Distributions & Channels

MORNSUN®

One-stop solutions of power supplies

ООО "СЭлКом" производственные поставки и пробные образцы. sale@radiodetali.com +7 (495) 204-13-84 многоканальный.





Компания Mornsun – популярный производитель качественных модульных источников питания (AC/DC- и DC/DC-преобразователей), а также ШИМ-контроллеров ИП и модулей защиты от помех.



AC/DC Enclosed Switching Power Supply • AC/DC Converter • DC/DC Converter • Transceiver Module Signal Conditioning Module • IGBT Driver • LED Driver • EMC Auxiliary Device











Product Catalogue 2021

MORNSUN is a one–stop power supplies solutions manufacturer. With 23 years of experience in the area of power supply design and manufacture, MORNSUN has released onto the global market 5000+ high–quality products including AC/DC converter, DC/DC converter, AC/DC enclosed switching power supply, transceiver module, signal conditioning module, IGBT driver, LED driver, EMC auxiliary device, etc. for different applications and industries, such as industrial automation, charging station, photovoltaic, telecommunications, medical, smart home, automotive industry, and more. Guided by the service principle of "trustworthiness", MORNSUN offers the best products, fast and local service, and efficient pre–sales and after–sales support for the clients worldwide.







- Established: 1998
- Factory: 60, 000+ square meters
- Employees: 3000+ R&D engineers: 500+
- Patents & IPRs: 1300+
- Subsidiaries: North America/Germany/India

One-stop solutions of power supplies

Professional Technology & Automated Manufacturing

360°

Professional

Support

- > 1000+ patents and IPRs: power circuit topology, transformer structures, assembling technology, etc.
- > Drafted 4 standards: NB/T 42093-2014, NB/T 10285-2019, <Photovoltaic Switching Power Supply> and <All-rounder DIY AC-DC Switching Power Supply>;
- > With 60000+ square meters manufacturing center, 34 SMT production lines, the production capacity is up to 121kk per year:
- > International standard pin-out and SMD package with convenient design and automatic manufacturing process.

One-stop Product Sourcing

- > The extensive product line, most of which are CE/UL/CSA approval, aims to provide more suitable products for different demands:

 On-board power supplies: AC/DC converter, DC/DC converter, EMC Auxiliary device, transceiver module, isolation amplifier, IGBT driver, power ICs, and transformers, etc.

 Off-board power supplies: AC/DC enclosed switching power supply, DIN-Rail
- > 10000+ power supply design and industry application cases.
- > Professional selection guide : 'Choose the product that works';
 - > Precise trading: Nearly 100% OTD and door-to-door delivery which reduce customers' cost and risks;
 - > 360° professional support: Fast response within 48hrs, routine visit, technical communication and discussion

Notes:

NB/T 42093-2014: Wide voltage input and regulated output isolated DC-DC model power supply NB/T 10285-2019: Fixed voltage input and unregulated output isolated DC-DC model power supply

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Headquarters in Guangzhou

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- 2020----Awarded "Top 500 Manufacturing enterprise in Guangdong Province" for 5 years in a row (2016-2020)
- 2020----Awarded "Top 10 Power Supply Product" for 9 years in a row (2012-2020)
- 2020----Awarded "Automation Product Innovation"
- 2020----Awarded "China IC Achievement Award for Power Management IC"
- 2019----Awarded Guangdong Province Power Supply Association "Innovative Technology Contribution Achievement"
- 2019----Awarded "China Innovative Top 500 IPR"
- 2018----Awarded "Best Employer of China" for 5 years in a row (2013-2018)
- 2017----Awarded "TOP 500 Manufacturing enterprise in Guangdong Province" for 2 years in a row(2016-2017)
- 2017----Awarded Sci-Tech Awards by CHINA POWER SUPPLY SOCIETY for 3 times in a row (2013 -2017, biennial event)
- 2017----Awarded "TOP 10 Power Supply Product" for 6 years in a row (2012-2017)
- 2017----Awarded "Guangdong Outstanding Export Enterprise 2017"
- 2017----Awarded "Intellectual Property Mayor award in Guanazhou"
- 2017----Established MORNSUN Power GmbH in Germany
- 2017----Awarded "IPR Demonstration Enterprises in Guangdong 2017"
- 2017----Acquired "Guangdong Provincial Enterprise Technology Center" approval
- 2017----Member of the Product Safety Standards Working Group (under Ministry of Industry and Information Technology) and of drafting compulsory GB4943.1 standard and amending IEC62368-1 draft

安全年龄年龄年龄年 安全

- 2017----High frequency switching DC power source awarded "Well-Known Product" in Guangdong (2014, 2017)
- 2016----Completed the certification of GB/T29490-2013 Enterprise IPR Management
- 2016----Awarded "Top 100 Innovative Enterprise in Guanadona"
- 2016----Awarded "To 20 Enterprise of Patent Creating in Development Zone" for 5 years in a row (2012-2016)
- 2016----Awarded "Guangdong Golden Award of Patent"
- 2015----Awarded "Guangdong Engineering Technology Research Center of Industrial Power Supply Module"
- 2015----Awarded "Well-Known Trademark" in Guangdong
- 2014----Purchased MORNSUN Guangzhou R&D center building
- 2013----Drafted Fixed voltage input and Unregulated output isolated DC-DC model power supply, standard number (pending): Energy 20130817
- 2012----Drafted Wide voltage input and regulated output isolated DC-DC model power supply, standard number NB/T 42039-2014, which goes into effect from Nov. 1 2014
- 2012----Ranked the top 18th of 100 most potential private companies by Forbes China
- 2012----Awarded "Most Satisfactory Employer of China 2012" under the Hi-Tech category
- 2011----Established MORNSUN Huaihua manufacturing center
- 2010----Moved to MORNSUN new headquarters building in Guangzhou Science City
- 2008----Established Subsidiary in the USA
- 2003----Awarded "High-tech Enterprise"
- 2001----Implemented informational management system
- 1998.07----Established MORNSUN in Guangzhou, China



Automatic SMT clean room Automatic workshop

Markings









Systems

IATF16949 ISO9001 ISO14001 OHSAS18001

Key to the Reliability

Power supply is the heart of industrial equipment, What customers concern most is not the price, the function or the efficiency, but the reliability of the power supply. In other words, it must not break down especially in various extreme situations.

It is easy to guarantee the function of the power supply, but not the reliability, particularly the reliability of the power supply under harsh conditions. The reliability can only be achieved by a perfect management system which consists of advanced research technology, high-quality raw material platform, advanced equipment, excellent manufacturing process management, specialized screening sequence on reliability and rich experience.

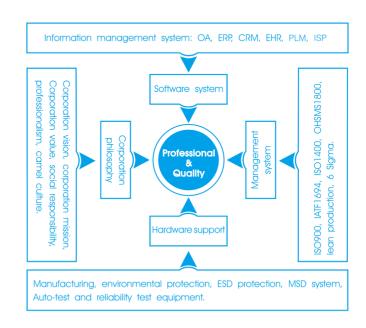
Meanwhile, the reliability of products depends on not only design and manufacturing but also customers' proper operation. Therefore, MORNSUN FAE team are ready to offer professional technical support to customers to enhance the reliability.

Therefore, improving the reliability of the products is not a simple task but a rather complex system.

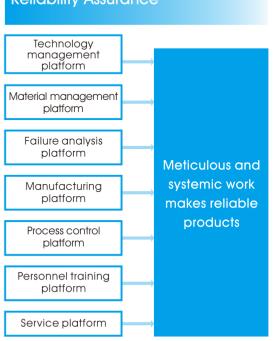
To meet customers demand and expectation, MORNSUN spends much time and money to improve the power supply reliability. In 2007, MORNSUN established the power supply reliability system and brought in 7 platforms to improve the reliability of MORNSUN products, including Technology management platform, Material management platform, Failure analysis platform, Manufacturing platform, Process control platform, Personnel training platform, Service platform. Thanks to these platforms, MORNSUN makes significant breakthroughs in all existing products and develops R3 DC-DC Converter with higher reliability and upgraded performance.

"No pain, no gain." The reliability can only be achieved by earnest, meticulous work, step by step, which is consistent with MORNSUN's Camel Culture. In conclusion, MORNSUN's meticulous and systemic work makes products reliable.

MORNSUN's TQA System **Architecture**



Reliability Assurance



AD/DC Enclosed Switching Power Supply



LM AD/DC Enclosed Switching Power Supply (Single Output)

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LM15-23Bxx	305rac	15W	85-305VAC/120-430VDC	3.3,5,12,15,24,48	Rohs Paris (€ ((()	25
LM25-23Bxx	305RAC	25W	85-305VAC/120-430VDC	3.3,5,12,15,24,48	RoHS : N'us (€ ((()	25
LM35-23Bxx	<i>305</i> RAC	35W	85-305VAC/120-430VDC	5,12,15,24	Rohs Paris (€ ((()	25
LM50-23Bxx	<i>305r</i> ac	50W	85-305VAC/120-430VDC	5,12,15,24,36,48	Rohs Paris (€ ((()	25
LM75-23Bxx	305rac	75W	85-305VAC/120-430VDC	5,12,15,24,36,48	Rohs Paris (€ ((()	25
LM100-23Bxx	<i>305</i> RAC	100W	85-305VAC/120-430VDC	5,12,15,24,36,48	Rohs Paris (€ ((()	25
LM150-23Bxx	305rac	150W	85-305VAC/120-430VDC	12,15,24,36,48	Rohs Paris (€ ((()	25
LM200-10B		200W	90-132VAC/180-264VAC	5,12,15,24,36,48	Rohs Paris (€ Cec	27
LM350-10B		350W	90-132VAC/180-264VAC	5,12,15,24,36,48	Rohs Paris (€ Cec	27
LM450-12B		450W	176-264VAC/240-373VDC	12,15,24,27,36,48	RoHS (€	27
LM600-12B		600W	176-264VAC/240-373VDC	12,15,24,27,36,48	RoHS (€	27

AD/DC Enclosed Switching Power Supply (With PFC Function, Single Output)

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LMF75-20Bxx		75W	85-264VAC/120-370VDC	5,12,15,24,48	RoHS : Nis (€ ((()	29
LMF100-23Bxx	<i>305</i> RAC	100W	85-305VAC/120-430VDC	12,15,24,48,55	RoHS c Nus (€ ((()	29
LMF150-23Bxx	<i>305</i> RAC	150W	85-305VAC/120-430VDC	12,15,24,48	RoHS : NIS (€ ((()	29
LMF200-23Bxx	<i>305r</i> ac	200W	85-305VAC/120-430VDC	5,12,15,24,48	RoHS (Rus (E (29
LMF320-23Bxx	<i>305</i> /RAC	320W	85-305VAC/120-430VDC	5,12,15,24,48	RoHS (C CC	29
LMF600-20Bxx		600W	85-264VAC/120-373VDC	12,24,36,48	RoHS (€ (Pending)	29
LMF1000-20Bxx		1000W	90-264VAC/120-390VDC	12,24,48	RoHS (€ (Pending)	29

AD/DC Enclosed Switching Power Supply (Multiple Outputs)

Series	Power	Input Voltage Range	No. of Outputs	Output Voltage(VDC)	Markings	Page
LM35-10C	35W	85-264VAC/120-373VDC	3	$+5/\pm12, +5/\pm15, +5/+24/+12$	RoHS (€	31
LM35-10D	35W	85-264VAC/120-373VDC	2	+5/+12,+5/+24	Rohs CALUS (E	31
LM50-10A	50W	85-264VAC/120-373VDC	2	±12	RoHS (€	31
LM50-10C	50W	85-264VAC/120-373VDC	3	$+5/\pm12, +5/\pm15, +5/+24/+12$	RoHS (€	31
LM50-10D	50W	85-264VAC/120-373VDC	2	+5/+12,+5/+24	RoHS (€	31
LM75-10C	75W	90-264VAC/120-373VDC	3	$+5/\pm12, +5/\pm15, +5/+24/+12$	RoHS (€	31
LM75-10D	75W	90-264VAC/120-373VDC	2	+5/+12,+5/+24	Rohs CRUS (E	31
LM100-10C	100W	90-264VAC/120-373VDC	3	$+5/\pm12, +5/\pm15, +5/+24/+12$	RoHS (€	31
LM100-10D	100W	90-264VAC/120-373VDC	2	+5/+24,+12/+24	RoHS (€	31

AD/DC Enclosed Switching Power Supply



LOF High Power Density Open Frame / Enclosed Switching Power Supply (With PFC Function)

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
L0F120-20Bxx(-C)	120W	85-264VAC/120-373VDC	12,15,24,27,36,48,54	Rohs (Sus (E	33
L0F225-20Bxx(-C)	Air cooling: 120W 13CFM: 225W	85-264VAC/120-373VDC	12,15,24,27,36,48,54	Rohs CNUS (E	33
LOF350-20Bxx(-C) Air (cooling:180-200W 20.5CFM: 300-351W	90-264VAC/127-373VDC	12,15,24,27,36,48,54	RoHS CNUS (€	33
L0F450-20Bxx(-C/-CF)	Air cooling: 250W 25CFM: 450W	90-264VAC/127-373VDC	12,15,24,27,36,48	RoHS c¶us (€ (Pending)	35
LOF550-20Bxx(-C/-CF)	Air cooling: 320W 25CFM: 550W	90-264VAC/127-373VDC	12,15,24,27,36,48	RoHS c¶us (€ (Pending)	35

[•] The products are stringently comply with medical standards, meets "2*MOPP" safety level, suitable for the applications of patient contact and patient auxiliary.

NX AD/DC Bus Power Supply

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
KNX20-22A640	20W	180-264VAC/254-370VDC	30	RoHS (€	36

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AD/DC DIN-Rail Power Supply



AD/DC Converter



Plastic DIN-Rail Power Supply LI-PR2 Series

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LI30-20BxxPR2	30W	85-264VAC/120-370VDC	5,12,15,24,48	Rohs call	37
LI60-20BxxPR2	60W	85-264VAC/120-370VDC	5,12,15,24,48	Rohs CALUS (€	37
LI100-20BxxPR2	100W	85-264VAC/120-370VDC	12,15,24,48	Rohs CALUS (€	37

Single-phase Metal DIN-Rail Power Supply (Without PFC Function) LI Series

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LI75-20BxxR2	75W	90-264VAC/120-373VDC	12,24,48	RoHS (€	38
LI120-20BxxR2S	120W	85-264VAC/120-370VDC	12,24,48	RoHS c Nus (€ (Pending)	38

Single-phase DIN-Rail Power Supply (With PFC Function) LIF Series

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LIF120-10BxxR2	120W	85-264VAC/100-370VDC	12,24,48	RoHS c Sus (€ (Pending)	39
LIF120-10BxxR2S-EX	120W	85-264VAC/100-370VDC	12,24,48	RoHS \mathfrak{P}° us (\mathfrak{E} ATEX IECEx (Pending)	39
LIF240-10BxxR2	240W	85-264VAC/100-370VDC	12,24,48	RoHS c Sus (€ (Pending)	39
LIF480-10BxxR2	480W	85-264VAC/100-370VDC	24,48	RoHS c Sus (€ (Pending)	39

LS DIY Type AD/DC Converter

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LS03-13BxxR3	305rac	3W	85-305VAC/70-430VDC	3.3,5,9,12,15,24	Rohs CM US (€	41
LS05-13BxxR3(-F)	<i>305</i> RAC	5W	85-305VAC/70-430VDC	3.3,5,9,12,15,24	RoHS CALUS (E	41
LS10-13BxxR3	305RAC	10W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS CALUS (E	41
LS10-13BxxR3P	305RAC	10W	85-305VAC/90-430VDC	3.3,5,9,12,15,24	RoHS CALUS (E	41
LS15-13BxxSS(-F)	305RAC	15W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS (Sus (E	41

Non-isolated DIY Type AD/DC Converter

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LS01-K3B05SS	305rac	1W	85-305VAC/70-430VDC	5	RoHS (€	43
LS03-K3B12SS	305RAC	3W	85-305VAC/70-430VDC	12	RoHS (€	43
LS05-K3BxxSS	305RAC	5W	85-305VAC/70-430VDC	5,12,24	RoHS (€	43

Single-wire DIY Type AD/DC Converter

Series	Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LSF01-K5BxxSS	1W	8(15)-380VDC	5.5, 12.5	RoHS (€	44

Compact Size Cost-effective AD/DC Converter

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LD03-23BxxR2	<i>305</i> rac	3W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS c Nus (€	45
LD05-23BxxR2	<i>305</i> RAC	5W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS c Nus (€	45
LD10-23BxxR2	305RAC	10W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS c Nus (€	45
LD15-23BxxR2	<i>305</i> RAC	15W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS c Nus (€	45
LD20-23BxxR2	<i>305</i> RAC	20W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS c Nus (€	45
LD30-23BxxR2	<i>305</i> RAC	30W	85-305VAC/100-430VDC	3.3,5,9,12,15,24,48	RoHS CRUS (E	45
LDE45-20B		45W	85-264VAC/100-370VDC	5,12,15,24,48	RoHS CALUS (E	45
LDE60-20B		60W	85-264VAC/100-370VDC	5,12,15,24,48	RoHS c Nus (E	45

Ultra-wide Input Voltage Cost-effective AD/DC Converter

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LD03-16B	Electric power	3W	90-528VAC/100-745VDC	3.3,5,9,12,15,24	RoHS CALUS (€	47
LD10-26B	Electric power	10W	90-528VAC/100-745VDC	3.3,5,9,12,15,24	RoHS (€	47
LD20-26B	Electric power	20W	90-528VAC/100-745VDC	3.3,5,9,12,15,24	RoHS : Nus (€	47

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AD/DC Converter



AD/DC Converter



LHE Multiple Outputs AD/DC Converter

Series	Power	Input Voltage Range	No. of Outputs	Output Voltage(VDC)	Markings	Page
LHE05-20Axxxx	5W	85-264VAC/100-370VDC	2	$\pm5,\pm12,\pm15$	RoHS	51
LHE05-20Cxxxx-xx	5W	85-264VAC/100-370VDC	3	$5/\pm 5, 5/\pm 12, 5/\pm 15$	RoHS	51
LHE05-20Dxxxx-xx	5W	85-264VAC/100-370VDC	2	5/5,5/12,5/15,5/24	RoHS	51
LHE10-20Axxxx	10W	85-264VAC/100-370VDC	2	$\pm5,\pm12,\pm15$	RoHS	51
LHE10-20Cxxxx-xx	10W	85-264VAC/100-370VDC	3	$5/\pm12,5/\pm15$	RoHS	51
LHE10-20Dxxxx-xx	10W	85-264VAC/100-370VDC	2	5/5,5/12,5/15,5/24	RoHS	51
LHE15-20Axxxx	15W	85-264VAC/100-370VDC	2	$\pm5,\pm12,\pm15$	RoHS	51
LHE15-20Cxxxx-xx	15W	85-264VAC/100-370VDC	3	$5/\pm 5, 5/\pm 12, 5/\pm 15$	RoHS	51
LHE15-20Dxxxx-xx	15W	85-264VAC/100-370VDC	2	5/5,5/12,5/24	RoHS	51
LHE20-20Axxxx	20W	85-264VAC/100-370VDC	2	$\pm 12, \pm 15$	RoHS	51
LHE20-20Cxxxx-xx	20W	85-264VAC/100-370VDC	3	$5/\pm12,5/\pm15$	RoHS	52
LHE20-20Dxxxx-xx	20W	85-264VAC/100-370VDC	2	5/5,5/12,5/15,5/24	RoHS	52

Single Output Cost-effective AD/DC Converter

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
L003-10Bxx		3W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	RoHS	49
L005-12Bxx		5W	165-264VAC/230-370VDC	3.3,5,9,12,15,24	RoHS	49
L010-13Bxx	305RAC	10W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	RoHS (€	49
L015-10Bxx		15W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	Rohs CALUS (E	49
L030-10Bxx		30W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	Rohs (Rus (E	49
L045-10Bxx		45W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	RoHS CRUS (E	49
L065-10Bxx		65W	85-264VAC/100-370VDC	5,9,12,15,24,48	Rohs CAL US (E	49

L0 Multiple Outputs Cost-effective AD/DC Converter

Series	Power	Input Voltage Range	No. of Outputs	Output Voltage(VDC)	Markings	Page
L030-10Axx	30W	85-264VAC/100-370VDC	2	$\pm 12, \pm 15$	RoHS (€	48
L030-10Dxxxx-xx	30W	85-264VAC/100-370VDC	2	5/5,5/12,5/24	RoHS (€	48
LO45-10Cxxxx-xx	45W	85-264VAC/100-370VDC	3	$\pm 5/12,5/\pm 12,5/\pm 15$	RoHS (€	48

KM Contactor Control Module

Series	Apparent Power	Control Voltage Range	Rated Operating Current	No-load Switch Frequency	Markings	Page
KM95-C0-0	6.5VA	90-275 VAC/VDC	95A	3600 times / H	RoHS	61
KM115-C0-0	6.5VA	75-305 VAC/VDC	115A	3600 times / H	RoHS	61

Electric Power Open Frame AD/DC Converter Specialized for Electric Power

Series		Power	Input Voltage Range	No. of Outputs	Output Voltage(VDC)	Markings	Page
L015-23BxxE	Electric power	15W	85-305VAC/88-430VDC	1	3.3,5,12,15,24	RoHS (€	53
L030-23BxxE	Electric power	30W	85-305VAC/88-430VDC	1	3.3,5,12,15,24	RoHS C€	53
L050-23BxxE	Electric power	50W	85-305VAC/88-430VDC	1	3.3,5,9,12,15,24,27,48	RoHS (€	53
L075-20BxxE	Electric power	75W	85-264VAC/88-370VDC	1	3.3,5,9,12,15,24,27,48	RoHS (€	53
L010-26Dxxxx-xxL	Electric power	10W	57-528VAC/80-745VDC	2	5.1/12	RoHS	53
L015-26Dxxxx-xx	Electric power	15W	57-528VAC/80-745VDC	2	12/12,13.5/5	RoHS	53
L020-26Dxxxx-xx	Electric power	20W	165-480VAC/230-680VDC	2	12.15/12	RoHS	55
L020-10Cxxxx-xx	Electric power	20W	85-264VAC/100-370VDC	3	5/+12/-12	RoHS	55
L030-10Cxxxx-xx	Electric power	30W	85-264VAC/100-370VDC	3	5/+12/-12	RoHS	55
L010-24BxxK	Electric power	6W	30-280VAC/30-400VDC	1	5,12,13	RoHS	55

Medical AD/DC Converter Specialized for Medical

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
LD05-20BxxMU	Medical	5W	85-264VAC/100-370VDC	5,12,15,24	RoHS (C C	57
LH15-20BxxMU	Medical	15W	85-264VAC/100-370VDC	5,12,15,18,24	RoHS CALUS (E	57
LH25-20BxxMU	Medical	20W	85-264VAC/100-370VDC	5,12,15,18,24	RoHS CALUS (E	57
L045-20BxxMU	Medical	45W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,36,48	RoHS c¶ (€ (Pending)	57
L065-20BxxMU	Medical	65W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,36,48	RoHS c Nus (€ (Pending)	57

Mining Industry Ultra-wide, Ultra-high Input Voltage AD/DC Converter for Mining Industry

Series		Power	Input Voltage Range	Output Voltage(VDC)	Markings	Page
PVA40-26B	Mining	40W	460-1500VAC	12,28,35	RoHS	59
PVA40-27B	Mining	40W	85-900VAC	18,24,30	RoHS	59
PVA70-27B	Mining	70W	85-900VAC	24,28,35	RoHS	59
PVA120-27B	Mining	120W	85-900VAC	28,35	RoHS	59
PVA120-27B-C	Mining	120W	85-900VAC	35	RoHS	59
PVA150-27B	Mining	150W	85-850VAC	24,28,35	RoHS	59

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DC/DC Converter

Fixed Input Voltage



DC/DC Converter



Fixed Input Voltage DFN Package, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
B_MT-1WR4	1 W	5	5	3000	RoHS cMus (€	62
D_T-1WR4	1 W	5	5/5	3000	RoHS CRUS (E	62
E_T-1WR4	1 W	5	±5	3000	RoHS c Nus (€	62
FB_T-1WR4	1 W	5	5	4200	RoHS CRUS (E	62

SMD Package, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
A_XT-1WR3	1 W	5,12,15,24	±5,±9,±12,±15,±24	1500	RoHS ENUS (€	63
B_XT-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500	RoHS : Nus (€	63
E_XT-1WR3	1 W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000	RoHS : Nus (€	63
F_XT-1WR3	1 W	5,12,15,24	3.3,5,9,12,15,24	3000	RoHS : Nus (€	63
FB0505XT-1WR3	1W	5	5	4200	RoHS	63
B_XT-2WR3	2W	12,24	5,12,15,24	1500	RoHS (€	64
F_XT-2WR3	2W	12,24	5,12,15,24	3000	RoHS (€	64

Fixed Input Voltage SIP Package, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
A_S-1WR3	1W	5,9,12,15,24 ± 3.3	$,\pm 5,\pm 9,\pm 12,\pm 15,\pm 24$	1500	RoHS c Sus (€	65
B_S-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500	RoHS CRUS (E	65
B_LS-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500	RoHS CRUS (E	65
E_S-1WR3	1W	5,12,15,24 ±3.3	$,\pm 5,\pm 9,\pm 12,\pm 15,\pm 24$	3000	RoHS CRUS (E	65
F_S-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	3000	RoHS c Nus (€	66
G_S-1WR2 Medical	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000	RoHS CRUS (E	67
H_S-1WR2 Medical	1W	5,12,15,24	5,12,15	6000	RoHS CRUS (E	67
A_S-2WR3	2W	12,24	$\pm3.3, \pm5, \pm12, \pm15$	1500	RoHS CRUS (E	68
B_S-2WR3	2W	12,24	5,12,15,24	1500	RoHS CRUS (E	68
E_S-2WR3	2W	12,24	$\pm 3.3, \pm 5, \pm 12, \pm 15$	3000	RoHS CNUS (€	68
F_S-2WR3	2W	12,24	5,12,15,24	3000	RoHS CRUS (€	68
G_S-2WR2 Medical	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000	RoHS : Nus (€	67
H_S-2WR2 Medical	2W	5,12,15,24	5,12,15	6000	RoHS : Nus (€	67
B_S-3WR2	3W	5,12	5,9,12	1500	RoHS : N'us (E	68
F S-3WR2	3W	5,12,15	5,9,12,15	3000	RoHS (Nus (E	68

Fixed Input Voltage DIP Package, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
A_D-1WR2	1 W	5,12,15,24	\pm 5, \pm 9, \pm 12, \pm 15, \pm 24	1500	RoHS	69
B_D-1WR3	1 W	12,15,24	3.3,5,9,12,15,24	1500	RoHS CRUS (E	69
E_D-1WR3	1 W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	3000	RoHS (€	69
F_D-1WR2	1W	5,12,15,24	3.3,5,12,15	3000	RoHS c Nus (€	69

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Fixed Input Voltage DIP Package, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
F_N-1WR3	1W	5,12,24	3.3,5,7.2,9,12,15,24	3000	RoHS CRUS (E	70
A_D-2WR2	2W	5,12,15,24	$\pm5, \pm9, \pm12, \pm15, \pm24$	1500	RoHS c Lus (€	71
B_D-2WR2	2W	3.3,5,9,12,24	3.3,5,9,12,15,24	1500	RoHS CRUS (€	71
E_D-2WR3	2W	12,24	$\pm3.3, \pm5, \pm12, \pm15$	3000	Rohs CRUS (E	71
F_D-2WR2	2W	5,12,15,24	5,9,12,15,24	3000	RoHS CRUS (E	71

Fixed Input Voltage Isolated & Regulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
IB_XT-W75R3	0.75W	5,12	3.3,5,9,12,15	1500	RoHS (€	73
IB_S-W75R3	0.75W	5,12,24	3.3,5,9,12,15	1500	RoHS (€	73
IB_XT-1WR2	1 W	5,12,24	3.3,5,12,15	1500	RoHS (€	73
IB_LS-1WR3	1 W	5,12,15,24	3.3,5,9,12,15,24	1500	RoHS C Nus (E	73
IF_XT-1WR3	1 W	5,12,24	3.3,5,9,12,15	3000	RoHS (€	73
IF_S-1WR3	1 W	5,12,15,24	3.3,5,9,12,15	3000	RoHS CRUS (E	74
IE_KS-1WR3	1 W	5	$\pm 5, \pm 9, \pm 12, \pm 15$	3000	RoHS (€	73

Wide Input Voltage Open Frame Package, Cost-effective, Isolated & Regulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
VCB_SO-3WR3	3W	36-75	5,12,15,24	1500	RoHS (€	75
VCB_SO-6WR3	6W	36-75	5,12,15,24	1500	RoHS (€	75
VCB_SB0-10WR3	10W	36-75	5,12,15,24	1500	RoHS (€	75
VCB_SB0-20WR3	20W	36-75	3.3,5,12,15,24,28	1500	RoHS	75
VCB_SBO-30WR3	30W	36-75	5,12,15,24	1500	RoHS	75
VCB_EBO-100WR3	100W	36-75	5,12,15,24,28	1500	RoHS	75
VCB_QB0-200WR3	200W	36-75	5,12,15,24	1500	RoHS	75
VCF_QBO-400W(F/H)R3	400W	36-75	12,15,24,28	2250	RoHS	75

Wide Input Voltage Compact Size DIP/SMD Package, Isolated & Regulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
WRA_SD/T-1WR2	1 W	9-18,18-36	$\pm 5, \pm 9, \pm 12, \pm 15$	1500	RoHS (€	77
WRB_SD/T-1WR2	1W	9-18,18-36	3.3,5,12,15,24	1500	RoHS (€	77
WRA_SD/T-3WR2	3W	9-18,18-36	$\pm 5, \pm 9, \pm 12, \pm 15$	1500	RoHS (€	77
WRB_SD/T-3WR2	3W	9-18,18-36	3.3,5,12,15,24	1500	RoHS (€	77
U/VRB-J(M)D/T-3W	3W	4.5-9,9-36	3.3,5,12,15,24	1500	RoHS (€	78
URB_MT-3WR3	3W	9-36,18-75	3.3,5,9,12,15,24	1500	RoHS CRUS (E	82
VRB_J(M)D/T-6W	6W	9-18,18-36	5,12,15	1500	Rohs CRUS (E	79
URB_J(M)D/T-10W	10W	9-36	5,12,15	1500	RoHS CRUS (E	80
URB_J(M)D/T-15W	15W	9-36,18-75	3.3,5,12,15	1500	RoHS (€	81

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DC/DC Converter



DC/DC Converter





SIP Package, Isolated & Regulated Output Series Wide Input Voltage

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
WRA_S-1WR2	1W	4.5-9,9-18,18-36,36-75	$\pm 5, \pm 9, \pm 12, \pm 15$	1500	RoHS (€	83
WRB_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500	RoHS (€	83
WRE_S-1WR2	1W	4.5-9,9-18,18-36,36-75	\pm 5, \pm 12, \pm 15	3000	RoHS (€	83
WRF_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000	RoHS (€	83
WRA_S-3WR2	3W	4.5-9,9-18,18-36,36-75	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	84
WRB_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,6,9,12,15,24	1500	RoHS (€	84
WRE_S-3WR2	3W	4.5-9,9-18,18-36,36-75	$\pm 5, \pm 9, \pm 12, \pm 15$	3000	RoHS (€	84
WRF_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000	RoHS (€	84
URD_S-3WR3	3W	18-75	5/5,5/12,5/24	3000	RoHS (€	83
VRB_S-6WR3	6W	9-18,18-36	3.3,5,9,12,15,24	1600	RoHS (€	85
URA_S-6WR3	6W	9-36	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	85
URB_S-6WR3	6W	9-36	3.3,5,9,12,15,24	1600	RoHS (€	85
VRB_S-10WR3	10W	9-18,18-36	3.3,5,9,12,15,24	1500	RoHS (€	85
URB_S-10WR3	10W	9-36	3.3,5,9,12,15,24	1500	RoHS (€	85

Wide Input Voltage DIP Package, Isolated & Regulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
WRA_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	87
WRB_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500	RoHS (€	87
WRE_P-3WR2	3W	4.5-9,9-18,18-36,36-75	$\pm3.3, \pm5, \pm9, \pm12, \pm15$	3000	RoHS (€	89
WRF_P-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	3000	RoHS (€	89
PWB_ZP-3WR2	3W	9-36,18-75	3.3,5,9,12,15,24	1500	RoHS (€	86
VRA_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	$\pm5, \pm12, \pm15, \pm24$	1500	RoHS (€	87
VRB_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	1500	RoHS (€	87
VRA_YMD-6WR3	6W	9-18,18-36	$\pm5,\pm12,\pm15$	1500	RoHS c Mus (€	91
VRB_YMD-6WR3	6W	9-18,18-36,36-75	3.3,5,9,12,15,24	1500	RoHS (€	91
URA_ZP-6WR3	6W	9-36,18-75	$\pm5,\pm9,\pm12,\pm15,\pm24$	1500	RoHS c Mus (€	88
URB_ZP-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500	Rohs call	88
URA_YMD-6WR3	6W	9-36,18-75	$\pm 5, \pm 12, \pm 15, \pm 24$	1500	Rohs on (6	91
URB_YMD-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500	Rohs on (6	91
URE_P-6WR3	6W	9-36	$\pm 5, \pm 12, \pm 15$	3000	Rohs on (6	89
URF_P-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	3000	Rohs on (6	89
URH_P-6WR3 Medical	6W	9-36,18-75	5,6,9,12,15,24	6000	RoHS (€	90
VRA_ZP-10WR3	10W	9-18,18-36,36-75	$\pm5,\pm12,\pm15$	1500	RoHS (€	88
VRB_ZP-10WR3	10W	9-18,18-36,36-75	3.3,5,12,15,24	1500	RoHS (€	88
VRA_YMD-10WR3	10W	4.5-9	$\pm5, \pm12, \pm15, \pm24$	1500	RoHS (€	91
VRB_YMD-10WR3	10W	9-18,18-36,36-75	3.3,5,12,15,24	1500	RoHS (€	91
URA_ZP-10WR3	10W	9-36,18-75	$\pm 5, \pm 12, \pm 15$	1500	RoHS (€	88
URB_ZP-10WR3	10W	9-36,18-75	3.3,5,12,15,24	1500	RoHS (€	88
URA_YMD-10WR3	10W	9-36,18-75	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500	Rohs call	92
URB_YMD-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	1500	RoHS c Lus (€	92

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Wide Input Voltage DIP Package, Isolated & Regulated Output Series

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Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page			
URD_YMD-10WR3	10W	18-75	5/5,5/12,5/24	1500	RoHS (€	96			
URE_LP-10WR3	10W	9-36,18-75	$\pm 5, \pm 12, \pm 15$	3000	Rohs call	95			
URF_LP-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	3000	RoHS c Nus (€	95			
VRB_LD-15WR3	15W	18-36,36-75	3.3,5,12,15,24	1500	RoHS CNUS (€	97			
VRB_YMD-15WR3	15W	9-18,18-36,36-75	3.3,5,12,15,24	1500	RoHS (€	93			
URA_YMD-15WR3	15W	9-36,18-75	$\pm 5, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	93			
URB_YMD-15WR3	15W	9-36,18-75	3.3,5,12,15,24	1500	RoHS c Nus (E	93			
VRA_LD-20WR3	20W	9-18,18-36,36-75	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	97			
VRB_LD-20WR3	20W	9-18,18-36,36-75	3.3,5,9,12,15,24,110	1500	RoHS (€	97			
VRB_YMD-20WR3	20W	9-18,18-36,36-75	3.3,5,12,15,24	1500	RoHS (€	93			
URA_YMD-20WR3	20W	9-36,18-75	$\pm 5, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	93			
URB_YMD-20WR3	20W	9-36,18-75	3.3,5,12,15,24	1500	RoHS (Rus (E	93			
URA_LD-20WR3	20W	9-36,18-75	$\pm 5, \pm 9, \pm 12, \pm 15$	1500	RoHS (Sus (E	97			
URB_LD-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	1500	RoHS c Nus (€	97			
URD_LD-20WR3	20W	18-75	5/5,5/12,5/24	1500	RoHS (€	96			
URF_LP-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	3000	RoHS c Nus (6	95			
URH_LP-20WR3 Medical	20W	9-36,18-75	3.3,5,12,15,24	5000VAC	RoHS (€ (Pending)	90			
VRB_LD-30WR3	30W	18-36,36-75	3.3,5,9,12,15,24	1500	RoHS (€	97			
URA_YMD-30WR3	30W	18-75	$\pm 12, \pm 15, \pm 24$	1500	RoHS (€	94			
URB_YMD-30WR3	30W	18-75	5,12,15,24	1500	RoHS	94			
URA_LD-30WR3	30W	9-36,18-75	$\pm 5, \pm 12, \pm 15, \pm 24$	1500	RoHS (€	98			
URB_LD-30WR3	30W	9-36,18-75	3.3,5,9,12,15,24	1500	RoHS (Sus (E	98			
URD_D-30WR3	30W	18-75	5/24	3000VAC	RoHS (€	96			
VRB_LD-40WHR3	40W	18-36,36-75	5,12,15,24	1500	RoHS (€	98			
URF_QB-75WR3	75W	18-75	5,12,15,24,48	2250	RoHS (€	99			
URF_QB-100WR3	100W	9-36,18-75	5,12,15,24,28,48	2250	RoHS (€	99			
URF_QB-150WR3	150W	18-75	5,12,15,24,48	2250	RoHS (€	99			
URF_QB-200WR3	200W	18-75	5,12,15,24,48	2250	RoHS (€	99			
VRB HB-350WR3	350W	20-36	12,24,28,32	1500	RoHS (€	99			

High Output Voltage, Non-isolated & Regulated Output Series **High Output Voltage**

Series	Power	Input Voltage Range (VDC)	Maximum Output Voltage (VDC)	Output Voltage Range (VDC)	Output Current (mA)	Markings	Page
H01-P(N)1251V-0.5C(F)	0.625W	12,24	+1250/-1250	0 to $+1250 / 0$ to -1250	0.5	RoHS	101
H01-P(N)1251S-0.5C	0.625W	12	+1250/-1250	0 to $+1250 / 0$ to -1250	0.5	RoHS	101
H01-P(N)1201-0.6B	0.72W	5	+1200/-1200	0 to $+1200 / 0$ to -1200	0.6	RoHS	101
H01-P(N)1251H-1B	0.75W	5	+1250/-1250	0 to -1250,0 to $+1250$	1	RoHS (€	101
H01-P(N)1251H-0.5C(D/F)	0.75W	12,15,24	+1250/-1250	0 to $+1250 / 0$ to -1250	0.5	RoHS	101
H01-P(N)1501H-0.5C(D)	0.75W	12,15	+1500/-1500	0 to $+1500 / 0$ to -1500	0.5	RoHS	101
H01-P601-2C	1.2W	12	+600	0 to +600	2	RoHS	101
H01-P401V-5C	2W	12	+400	0 to +400	5	RoHS	101
H01-P102-10F	10W	24	+1000	0 to + 1000	10	RoHS	101
H01-P102-30F	30W	24	+1000	0 to + 1000	30	RoHS	101
H01-P102-20D	40W	16	+1000	0 to + 1000	20	RoHS	101
H01-P202-20D	40W	16	+2000	0 to + 2000	20	RoHS	101

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DC/DC Converter



DC/DC Converter





Ultra-wide Input Voltage

Isolated & Regulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
UWE_S-1WR3	1W	4.5-36	$\pm 5, \pm 12, \pm 15$	3000	RoHS (€	100
UWF_S-1WR3	1W	4.5-36	5,12,15	3000	RoHS (€	100
UWE_S-3WR3	3W	4.5-36	$\pm 5, \pm 12, \pm 15$	3000	RoHS (€	100
UWF_S-3WR3	3W	4.5-36	5,12,15	3000	RoHS (€	100

Ultra-wide, Ultra-high Input Voltage

Isolated & Regulated Output Series

Series		Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
PV05/10/15-27BxxR2	Energy	5W,10W,15W	100-1000	5,9,12,15,24	4000	RoHS (€	103
PV10-27C	Energy	10W	200-1200	5/5/24	4000	RoHS	103
PV15-29BxxL	Energy	10W,15W	200-1500	5,12,15,24	4000	RoHS	105
PV15-29C	Energy	15W	200-1500	5/5/5,5/5/24	4000	RoHS	105
PV15-29BxxR3	Energy	15W	200-1500	5,12,15,24	4000	RoHS c Nus (€ (Per	ding) 105
PV15-27BxxR3	Energy	15W	100-1000	12,15,24	4000	RoHS (€	105
PV40-29B	Energy	40W	200-1500	12,15,24,17,28	4000	RoHS c Nus (E . 6	105
PV40-27B	Energy	40W	200-1200	12,15,24	4000	RoHS	103
PV45-29D	Energy	45W	150-1500	15/8,15/5,15/15	4000	RoHS	105
PV50-29D	Energy	50W	150-1500	15/15	4000	RoHS	105
PV50-25B	Energy	50W	120/80 - 750	12,24	4000	RoHS	107
PV60-27D	Energy	60W	200-1100	12/15	4000	RoHS	103
PV75-36D	Energy	75W	250-3300	15,400	6000	RoHS	107
PV120-27B	Energy	90W,100W,120W	200-1100	12,15,24,26,28,48	4000	RoHS	103
PV150-29B	Energy	120W,150W	250-1500	12,15,24,28,32,48	4000	RoHS (€ ∰ (Pend	ing) 105
PV200-29B	Energy	200W	300-1500	24,32,48	4000	RoHS (€ ®	105
PV200-27B	Energy	120W,150W,200V	V 200-1000	12,15,24,26,48	4000	RoHS (€	103

Charging

Ultra-wide Input Voltage, Specialized for Super-capacitor and Lithium Battery-powed (Bidirectional Charging Power Supply)

Series		Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
URF2428LP-700	Electric power	9-36	0-28.5	1500	RoHS	108
URB24A5YMD-1000-	CL Electric power	9-36	0-5.06	1500	RoHS	108

Automotive

Wide Input Voltage, Specialized for Automotive Industry, Isolated & Regulated Output Series

Series		Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
CWRF_S-3W	Automotive	3W	7-18	15	4300VDC	RoHS (€	109
CUWF_J(Y)T-3WR3	Automotive	3W	6-42	5,12,15,24	3000VAC	RoHS (€	109
CVRC_JD-6WR3	Automotive	6W	9-18	15/15/15	3000VDC	RoHS (€	109
CUWF_J(Y)T-6WR3	Automotive	6W	6-42	5,12,15,24	3000VAC	RoHS (€	109
CUWB_YMD-6WR3	Automotive	6W	4.5-36	3.3,5,12,15,24	1500VDC	RoHS (€	110
CUWF1215YMD-8WR3	Automotive	8W	4.5-36	15	2600VAC	RoHS (€	110

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Automotive Fixed Input Voltage, Specialized for Automotive Industry, Isolated & Unregulated Output Series

Series	Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
CF0505XT-1WR3 Automotive	1 W	5	5	3500	RoHS (€	108
CFB0505XT-1WR3 Automotive	1W	5	5	4200	RoHS (€	108

Railway Wide Input Voltage, Specialized for Railway Industry, Isolated & Regulated Output Series

Series		Power	Input Voltage(VDC)	Output Voltage(VDC)	Isolation (VDC)	Markings	Page
URA1D_YMD-6WR3	Railway	6W	40-160	$\pm 5, \pm 12, \pm 15$	2250VDC	RoHS (€	111
URB1D_YMD-6WR3	Railway	6W	40-160	5,12,15,24	2250VDC	RoHS (€	111
URA1D_(X)LMD-10WR3	Railway	10W	40-160	$\pm 5, \pm 12, \pm 15$	2250VDC	RoHS (€	111
URB1D_LMD-10WR3	Railway	10W	40-160	3.3,5,12,15,24	2250VDC	RoHS (€	111
URB1D_LMD-15WR3	Railway	15W	40-160	3.3,5,12,15,24	2250VDC	RoHS (€	111
URB1D_LMD-20WR3	Railway	20W	40-160	3.3,5,12,15,24	2250VDC	RoHS (€	111
URB1D_LD-20WR3	Railway	20W	40-160	3.3,5,12,15,24	2250VDC	RoHS (€	111
URE1D_LD-20WR3	Railway	20W	40-160	$\pm 12, \pm 15, \pm 24$	3000VDC	RoHS	111
URF1D_LD-40WR3	Railway	40W	40-160	3.3,5,12,15,24,48	3000VDC	RoHS (€	112
UWTH1D_QB-50WR3	Railway	50W	14-160	3,5,12,15,24,48,54	3000VAC	RoHS	112
URF1D_QB-50WR3	Railway	50W	43-160	3.3,5,12,15,24,48	3000VAC	RoHS (€	113
URF1D_QB-75WR3	Railway	75W	43-160	3.3,5,12,15,24,48	3000VAC	RoHS (€	113
URF1D_QB-100WR3	Railway	100W	43-160	3.3,5,12,15,24,48	3000VAC	RoHS (€	113
UWTH1D_QB-100WR3	Railway	100W	14-160	12,15,24,28,48,54	3000VAC	RoHS	113
UWTH1D_HB-100WR3	Railway	100W	14-160	12,24,28,48,54	3000VAC	RoHS	113
URF1D_HB-150WR3	Railway	150W	43-160	5,12,15,24,48	3000VAC	RoHS	113
UWTH1D_HB-200W(H)R3	3 Railway	200W	14-160	12,24,28,48,54	3000VAC	RoHS	113
URF1D_HB-250WR3	Railway	250W	40-160	5,12,15,24,48,54	3000VAC	RoHS	113
URF1D FB-400W(H)R3	Railway	400W	66-160	5,9,12,15,24,28,48,54	3000VAC	RoHS	113

Non-isolated Wide Input Voltage, Non-isolated & Regulated Output Series

Series	Input Voltage(VDC)	Output Voltage(VDC)	Output Current (mA)	Markings	Page
K78U24-300R3(L)	36-90	24	300	RoHS (€	115
K78U-500R3(L)	9-90	3.3,5,6.5,9,12,15	500	RoHS (€	115
K78_MT-500R4	4.5-36	$\pm3.3, \pm5, \pm6.5, \pm9, \pm12, \pm15$	500	RoHS (€	115
K78_MT-1000R4	4.75-36	$\pm3.3, \pm5, \pm6.5, \pm9, \pm12, \pm15$	1000	RoHS	115
K78-500R3	4.75-36	3.3,5,9,12,15,-5,-12,-15	500/-300/-150	RoHS CALUS (€	115
K78-JT-500R3	4.75-36	3.3,5,9,12,15	500	RoHS (€	115
K78T-500R3	4.75-36	1.5,1.8,2.5,3.3,5,6.5,9,12,15	500	RoHS (€	115
K78T-1000R3	4.75-36	1.5,1.8,2.5,3.3,5,6.5,9,12	1000/800	RoHS (€	117
K78-1000R3(L)	6-36	3.3,5,9,12,15,-5,-12,-15	1000/-500/-300	RoHS c Nus (€	117
K78_M-1000R3	6-36	3.3,5,9,12,15,-5,-12,-15	1000/-500/-300	RoHS (€	117
K78-2000R3	6-36	3.3,5,9,12,15	2000	RoHS (€	117
K78Lxx-500R3	6-36	5,12,15	500/-150/-300	RoHS CRUS (E	117
K78Lxx-1000R3	6-36	3,5,12,15	1000/-500/-300	RoHS c Nus (€	117
K78(L)xx-3AR3	8-36	5,6.5,12,15	3000	RoHS	117
K12T-6A-P(N)	8.3-14	0.75-5.5	6000	RoHS (€	119
K12T-10A/16A	8.3-14	0.75-5.5	10000/16000	RoHS (€	119
KUB4824QB-10A	30-75	24	10000	RoHS (€	120
KUB4812QB-10A	16-75	12	10000	RoHS (€	120

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Industrial Bus Isolated Transceiver Module



Industrial Bus Isolatied Transceiver Module



CAN

CAN Bus Isolated Transceiver Module

Series	Package	Integrated Power Supply or Not	Product Type	Communicati Charecteristic	indiii vollade	Baud Rate	Nodes	Markings	Page
TDA51SCANHC	SOIC	YES	Single channel high-rate	CAN	4.5-5.5VDC	1Mbps	110	RoHS	121
TD041SCANH	DFN	NO	Single channel high-rate	CAN	2.375-5.5,4.75-5.25VDC	40k-1Mbps	110	RoHS	121
TD041SCANFD	DFN	NO	Single channel high-rate	CANFD	2.375-5.5,4.5-5.5VDC	40k-5Mbps	110	RoHS	121
TD(H)541SCANH	DFN	YES	Single channel high-rate	CAN	4.75-5.25VDC	40k-1Mbps	110	RoHS	121
TD(H)541SCANFD	DFN	YES	Single channel high-rate	CANFD	4.75-5.25VDC	40k-5Mbps	110	RoHS	121
TD331/531SCANH	SMD	YES	Single channel high-rate	CAN	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS (€	121
TD331/531SCANFD	SMD	YES	Single channel general	071111	3.15-3.45,4.75-5.25VDC	40k-5Mbps	110	RoHS (€	121
CTD331/531SCANH	SMD	YES	Automotive grade single channel high-rate	CAN	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS (€	121
TD321/521SCAN	SMD	YES	Single channel general	CAN	3.15-3.45,4.75-5.25VDC	5k-1Mbps	110	RoHS (€	121
TD321/521SCANH	SMD	YES	Single channel high-rate	CAN	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS (€	121
TD322/522DCAN	DIP	YES	Dual channels general	CAN	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS (€	121
TD301/501DCANHE	DIP	YES Single	channel high surge protective	CAN	3.15-3.45,4.75-5.25VDC	20k-1Mbps	110	RoHS (€	121
TD301/501DCANH-\	W DIP	YES Sin	gle channel wake-up high-rate	CAN	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS	121

RS-485 Bus Isolated Transceiver Module

Series	Package	Integrated Pow Supply or No		Communication Charecteristics	inniii voitane	Baud Rate	Nodes	Markings	Page
TD041S485H	DFN	NO	High-rate half-duple	x 485	2.375-5.5,4.5-5.5VDC	1Mbps	256	RoHS	123
TD(H)541S485H	DFN	YES	High-rate half-duple	x 485	4.75-5.25VDC	1Mbps	256	RoHS	123
TD041S485S-F	DFN	NO	Full-duple	× 485	2.375-5.5,4.5-5.5VDC	20Mbps	256	RoHS	123
TD(H)541S485S-F	DFN	YES	Full-duple	× 485	4.75-5.25VDC	20Mbps	256	RoHS	123
TD041S485H-A	DFN	NO	Automatic send/receiv	e 485	2.375-5.5,4.5-5.5VDC	500kbps	256	RoHS	123
TD(H)541S485H-A	DFN	YES	Automatic send/receiv	e 485	4.75-5.25VDC	500kbps	256	RoHS	123
TD041S485S	DFN	NO	Utral-high rate half-duple	x 485	2.375-5.5,4.5-5.5VDC	20Mbps	256	RoHS	123
TD(H)541S485S	DFN	YES	Utral-high rate half-duple	× 485	4.75-5.25VDC	20Mbps	256	RoHS	123
TD331/531S485	SMD	YES	General half-duple	x 485 3	3.15-3.45,4.75-5.25VDC	19.2kbps	64	RoHS (€	125
TD331/531S485-L	SMD	YESLow	power consumption half-duple	× 485 3	3.15-3.45,4.75-5.25VDC	19.2kbps	16	RoHS (€	125
TD331/531S485H	SMD	YES	High-rate half-duple	x 485 3	3.15-3.45,4.75-5.25VDC	150kbps	128	RoHS (€	125
TD331/531S485H-A	SMD	YES	Automatic send/receiv	e 485 3	3.15-3.45,4.75-5.25VDC	150kbps	128	RoHS (€	125
TD331/531S485H-E	SMD	YES	High-rate enhanced half-duple	x 485 3	3.15-3.45,4.75-5.25VDC	500kbps	256	RoHS (€	125
TD322/522D485H-A	DIP	YES T	Two-way automatic send/receiv	e 485 3	3.15-3.45,4.75-5.25VDC	120kbps	32	RoHS (€	125
TD321/521S485	SMD	YES	General half-duple	x 485 3	3.15-3.45,4.75-5.25VDC	19.2kbps	64	RoHS (€	125
TD321/521S485H	SMD	YES	High-rate half-duple	× 485	3.15-3.45,4.75-5.25VDC	200kbps	64	RoHS (€	125
TD321/521S485H-A	SMD	YES	Automatic send/receiv	e 485 3	3.15-3.45,4.75-5.25VDC	500kbps	128	RoHS (€	125
TD321/521S485H-E	SMD	YES	High-rate enhanced half-duple	× 485	3.15-3.45,4.75-5.25VDC	500kbps	256	RoHS (€	125
TD301/501M485	DIP	YES Hig	h-rate compact size half-duple	× 485	3.15-3.45,4.75-5.25VDC	500kbps	64	RoHS (€	125

RS-232 Bus Isolated Transceiver Module

Series	Package ^I	Integrated Power Supply or Not	Product Type	Communicatio Charecteristics	Inniit voitane	Baud Rate	Nodes	Markings	Page
TD041S232H	DFN	NO	Single channel high-rate	232	2.375-5.5,4.5-5.5VDC	120kbps	1	RoHS	127
TD(H)541S232H	DFN	YES	Single channel high-rate	232	4.5-5.5VDC	120kbps	1	RoHS	127
TD331/531S232H	SMD	YES	Single channel high-rate	232	3.15-3.45,4.75-5.25VDC	0-115.2kbps	1	RoHS (€	127
TD302/502D232H	SMD	YES	Dual channels high-rate	232	3.0-3.6,4.5-5.5VDC	0-115.2kbps	2	RoHS	127

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Digital Signal Digital Isolators

Series	Product Type	Integrated Power Supply or Not	Communication Charecteristics	Isolation (VAC)	Input Voltage (VDC)	Baud Rate	Operating Temperature	Package	Markings	Page
TDA51S-41HC	Quad channels high-rate	YES	Digital signal	5000	3.0-5.25	150Mbps	-40 to125℃	DFN	RoHS	131
TD541S-4xH5	Quad channels high-rate	YES	Digital signal	3750	4.75-5.25	150Mbps	-40 to125℃	DFN	RoHS	131
TD541S-4xL5	Quad channels high-rate	YES	Digital signal	3750	4.75-5.25	150Mbps	-40 to125℃	DFN	RoHS	131
TD541S-4xH3	Quad channels high-rate	YES	Digital signal	3750	4.75-5.25	150Mbps	-40 to125℃	DFN	RoHS	131
TD541S-4xL3	Quad channels high-rate	YES	Digital signal	3750	4.75-5.25	150Mbps	-40 to125℃	DFN	RoHS	131

AC/DC Power Supply with Integrated Isolated Transceiver Module

Series	Function	Input Voltage	Baud Rate	Nodes	Markings	Page
TLAxx-03KCAN	AC/DC power supply with integrated isolated CAN module	85-305VAC/100-430VDC	5-1000kbps	110	RoHS (€	128
TLAxx-03K485	AC/DC power supply with integrated isolated RS485 module	85-305VAC/100-430VDC	500kbps	128	RoHS (€	128
TLAxx-03K485L	AC/DC power supply with integrated isolated RS485 module	85-305VAC/100-430VDC	19.2kbps	128	RoHS (€	128

TLA Current Transducer

Series	Package	Function	Structure	Input Voltage	Current Measurement Range	Turns Ratio	Markings	Page
TLAX00-S	Closed-loop type C/L	High precision hall current transducer	Disc-type	± 12/±15VDC	$\pm 100 A \sim \pm 1000 A$	1:2000	RoHS	129

TDxUSPCAN

Protocol Conversion Module

Series	Function	Input Voltage	Baud Rate	Nodes	Markings	Page
TD3USPCAN	Protocol conversion module	3.15-3.45VDC	5k-1Mbps	110	RoHS (€	129
TD5USPCAN	Protocol conversion module	4.75-5.25VDC	5k-1Mbps	110	RoHS (€	129

SCM Industrial Bus Signal Interface Chips

Se	ries	VCC Voltage Range (V)	Bus Type	Duplex Mode	Baud Rate (Mbps)	No. of Channels	Interface Withstand Voltage (V)	Dominant Timeout Function	Nodes	Package	Page
SCM	3403A	3.0-5.5	RS-485	Half-duplex	12	1	-36 to +36	/	256	SOP-8	130
SCM	3421A	4.5-5.5	CAN	Half-duplex	1	1	-36 to +36	None	110	SOP-8	130
SCM	3422A	4.5-5.5	CAN	Half-duplex	1	1	-40 to +40	Available	110	SOP-8	130
SCM	3423A	4.5-5.5	CAN	Half-duplex	1	1	-40 to +40	Available	110	SOP-8	130

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EMC Auxiliary Device / Signal Conditioning Module



LED Driver / IGBT Driver



EMC Auxiliary Device

Series	Function	Input Voltage Range	Max. Output Power/Current	Markings	Page
FC-LX1D	EMC filter	85-305VAC	1.5A	RoHS	132
FC-LX1D2	EMC filter	85-305VAC	1.5A	RoHS	132
FC-LX1DR2	EMC filter	85-305VAC	0.2A	RoHS	132
FC-L01DV1	EMC filter	85-305VAC	0.3A	RoHS	132
FC-AX3D	EMC filter	10-36VDC	30W	RoHS	132
FC-B02D	EMC filter	18-75VDC	30W	RoHS	132
FC-D03D	EMC filter	18-36VDC	50W	RoHS	132
FC-E03D	EMC filter	36-75VDC	75W	RoHS	132
FC-A01D	EMC filter	9-36VDC	1A	RoHS	132
FC-B01D	EMC filter	18-75VDC	1A	RoHS	132
FC-C01D	EMC filter specialized for Railway	40-160VDC	10W	RoHS	133
FC-CX1D	EMC filter specialized for Railway	40-160VDC	30W	RoHS	133
FC-C03D	EMC filter specialized for Railway	40-160VDC	50W	RoHS	133
FC-CX3D	EMC filter specialized for Railway	66-160VDC	100W	RoHS	133
FI-B03D	DC/DC EMI filter	0-80VDC	3A	RoHS	133
FT-AX1D	DC/DC Pulse Group Suppressor	0-40VDC	1.5A	RoHS	134
FT-BX1D	DC/DC Pulse Group Suppressor	0-80VDC	1.5A	RoHS	134
FS-TD01D	485-AB bus surge protection module	0-5VDC	≤0.1	RoHS	134
FL2D	Common mode filter	/	0.5,1,3A	RoHS	135

Signal Conditioning Module

Series	Package	Product Type	Isolation Characteristics	s Input Signal	Output Signal	Isolation	Markings	Page
TN_T	SMD	Signal self-driving module	Two-terminal isolation	0-2.5V,0-5V,0-10V	0/4-10mA,0-2.5/5/10V	2500VDC	RoHS (€	136
TE_N	DIP	Active high precision positive signal	Two-terminal isolation	0-5V,0-10V,4-20mA	0-5V,0-10V	2000VAC	RoHS (€	138
TE_T	SMD	Active high precision positive signal	Two-terminal isolation	4-20mA,0-5V	0-5V,0-5V	2000VAC	RoHS	137
TE_AN	DIP	Active high precision positive signal	Two-terminal isolation	$\pm5V,\pm10V$	0-5V,0-10V	2000VAC	RoHS (€	138
TE_CN	DIP	Active high precision positive signal	Two-terminal isolation	$\pm5V,\pm10V$	$\pm5V,\pm10V$	2000VAC	RoHS (€	138
TEM_AN	DIP	Active, mV-class, positive and nagtive signal	Two-terminal isolation	$\pm75/\pm100\text{mV}$	0-5V	2000VAC	RoHS (€	138
TEM_CN	DIP	Active, mV-class, positive and nagtive signal	Two-terminal isolation	$\pm 50/\pm 100/\pm 200$ mV	$\pm5/\pm10V$	2000VAC	RoHS (€	138
TF_N	DIP	Active high precision output signal	Two-terminal isolation	0-5V,0-10V	0/4-20mA,0-5V,0-10V	2000VAC	RoHS (€	139
TF_GN	DIP	Active high precision output signal	Two-terminal isolation	0-5V	$\pm 10V$	2000VAC	RoHS (€	139
TFW_N	DIP	Active high precision PWM output signal	Two-terminal isolation	PWM signal 0-100%	0-20mA,0-10V	2000VAC	RoHS (€	139
T_P	DIP	Active high precision signal (versatile)	Four-terminal isolation	0/4-20mA,0-5V,0-10V	0/4-20mA,0-5V,0-10V	2500VDC	RoHS	140
T_CP	DIP	Active high precision signal (versatile)	Three-terminal isolation	$\pm5V,\pm10V$	$\pm 5V/\pm 10V$	2500VDC	RoHS	140
TM_P	DIP	Active high precision (mV-class input) signal	Three-terminal isolation	0-10/20/30/50/75/100m ¹	V 0/4-20mA,0-5V,0-10V	2500VDC	RoHS	141
TM_CP	DIP	Active high precision (mV-class input) signal	Three-terminal isolation ± 10	$/\pm 20/\pm 50/\pm 75/\pm 100/\pm$	200mV ±5/±10V	2500VDC	RoHS	141
T1100N	DIP	Passive high precision signal	Two-terminal isolation	4-20mA	4-20mA	3000VDC	RoHS (€	142
T1100L	SIP	Passive high precision signal	Two-terminal isolation	4-20mA	4-20mA	3000VDC	RoHS (€	142
T1100L-F	SIP	Passive module (loop power supply)	Two-terminal isolation	4-20mA	4-20mA	3000VDC	RoHS (€	142
T_HL	SIP	Two-wire loop power supply signal (with HART)	Two-terminal isolation	0-2.5V	3.7-22mA	2000VAC	RoHS (€	142
T_L	SIP	Two-wire loop power supply signal	Three-terminal isolation	0-2.5V	3.7-22mA	2000VAC	RoHS (€	142
TRP_P	DIP	Active detection type RTD signal	Three-terminal isolation	Pt100(0-500°C)	4-20mA	2000VAC	RoHS (€	143
TRP_HN	DIP	Two-channel RTD temperature detection	Two-terminal isolation	Pt100(-200to850°C)	IIC信号	3750VAC	RoHS	143
TE_HN	DIP (open-frame)	Active high precision high isolated signal	Two-terminal isolation	0-5V	0-5V	4000VAC	RoHS	143

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LED Driver

Series	Input Voltage Range(VDC)	Output Voltage(VDC)	Output Current (mA)	Markings	Page
KC24H-1000	5.5-48	3.3-36	1000	RoHS	144
KC24H-1200	5.5-48	3.3-36	1200	RoHS	144
KC24H-R	5.5-46	3.3-36	0-300,0-350,0-500,0-600,0-700	RoHS	144
KC24W	5.5-48	3.3-36	0-300,0-350,0-500,0-600,0-700	RoHS	144
KC24JT-R3	6-36	3.3-36	300,700	RoHS	144

Hybrid Integrated IGBT Driver (Built-in Isolated DC/DC Converter)

Series	Power Supply (VDC)	Input Voltage Range(VDC)	Output High-level Voltage VOH (VDC)	Output Low-level Voltage VOL (VDC)	Max. Driving Current (A)	Max. Frequency (Khz)	Isolation	Markings	Page
QP12W08S-3	7 15	14.5-15.5	15	-9	± 8	20	3750VAC	RoHS (€	145
QP12W08S-3	7A 12	11.6-12.4	15	-9	±8	20	3750VAC	RoHS (€	145

Hybrid Integrated IGBT Driver (Built-in Isolated DC/DC Converter)

Series	Power Voltage VCC (VDC)	Power Supply VEE (VDC)	Gate Voltage (VDC)	Max. Driving Current (A)	Max. Frequency (Khz)	No. of Channels	Isolation	Markings	Page
QC962-8A	14-18	8	+14/-9	±8	40	1	3750VAC	RoHS	145

DC/DC Converter for SiC MOSFET Driver

Series	Nominal Input Voltage (VDC)	Input Voltage Range (VDC)	Output Voltage Vo1 (VDC)	Output Voltage Vo2 (VDC)	Output Current (mA)	Effiency	Isolation	Markings	Page
QA01C	15	13.5-16.5	+20	-4	+100/-100	80	3500VAC	RoHS c N us (€	146
QA051C	5	4.5-5.5	+20	-5	+80/-40	79	3000VAC	RoHS	146
QA1201C-20	12	10.8-13.2	+20	-4	+100/-100	80	3500VAC	RoHS	146
QA121C2	12	10.8-13.2	+15	-3.5	+111/-111	81	3500VAC	RoHS	146
QA121C-20	12	10.8-13.2	+20	-5	+100/-100	79	3500VAC	RoHS	146
QA151C	15	13.5-16.5	+20	-5	+80/-40	78	3500VAC	RoHS	146
QA01C-18	15	13.5-16.5	+18	-3	+100/-100	79	3500VAC	RoHS	146
QA151C3	15	13.5-16.5	+15	-4	+100/-100	82	3000VDC	RoHS	146
QA151M	15	14.4-15.9	+15	-5	+100/-100	80	3500VAC	RoHS	146
QA2401C-20	24	21.6-26.4	+20	-4	+100/-100	80	3500VAC	RoHS	146

DC/DC Converter for IGBT Driver

Series	Voltage (VDC)	Range (VDC)	Vo1 (VDC)	Vo2 (VDC)	output Current (mA)	Effiency	Isolation	Markings	Page
QAW01	12	9-18	+15	-9	+200	85	3500VAC	RoHS	147
QA121	12	11.4-12.6	+15	-8	+120/-120	81	3000VAC	RoHS	146
QA04	12	9-15	+15	-8	+100/-80	80	3000VAC	RoHS c Nus (€	146
QA02	12	11.6-12.4	+15	-8.7	+80/-40	80	3000VAC	RoHS CRUS (E	146
QA01-A09	15	14.5-15.5	+9	-9	+55/-55	80	3000VAC	RoHS c Nus (E	146
QA01-09	15	14.5-15.5	+9		+111/	80	3000VAC	RoHS c Nus (E	146
QA01	15	14.5-15.5	+15	-8.7	+80/-40	80	3000VAC	RoHS c Nus (E	146
QA151	15	14.25-15.75	+15	-8	+120/-120	81	3000VAC	RoHS	146
QA01-17	15	14.5-15.5	+17	-8.7	+80/-40	80	3000VAC	RoHS c Sus (E	146
QA15115R2	15	13.5-16.5	+15	-2.5	+100/-100	80	3500VAC	RoHS	146
QA156D-24	15	13.5-16.5	+24	+24	+150/0	80	12000VDC	RoHS (€	147
QA152D	15	13.5-16.5	+15	-9	+200/-200	87	4000VAC	RoHS (€	147
QAU242D2G	24	9-36	+24	+24/+24	+150/+150	85	4200VAC	RoHS	147
QAW02	24	18-36	+15	-9	+200/-200	85	3000VDC	RoHS	147
QA03	24	23.3-24.7	+15	-8.7	+80/-40	80	3000VAC	RoHS c Nus (€	147
QA241	24	22.8-25.2	+15	-8	+120/-120	81	3000VAC	RoHS	146

[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

Pin-Out Details

DC/DC Converter Pin-Out

Input GND +Output Output GND -Vo Output DC(-Vin) -Input DC(+Vin)+Input Voltage Adjustable Vadi Baseline Pins ON/OFF Control Function Connecting to the Pins of the Metal Enclosure ON/OFF Control, UVLO & Starting ON/OFF Time Delay Function With External Capacitance (Reduce Ripple) Output Voltage Adjustable Voltage Output Remote Compensation(Output GND) -Sense +Sense Voltage Output Remote Compensation(Output+) No Electrical Connection No Pin No Pin

AC/DC Converter Pin-Out

High Voltage

AC(N) Neutral Wire Live Wire -Output -Vo +Vo +OutputTrim Output Voltage Adjustable COM Common

GND Protection +V(CAP) + External Capacitance -V(CAP) -External Capacitance No Electrical Connection

No Pin No Pin

Isolation Transmitter Module Pin-Out

Power Supply + Power Supply-Isolated Output + Isolated Output-Isolated Output GND Vo Output + Isolated Power, Output -Isolated Power, Output Input Feedback Input Common Output Common Power Common Pin com/GND Current Output Signal Input+ Signal Input-Signal Output + Signal Output-+ Isolated Power, Input -Isolated Power, Input -IN -Input +IN+Input Power supply

(1-550W) Current Input Gain Adjustable

Gain auxiliary regulation

Gain regulation

Zero auxiliary regulation

Zero regulation

MORNSUN®

23 Years of R & D Experience



Enclosed SMPS

€ SU US (€ SE REACH ROHS (COC CB Report

85-305VAC Input 85-264VAC Input







Open Frame LOF Series (120-550W)

On-board Products

AC/DC Converter







Transceiver Module



Discrete Solution

IC & Transformer







Others



[•] This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

- Accepts AC or DC input (dual-use of same terminal)
- Operating temperature: -30°C to +70°C
- High efficiency, low standby power consumption
- Isolation voltage 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Meets IEC/EN/UL62368, EN60335, EN61558, GB4943 standards
- Over-voltage class III (designed to meet EN61558)
- Operating altitude up to 5000m
- Both sides with conformal coating



RoHS CB Report LM15-23Bxx

Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ I o1)	t Efficiency(% (typ)
LM15-23B03	9.9W		3.3V/3.0A	73
LM15-23B05	15W		5V/3.0A	78
LM15-23B12	15.6W	85-305VAC/	12V/1.3A	82
LM15-23B15	15W	100-430VDC	15V/1.0A	82
LM15-23B24	15W		24V/0.625A	83
LM15-23B48	15.36W		48V/0.32A	83

LM35-23Bxx	c RU us (€ (RoHS CB Report	回流

Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LM35-23B05	35W		5V/7A	81
LM35-23B12	36W	85-305VAC/	12V/3A	85
LM35-23B15	36W	100-430VDC	15V/2.4A	86
LM35-23B24	36W		24V/1.5A	87

LM75-23Bxx	c¶N°us (€ ((() RoHS CB Report	
and the same of th		25 25 25 25 25 25

	O D AAA		_	11.5525-06-3
Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LM75-23B05	70W		5V/14A	85
LM75-23B12	72W		12V/6A	87
LM75-23B15	75W	85-305VAC/	15V/5A	87
LM75-23B24	76.8W	100-430VDC	24V/3.2A	89
LM75-23B36	75.6W		36V/2.1A	89
LM75-23B48	76.8W		48V/1.6A	90.5

LM150-	23Bxx	c 93 0us €€	RoHS CB Repo	ort
Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LM150-23B12	150W		12V/12.5A	86
LM150-23B15	150W		15V/10A	87
LM150-23B24	156W	85-305VAC/	24V/6.5A	88
LM150-23B36	154.8W	100-430VDC	36V/4.3A	88

48V/3.3A

55V/2.73A

90

LM25-23B24 26.4W 27.36W LM25-23B48

LM50-23Bxx

LM25-23Bxx

Model number

LM25-23B03

LM25-23B05

LM25-23B12

LM25-23B15

Power

19.8W

25W

25 2W

25.5W

c¶us (€ (((C) RoHS CB Report

Input voltage range

85-305VAC/

100_430VDC

c¶ (€ ((() RoHS CB Report



Output voltage/ current Efficiency(%)

3.3V/6A

5V/5A

12V/2.1A

15V/1.7A

24V/1.1A

48V/0.57A

78

81

85

86

88

Product Prog	gram			自建筑整
Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ l o1)	nt Efficiency(%) (typ)
LM50-23B05	50W		5V/10A	83
LM50-23B12	50.4W		12V/4.2A	86
LM50-23B15	51W	85-305VAC/	15V/3.4A	87
LM50-23B24	52.8W	100-430VDC	24V/2.2A	88
LM50-23B36	52.2W		36V/1.45A	89
LM50-23B48	52.8W		48V/1.1A	90

LM100-23Bxx

c¶N us (€ (((C) RoHS CB Report

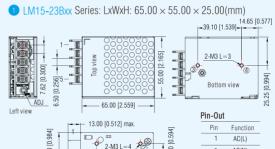


Product Prog	gram		可多数	
Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(%) (typ)
LM100-23B05	90W		5V/18A	85.5
LM100-23B12	102W		12V/8.5A	87
LM100-23B15	105W	85-305VAC/	15V/7.0A	87
LM100-23B24	108W	100-430VDC	24V/4.5A	89.5
LM100-23B36	100.8W		36V/2.8A	89.5
LM100-23B48	110.4W		48V/2.3A	90.5

Note: All models have a variant.

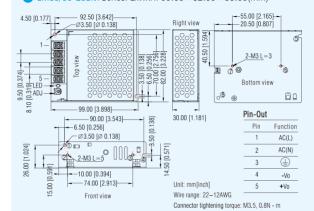
1) Terminal with protective cover series: with the suffix "-C".

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.



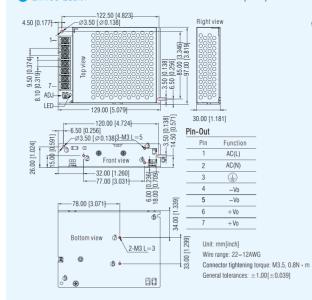
2-M3 L=4 2 AC(N) (<u>I</u>) 39 10 [1 539] 11 50 [0 453] -Vo Wire range: 22-14AWG 5 +Vo Connector tightening torque: M3, 0.4N - m General tolerances: ±1,00[±0,039]

3 LM35/50-23Bxx Series: LxWxH: 99.00×82.00×30.00(mm)



5 LM100-23Bxx Series: LxWxH: 129.00 × 97.00 × 30.00(mm)

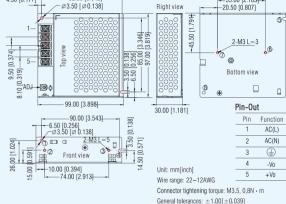
General tolerances: ±1.00[±0.039]



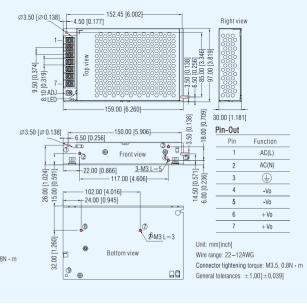
2 LM25-23Bxx Series: LxWxH: 80.00 × 55.00 × 25.00(mm) → 55.00 [2.165] → 2-M3 L=3 Pin-Out Pin Eunction ___ 14 00 (0 551) may AC(L) 2-M3 L=3 (4) AC(N) Front view (<u>I</u>) 4 -Vo +Vo Wire range: 22-12AWG Connector tightening torque: M3, 0,4N · m

4 LM75-23Bxx Series: LxWxH: 99.00×97.00×30.00(mm)

General tolerances: +1 00[+0 039]



6 LM150-23Bxx Series: LxWxH: $159.00 \times 97.00 \times 30.00$ (mm)



• This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

LM150-23B48 158.4W

LM150-23B55 150.15W

L M Series 200-600W Enclosed Switching Power Supply (Single Output)

Features:

 Input voltage: 176-264VAC/240-373VDC 90-132VAC/180-264VAC

- Operating temperature: -30°C to +70°C
- Low standby power consumption, high efficiency, low ripple & noise
- Isolation voltage 4000VAC
- Output short circuit, over-current, over-voltage, over-temperature protection
- Over-voltage class III (designed to meet EN61558)
- Operating altitude up to 5000m
- Meets IEC/EN/UL62368, IEC/EN60335, IEC/EN61558, GB4943 standards



LM200-	10Bxx	c FN 'us (6	COC RoHS CB Rep	oort ***			
Product Program							
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ l o1)	nt Efficiency(%) (typ)			
LM200-10B05	150W		5V/30A	87			
LM200-10B12	204W		12V/17A	87.5			
LM200-10B15	210W	90-132VAC/ 180-264VAC	15V/14A	88			
LM200-10B24	211.2W		24V/8.8A	88.5			
LM200-10B36	212.4W		36V/5.9A	89			

48V/4.4A

89.5

LM350-	10Bxx	c ¶ Us (€	RoHS CB Repo	ort Carlo
Product Progr				
Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ l o1)	nt Efficiency(%) (typ)
LM350-10B05	300W		5V/60A	83.5
LM350-10B12	348W		12V/29A	85
LM350-10B15	348W	90-132VAC/	15V/23.2A	86
LM350-10B24	350.4W	180-264VAC	24V/14.6A	87
LM350-10B36	349.2W		36V/9.7A	88
LM350-10B48	350.4W		48V/7.3A	88.5

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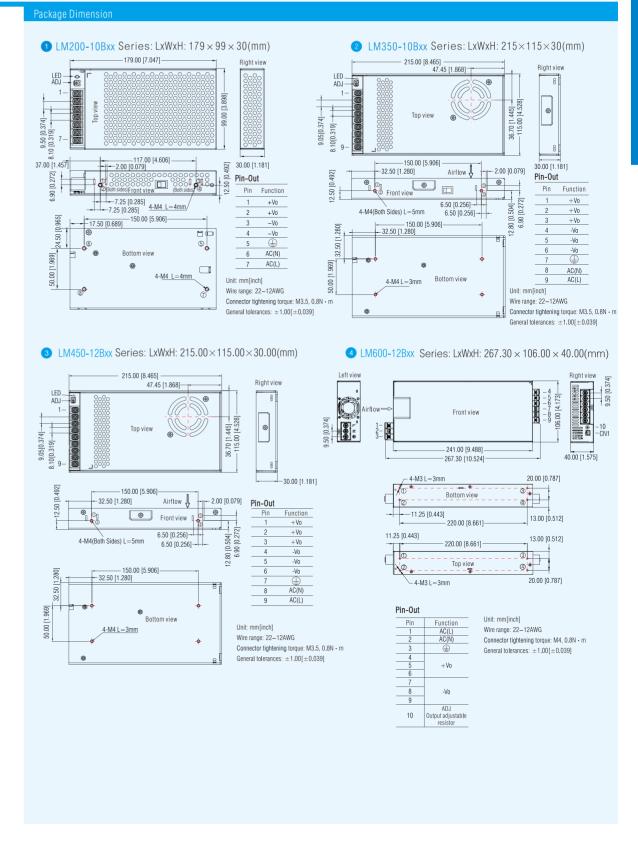
LM450-1	2Bxx	(€ Rol	ds # 100	
Product Progra	am			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LM450-12B12	450W		12V/37.5A	85
LM450-12B15	450W		15V/30A	86
LM450-12B24	451.2W	176-264VAC/	24V/18.8A	87
LM450-12B27	450.9W	240-373VDC	27V/16.7A	87
LM450-12B36	450W		36V/12.5A	87.5
LM450-12B48	451.2W		48V/9.4A	88

LM600-1	2Bxx	(€ RoH	IS EXPE	
Product Progr				高温
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LM600-12B12	600W		12V/50A	85
LM600-12B15	600W		15V/40A	86
LM600-12B24	600W	176-264VAC/	24V/25A	87
LM600-12B27	599.4W	240-373VDC	27V/22.2A	87
LM600-12B36	597.6W		36V/16.6A	87
LM600-12B48	600W		48V/12.5A	88

Note: All models have two variants.

LM200-10B48 211.2W

- 1 Terminal with protective cover series: with the suffix "-C";
- 2 Products with conformal coating series: with the suffix "-Q".



[•] This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

- Input voltage: 85-305VAC/120-430VDC

- Isolation voltage 4000VAC



LMF75-2	20Bxx	c'	91 ′us (€ ((() Ro	HS
Product Progr				
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LMF75-20B05	75W		5V/15A	82
LMF75-20B12	75.6W		12V/6.3A	85
LMF75-20B15	75W	85 - 264VAC/ 120 - 370VDC	15V/5A	86
LMF75-20B24	76.8W	120 - 370000	24V/3.2A	87
LMF75-20B48	76.8W		48V/1.6A	89

LIVII 70 ZOD-10	70.0		701/1.0/(0.5
LMF150-	-23Bxx) su' lR 3	RoHS CB Rep	ort PARTE
Product Progra			(Pendi	ing)
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	nt Efficiency(%) (typ)
LMF150-23B12	150W		12V/12.5A	85.5
LMF150-23B15	150W	85-305VAC/	15V/10A	86
LMF150-23B24	151.2W	120-430VDC	24V/6.3A	87
LMF150-23B48	153.6W		48V/3.2A	88

LMF320-	-23Bx)	₹ 12 0s (€	RoHS CB Rep	ort
Product Progr	am			
Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(%) (typ)
LMF320-23B05	300W		5V/60A	84
LMF320-23B12	320.4W	05 0051/40/	12V/26.7A	86.5
LMF320-23B15	321W	85-305VAC/ 120-430VDC	15V/21.4A	89
LMF320-23B24	321.6W	120 100000	24V/13.4A	88.5
LWE33U 33B48	321 6W		481/6 74	9.0

LMF1000	-20B	ХХ	C€ Rol	HS TO S
Product Progra			(Pendi	ng)
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LMF1000-20B12	970W	00.0041404	12V/80A	92
LMF1000-20B24	1018W	90-264VAC/	24V/42A	94



LMFseries 75-1000W Enclosed Switching Power Supply (With PFC Function, Single Output)

LMF100-	-23Bx)	(₽1 0 us (€	RoHS CB Repo	ort 🐺
Product Prog			(Pendin	9) 画家理
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ l o1)	nt Efficiency(%) (typ)
LMF100-23B12 LMF100-23B15 LMF100-23B24 LMF100-23B48	102W 100.5W 100.8W 100.8W	85-305VAC/ 120-430VDC	12V/8.5A 15V/6.7A 24V/4.2A 48V/2.1A	85 86 86 87

LMF200-	-23Bx	K e	% us (€ @ Ro	HS TOTAL
Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ l o1)	nt Efficiency(%) (typ)
LMF200-23B12	200.4W		12V/16.7A	88
LMF200-23B15	201W	85-305VAC/	15V/13.4A	88
LMF200-23B24	201.6W	120-430VDC	24V/8.4A	90
LMF200-23B48	201.6W		48V/4.2A	89

94

94

94

LIVII 200 20040	201.000		701/7.2/	0.0
LMF600-	HS P S			
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)
LMF600-20B05	500W		5V/100A	86
LMF600-20B12	600W		12V/50A	92
LMF600-20B15	600W	85-264VAC/	15V/40A	92
LMF600-20B24	600W	120-373VDC	24V/25A	94

27V/22.3A

36V/16.7A

48V/12.5A

Note: All models have two variants.

LMF600-20B27 602.1W

LMF600-20B36

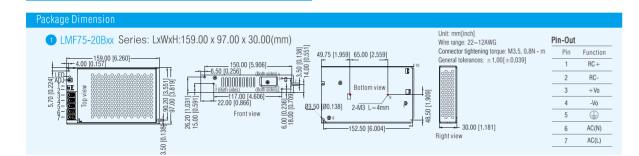
LMF600-20B48

1 Terminal with protective cover series: with the suffix "-C";

601.2W

600W

2 Products with conformal coating series: with the suffix "-Q".



48V/21A 94

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

2 LMF100/150-23Bxx/LMF200-23Bxx (Except 5V) Series: LxWxH: 179.00×99.00×30.00(mm) _ 179.00 [7.047]__ CN1 (Remote control switch) Note: I ME200 60.00 [2.362] 65.00 [2.559] ADJ (Output adjustable resistor) Pin-Out Function +Vn Dottom viou 0 2-M4 L=4mm/ -Vo 1 117.00 [4.606] -25 NN IN 9841 30.00 [1.181] Front view AC(N) Wire range: 22-12AWG AC(L) Connector tightening torque: M3.5, 0.8N • m General tolerances: ±1.00[±0.039] 7.25 [0.285] 7.25 [0.285] 4-M4 L=4mm 3 LMF200-23B05/LMF320-23Bxx Series: LxWxH: 215.00×115.00×30.00(mm) - 215.00 [8.465] ---47.45 [1.868] 150.00 [5.906] Pin_Out -32.50 [1.280] ADJ (Output LED. Pin Function Adjustable Resistor) +V0 9.50 [0.37-+V0 4-M4 L = 3mm +V0 4 -Vo -Vo -150.00 [5.906]--Vo 32.50 [1.280] 2.00 [0.079] 30.00 [1.181] Unit: mm[inch] 9 9 9 2 Wire range: 22-12AWG AC(N) 4-M4(Both Sides) L=5mm 6.50 [0.256] Connector tightening torque: M3.5, 0.8N · m AC(L) General tolerances: ±1.00[±0.039] 4 LMF600-20Bxx Series: LxWxH: 203.1 × 101.6 × 40.6(mm) - 203.10 [7.996] - 200.60 [7.898] — 144 50 [5 689]---- 17 00 IO 6691 .l1: Pin-Out +5VSB 12 = 12 +5VSB RC-10 = 12 +5VSB RC-10 = 12 +5VSB SSB_RTN 8 = 7 +5VSB DC_0K+ 6 = 5 DC_0K-NC 4 = 3 NC Unit: mm[inch] M3*0.5 Screw Hole (4X), L=4mm Max Wire diameter of input terminal: 22-14AWG M3*0.5 Screw I Innut wiring lock attached torque: M4 1 2N - m Note: the dimension and layout of this series haven't fixed yet, Wire diameter of input terminal: 22-12AWG for detailed information please refer to the latest datasheet. Input wiring lock attached torque: M3.5, 0.8N - m. General tolerances: $\pm 1.00[\pm 0.039]$ 1-8 any position must be connected to PE 5 LMF1000-20Bxx Series: LxWxH: 190.00 × 127.00 × 40.50(mm) Unit: mm[inch] - 140 00 [5 512]-----+ 17.50 [0.689] Wire range: 22-12AWG Connector tightening torque: M5, 2.3N · m Top view General tolerances: ±1.00[±0.039] Right view -100.00 [3.937] 38.50 [1.516] Pin-Out Pin-Out Client Connector Airflow -Pin Function sing: XHS2.5-2Y (Kang Dao Front view -S ntact: XH2.5-TF (Kann Dan) 6 Output adjustable Airflow or equivalent +\$ 185 00 [7 283]-2 40.50 [1.594] Pin_Out Client Connector 190.00 [7.480] Function Pin 8 Function - 2 CN1 2 CURRENT SHARE 3 DC_OK 4 SCL Housing: JST PHDR-14VS 9 ADDRESSO or equivalent Contact: JST SPHD-002T-P0.5 11 ADDRESS2 Bottom view or equivalent - 140 OO (5 512) -17 50 IO 6891

• This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

LMF1000-20B48 1018W

 $2 \text{ LM50-10A/C/Dxx Series: LxWxH: } 99.00 \times 97.00 \times 30.00 \text{ mm}$

92 50 [3 642]

L Mseries 35-100W Enclosed Switching Power Supply (Multiple Outputs)

Features:

- Input voltage: 85-264VAC/120-373VDC
- Operating temperature: -30°C to +70°C
- High efficiency, high reliability, long lifetime
- Output short circuit, over-current, over-voltage protection
- Isolation voltage 3000VAC
- Meets IEC/EN/UI 62368, EN60335, GB4943 standards
- EMI performance meets CISPR32/EN55032 CLASS B
- Withstand 5G vibration test
- Operating altitude up to 5000m



LM35-10Cxx







(€ RoHS

CE RoHS

i iouucti iogiaiii					L	16255 (165
Model number	Power	Input voltage range	Outp (Vo1/ l o1)	ut voltage/ cı (Vo2/ l o2)	urrent E (Vo3/ I o3)	fficiency((typ)
LM35-10C051212-10	33W	05 00 0 40	+5V/3.0A	+12V/1.0A	-12V/0.5A	81
LM35-10C051515-10	35W	85-264VAC/ 120-373VDC	+5V/2.5A	+15V/1.0A	-15V/0.5A	81
LM35-10C052412-05	36.5W	120 070700	+5V/2.5A	+24V/0.5A	+12V/1.0A	81

Input voltage

85-264VAC

120-373VDC

Input voltage

90-264VAC

120-373VDC

range

Power

50W

51W

Power

69.6W

72W

73W

Product Program					。
Model number	Power	Input voltage range	Output volt (Vo1/ l o1)	age/ current (Vo2/ l o2)	Efficiency(% (typ)
LM35-10D0512-10	32W	85-264VAC/	+5V/4.0A	+12V/1.0A	81
LM35-10D0524-10	35W	120-373VDC	+5V/2.2A	+24V/1.0A	83

LM50-10Cxx

Modelnumber

LM50-10C051212-20

LM50-10C051515-15

LM50-10C052412-10

(Vo2/lo2) (Vo3/lo3) (typ)

-15V/0.5A

+12V/2.0A -12V/0.5A

+24V/1.0A +12V/1.0A

Output voltage/ current

+15V/1.5A

+12V/2.8A

+15V/2.3A

+5V/3.0A

(Vo1/Io1)

+5V/6.0A

+5V/5 0A



Product Program					
Model number	Power	Input voltage range	Output voli (Vo1/ l o1)	age/ current (Vo2/ l o2)	Efficiency(%) (typ)
LM50-10A12	50.4W	85-264VAC/ 120-373VDC	+12V/2.1A	-12V/2.1A	83

LM75-10Cxx

Model number

LM75-10C051212-28

LM75-10C051515-23

LM75-10C052412-15

(€ RoHS

(Vo2/lo2) (Vo3/lo3) (typ)

-12V/0.5A

-15V/0.5A



LM50-10Axx

LM50-10Dxx

Product Program					
Model number	Power	Input voltage range	Output vol: (Vo1/ l o1)	tage/ current (Vo2/ l o2)	Efficiency(9 (typ)
LM50-10D0512-20	54W	85-264VAC/	+5V/6.0A	+12V/2.0A	83
LM50-10D0524-14	53.6W	120-373VDC	+5V/4.0A	+24V/1.4A	84

LM100-10Cxx

+24V/1.5A +12V/1.0A



82

Product Program					ĺ		
Model number	Power	Input voltage range	Outp (Vo1/ l o1)	ut voltage/ cı (Vo2/ l o2)	urrent E (Vo3/ I o3)	fficiency(% (typ)	6)
LM100-10C051212-35	94W	00 00 00 00	+5V/8.0A	+12V/3.5A	-12V/1.0A	84	
LM100-10C051515-30	95W	90-264VAC/ 120-373VDC	+5V/7.0A	+15V/3.0A	-15V/1.0A	85	
LM100-10C052412-20	96W	120 070400	+5V/6.0A	+24V/2.0A	+12V/1.5A	85	

Note: All models have a variant. Poducts with conformal coating series: with the suffix "-Q".

ROHS ROHS LM75-10Dxx

Product Program					
Model number	Power	Input voltage range	Output vol: (Vo1/ l o1)	tage/ current (Vo2/ l o2)	Efficiency(% (typ)
LM75-10D0512-30	71W	90-264VAC/	+5V/7.0A	+12V/3.0A	82
LM75-10D0524-20	73W	120-373VDC	+5V/5.0A	+24V/2.0A	84

LM100-10Dxx Input voltage (Vo1/Io1) (Vo2/lo2) range LM100-10D0524-30 +5V/5.0A +24V/3.0A 85 97W 90_264VAC/ 96W 120-373VDC LM100-10D1224-20 +12V/4.0A +24V/2.0A

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Ø3.50 [Ø0.138] 92.50 [.177] 4.50 [0.177] - 92.50 [0.042] - 93.50 [Ø0.138] Right view __ 1898 F1 NN PP __ 30 00 [1 181] - 90.00 [3.543]--6.50 [0.256] -Ø3 50 [Ø0 138] Ø3.50 [Ø0.138] - 6.50 [0.256] 2-M3,L=5 | 8, 8, Unit: mm[inch] 2-M3 L=5 ID Wire range: 22-14AWG Connector tightening torque: M3, 0.5N - m Front view Front view Unit: mm[inch] -- 10.00 [0.394] -- 74.00 [2.913]--General tolerances: +1 NNI+0 0301 Wire ranne: 22_14AWG 10 00 [0 394] 1)-(8) any position must be connected to PE Connector tightening torque: M3 0 5N - m -74 00 [2 913]-General tolerances: +1 00(+0 039) 1)-(8) any position must be connected to PE ----55.00 [2.165]-- -20.50 [0.807] Pin LM35-10C LM35-10D 1 AC(L) AC(L) Pin-Out 2-M3 L=3 1 AC(L) AC(L) AC(L) 2 AC(N) AC(N) AC(N) 2-M3 L=3 5 Vo2 6 COM 5 Vo2 Vo2 -Vo2 6 COM COM +Vo1 20.50 [0.807] - - 55.00 [2.165] -7 Vo1 Vo1 -Vo1 3 LM75-10C/Dxx Series: LxWxH: 129.00×97.00×30.00(mm) 4 LM100-10C/Dxx Series: LxWxH: 159.00×97.00×30.00(mm) ~ Ø3 50 [Ø0 138] 4.50 [0.177] - 159 nn (6 26n) 30 00 [1 181] -129.00 [5.079]-30.00 [1.181] -- 6 50 IO 2561 6.50 [0.256] Ø 3 50 [Ø 0 138]~ -__Ø3.50 [Ø0.138] 3-M3 L=5 Wire range: 22-14AWG -22.00 [0.866] 3-M3 L=5 Connector tightening torque: M3, 0.5N · m 32.00 [1.260] General tolerances: ±1.00[±0.039] 1)-9 any position must be connected to PE -102.00 [4.016] --- 24.00 [0.945] 78.00 [3.071] Pin-Out Pin-Out Pin LM75-10C LM75-10D Pin LM100-10C LM100-10D 1 AC(L) AC(L) 2 AC(N) AC(AN \ 2-M3 L=3 1 AC(L) AC(L) Bottom view 2-M3 L=3 5 Vo2 -Vo2 Vo2 -Vo2 Unit: mm[inch] COM Wire range: 22-14AWG Connector tightening torque: M3. 0.5N · m General tolerances: ±1.00[±0.039] 1-9 any position must be connected to PE

1 M35-10C/Dxx Series: LxWxH: $99.00 \times 97.00 \times 30.00$ (mm)

— 92 50 I3 6421-

LOFSeries 120-350W High Power Density Open Frame / Enclosed Switching Power Supply (With PFC Function)

Features:

- Input voltage: 85-264VAC/120-370VDC
- High power density, compact size
- Built-in active PFC function
- Isolation voltage 4000VAC
- Operating altitude up to 5000m
- Extremely low leakage current < 0.1mA
- Stand-by power consumption < 0.5W
- The base plate with conformal coating
- Output short circuit, over-current, over-voltage, over-temperature protection
- Suitable for BF application

Model number L0F120-20B12

L0F120-20B15

L0F120-20B24

L0F120-20B27

L0F120-20B36

L0F120-20B48

L0F120-20B54

• Installing in system of safety class I (with PE) / II (without PE) is available

Rated power

114W

114W

120W

119 9W

118.8W

120W

120W

Meets IEC/EN/UL62368-1. IEC/EN60335-1. IEC/EN61558-1. GB4943-1. IEC/EN/ES60601-1 standards

LOF120-20Bxx(-C) _□ SN_{ss} (€ RoHS CB Report

Input voltage Cooling range mode

85-264VAC

120-370VDC

Air cooling



开板 计	机克力
Itage/ E	fficiency(%)

2071 W	Caracacacacacacacacacacacacacacacacacaca
Output voltage/ E current(Vo1/ I o1)	
12V/9.5A	94
15V/7.6A	94
24V/5A	95
27V/4.44A	95
36V/3.3A	93
48V/2.5A	94.5
54V/2.5A	94

LOF350-20BXX(-C) SANUS CE ROHS CB Report



开板 人	机壳

Model number	Input voltage range	Cooling mode	Rated power	Output voltage/ E current(Vo1/ l o1)	fficiency(%) (typ)
105050 00040	90-264VAC/	Air cooling	180W	12V/15A	92
L0F350-20B12	127-373VDC	20.5CFM	300W	12V/25A	92
LOE2E0 20D4E	90-264VAC/	Air cooling	180W	15V/12A	92
L0F350-20B15	127-373VDC	20.5CFM	325W	15V/21.67A	92
105050 00004	90-264VAC/	Air cooling	199.9W	24V/8.33A	93
L0F350-20B24	127-373VDC	20.5CFM	350.4W	24V/14.6A	93
105250 00007	90-264VAC/ 127-373VDC	Air cooling	199.8W	27V/7.4A	93
L0F350-20B27		20.5CFM	351W	27V/13A	93
105350 30030	90-264VAC/	Air cooling	200.1W	36V/5.56A	93
L0F350-20B36	127-373VDC	20.5CFM	350.3W	36V/9.73A	93
105050 00040	90-264VAC/	Air cooling	200.1W	48V/4.17A	94
L0F350-20B48	127-373VDC	20.5CFM	350.4W	48V/7.3A	94
105050 00054	90-264VAC/	Air cooling	199.8W	54V/3.7A	94
L0F350-20B54	127-373VDC	20.5CFM	351W	54V/6.5A	94

LOF225-20Bxx(-C) . TALES (& ROHS CB REPORT

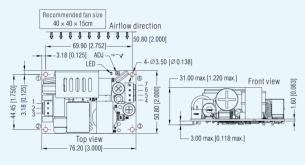


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Product Progr	am				部組
Model number	Input voltage range	Cooling mode	Rated power	Output voltage/ { current(Vo1/ l o1)	Efficiency(% (typ)
L0F225-20B12	85-264VAC/	Air cooling	140W	12V/11.67A	93
	120-370VDC	13CFM	225W	12V/18.75A	93
L0F225-20B15	85-264VAC/	Air cooling	140W	15V/9.33A	93
	120-370VDC	13CFM	225W	15V/15A	93
L0F225-20B24	85-264VAC/	Air cooling	140W	24V/5.83A	94
	120-370VDC	13CFM	225W	24V/9.4A	94
L0F225-20B27	85-264VAC/	Air cooling	130W	27V/4.81A	94
	120-370VDC	13CFM	225W	27V/8.35A	94
L0F225-20B36	85-264VAC/	Air cooling	140W	36V/3.88A	94
	120-370VDC	13CFM	225W	36V/6.25A	94
L0F225-20B48	85-264VAC/	Air cooling	140W	48V/2.91A	94
	120-370VDC	13CFM	225W	48V/4.7A	94
L0F225-20B54	85-264VAC/	Air cooling	140W	54V/2.59A	94
	120-370VDC	13CFM	225W	54V/4.17A	94

Note: Metal enclosure series: series with the suffix "-C".





Pin-Out					
Pin	Function	Product Connector	Client Connector		
1	AC(N)	JST B3P-VH or equivalent	Housing: JST VHR		
2	NC		Contact: JST SVH-21T-P1.1		
3	AC(L)		or equivalent		
4、5	-Vo	JST B4P-VH	Housing: JST VHR Contact: JST SVH-21T-P1,1		
6、7	+Vo	or equivalent	or equivalent		

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

2 LOF120-20Bxx-C Series: LxWxH: 80.00×62.00×40.00(mm)The pin function of this series is the same as LOF120-20Bxx. 20 00 10 707 1.70 [0.067] 2-M3 L=4 Ø3.50 [Ø0.138] 2-M3 L=3 Unit- mm[inch] General tolerances: ±1.00[±0.039] The layout of the device is for reference only. please refer to the actual product --- 64 NN 12 52N 1. A safe distance between the PCB board and the customer device must be reserved, 10mm is recommended 2, Class I system ①, ④ The two positions must be connected to the earth (() 3 Class II system (1) (4) The two positions must be shorted 4 L0F225-20Bxx-C Series: LxWxH: 103.40×62.00×37.00(mm) 3 L0F225-20Bxx Series: LxWxH: 101.60×50.80×25.40(mm) ecommended fan siz 40 × 40 × 15cm - 95.25 (3.750)-2-M3 L=3 -3.18 [0.125] Bottom view - 103 40 [4 071] __100.00 [3.937] — 101 60 [4 000] 1.70 [0.067] __ 25 40 [1 000] - Ø3 50 [Ø0 138] 12.70 [0.500] ☐ 3.00 max.[0.118 max.] Front view -78 NN 13 N711-Function Product Connector AC(N)/DC-1 Unit: mm[inch] Client Connector 2. General tolerances: +1.00[+0.039] JST B3P-VH ısina: JST VHR Contact: JST SVH-21T-P1,1or equivalent 3. Please do not use fan power to power other devices 4. The layout of the device is for reference only, please refer to the actual product 4 Fan-Housing: JST PHR-2 Contact: JST SPH-002T-P0,56 or equivalen 5. A safe distance between the PCB board and the customer device must be reserved, 10mm is recommended 5 Fan+ 6. Class I system (1), (3) The two positions must be connected to the earth ((1)) 6、7、8 -Vo Housing: JST VHR Contact: JST SVH-21T-P1.1or equivalent 7. Class II system ①, ③ The two positions must be shorted 9, 10, 11 +Vn 6 L0F350-20Bxx-C Series: LxWxH: 130.00 × 86.00 × 35.00(mm) 5 L0F350-20Bxx Series: LxWxH: 127.00×76.20×25.40(mm) - 127.00 [5.000] -5.00 [0.197] -115.60±20 [4.551±0.008]-2.00 [0.079] 126.00 [4.961] Pin-Out Pin Function Product Connector Client Connector -130 00 [5 118] -4-Ø4.00 [Ø0.157] Ton view û î û î û Airflow Housing: JST VHR Contact: JST SVH-21T-P1.1 8 8 8 8 8 Airflow 20,5 CFM 40×40×15cm FAN 20.5 CFM 57.00 [2.244] Housing: Kan Dao 2.5XHS-2\ 6 FAN- Kan Dao 2.5XHS-2A 120.00 [4.724] -Contact: Kan Dao 2.5XH-TE -56 00 (2 205) 5.00 [0.197] 7 FAN+ or equivalent 8 -Vo 9 +Vo Unit: mm[inch] Bottom view General tolerances: $\pm 1.00[\pm 0.039]$ 4-M3 L=3mm Connector tightening torque: M3.5, 0.8N · m Wire ranne: 18-14AWG The layout of the device is for reference only, please refer to the actual product 1. A safe distance between the PCB board and the customer device must be reserved, 10mm is recommended 2. Class I system 1, 2, 4 The two positions must be connected to the earth (1)

• This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

3, Class II system ①,②, ④ The two positions must be shorted

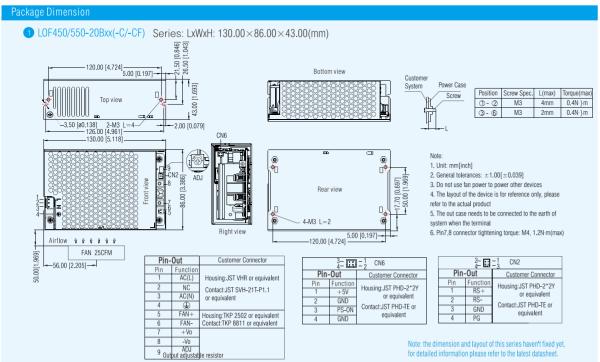
- Input voltage: 85-264VAC/120-370VDC
- High power density, compact size
- Built-in active PFC function
- Isolation voltage 4000VAC
- Operating altitude up to 5000m
- Extremely low leakage current < 0.1mA
- Stand-by power consumption < 0.5W
- The base plate with conformal coating
- Output short circuit, over-current, over-voltage, over-temperature protection
- Suitable for BF application
- Installing in system of safety class I (with PE) / II (without PE) is available
- Meets IEC/EN/UL62368-1, IEC/EN60335-1, IEC/EN61558-1, GB4943-1, IEC/EN/ES60601-1 standards



LOF450-2	20Bxx(-0	(-CF)		MOPP CB Report	
Product Progr	am			(Pending)	
Model number	Input voltage range	Cooling mode	Rated power	Output voltage/ current(Vo1/Io1)	Efficiency(%) (typ)
L0F450-20B12	90-264VAC/	Air cooling	250W	12V/20.8A	91
	127-373VDC	25CFM	400W	12V/33.3A	91
L0F450-20B15	90-264VAC/	Air cooling	250W	15V/16.7A	92
	127-373VDC	25CFM	400W	15V/26.7A	92
L0F450-20B24	90-264VAC/	Air cooling	250W	24V/10.5A	93
	127-373VDC	25CFM	450W	24V/18.75A	93
L0F450-20B27	90-264VAC/	Air cooling	250W	27V/9.3A	93.5
	127-373VDC	25CFM	450W	27V/16.7A	93.5
L0F450-20B36	90-264VAC/	Air cooling	250W	36V/6.95A	93
	127-373VDC	25CFM	450W	36V/12.5A	93
L0F450-20B48	90-264VAC/	Air cooling	250W	48V/5.3A	94
	127-373VDC	25CFM	450W	48V/9.4A	94

L0F550-2	20Bxx(-0	C/-CF)		MOPP CB Report	
Product Progra				(Pending)	
Model number	Input voltage range	Cooling mode	Rated power	Output voltage/ current(Vo1/ I o1)	Efficiency(% (typ)
L0F550-20B12	90-264VAC/	Air cooling	320W	12V/26.7A	91
	127-373VDC	25CFM	500W	12V/41.6A	91
L0F550-20B15	90-264VAC/	Air cooling	320W	15V/21.3A	92
	127-373VDC	25CFM	500W	15V/33.3A	92
L0F550-20B24	90-264VAC/	Air cooling	320W	24V/13.4A	93
	127-373VDC	25CFM	550W	24V/22.9A	93
L0F550-20B27	90-264VAC/	Air cooling	320W	27V/11.9A	93.5
	127-373VDC	25CFM	550W	27V/20.4A	93.5
L0F550-20B36	90-264VAC/	Air cooling	320W	36V/8.9A	94
	127-373VDC	25CFM	550W	36V/15.3A	94
L0F550-20B48	90-264VAC/	Air cooling	320W	48V/6.7A	94
	127-373VDC	25CFM	550W	48V/11.46A	94

Note: Metal enclosure series: series with the suffix "-C".



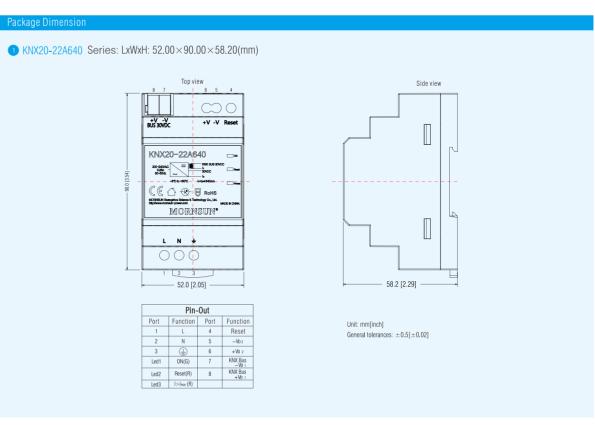
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Features:

- Input voltage: 180-264VAC/254-370VDC
- Operating temperature: -30°C to +70°C
- Low standby power consumption, high efficiency
- Isolation voltage 4000VAC
- Output short circuit, over-current, over-voltage protection
- EN62368 safety approved, safety according to EN61558, EN50491
- Bus reset function
- LED indicator for working status, over-load and reset
- Internal integrated choke
- Compact dimensions, Din-rail design, din rail TS-35/7.5 or TS-35/15 mountable
- Over-voltage class III
- Safety extra low voltage (SELV)
- 10-year life design



KNX20-22	A640	C€ RoHS		
Product Progran				
Model number	Power	Input voltage range	Output voltage/ current	Efficiency(%) (typ)
KNX20-22A640	19.2W	180-264VAC	30V/640mA	86



- Wide input voltage range: 85-264VAC/120-370VDC
- Accepts AC or DC input (dual-use of same terminal)
- Operating temperature: -40°C to +70°C
- Isolation voltage 4000VAC (input-output)
- Over-voltage class III (designed to meet EN61558)
- Low standby power consumption, high efficiency, low ripple & noise
- Output short circuit, over-current, over-voltage protection
- UL/EN/IEC62368 safety approved
- DIN rail TS35X7.5/TS35X15 mountable

15W

24W

30W

36W

36W



LI30-20BxxPR2

Model number

LI30-20B05PR2

LI30_20R12PR2

LI30-20B15PR2

LI30-20B24PR2

LI30-20B48PR2

c¶Nus (€ RoHS CB Report

5V/3A

12V/2A

15V/2A

24V/1.5A

48V/0.75A



Efficiency(%) (typ)	
82	
88	
89	
89	
90	

LI60-20BxxPR2

ROHS CE ROHS CB Report



ı	r roudott rogit	****			E-11/1/234
	Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(% (typ)
	L I 60-20B05PR2	32.5W		5V/6.5A	84
	LI60-20B12PR2	54W	85-264VAC/ 120-370VDC	12V/4.5A	88
	LI60-20B15PR2	60W		15V/4.0A	89
	LI60-20B24PR2	60W		24V/2.5A	90
	LI60-20B48PR2	60W		48V/1.25A	91

LI100-20BxxPR2

Package Dimension

c¶Nus C € RoHS CB Report



Product Progra				
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LI100-20B12PR2	90W		12V/7.5A	88
LI100-20B15PR2	97.5W	85-264VAC/	15V/6.5A	89
LI100-20B24PR2	100.8W	120-370VDC	24V/4.2A	90
LI100-20B48PR2	100.8W		48V/2.1A	90

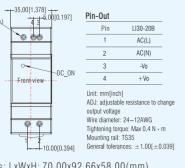
85-264VAC/

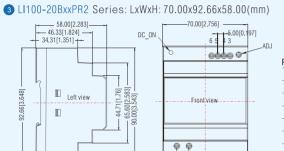
120-370VDC

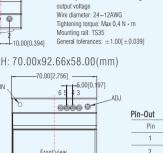
odel number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
1100-20B12PR2	90W		12V/7.5A	88
1100-20B15PR2	97.5W	85-264VAC/	15V/6.5A	89
1100-20B24PR2	100.8W	120-370VDC	24V/4.2A	90
1100-20B48PR2	100.8W		48V/2.1A	90

1 LI30-20BxxPR2 Series: LxWxH: 35.00x92.66x58.00(mm)



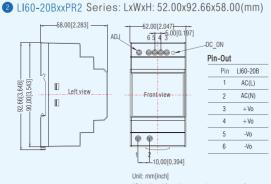






10.00[0.394]

Pin-Out	
Pin	Function
1	AC(L)
2	AC(N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo



ADJ: adjustable resistance to change output voltage Wire diameter: 24-12AWG Tightening torque: Max 0.4 N • m Mounting rail: TS35 General tolerances: $\pm 1.00[\pm 0.039]$

ADJ: adjustable resistance to change output voltage Wire diameter: 24-12AWG Tightening torque: Max 0.4 N - m Mounting rail: TS35 General tolerances: ±1.00[±0.039]

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- Accepts AC or DC input (dual-use of same terminal)
- Efficiency up to 91%
- Low ripple & noise
- Output short circuit, over-current, over-voltage, over-temperature protection
- Compact size: suitable for small chassis and narrow space installation
- Operating altitude up to 5000m
- Meets IEC61000-3-2 harmonic requirements, suitable for lighting circuits





AC/DC DIN-Rail Power Supply

L175-20BxxR2 Product Program

Power

75W

75W

75W

Model number

1175_20R12R2

LI75-20B24R2

LI75-20B48R2

48V/1 6A

	C€ Rol	HS O
,	Output voltage/ curren (Vo1/Io1)	nt Efficiency(%) (typ)
	12V/6.3A	86
	24V/3.2A	89

LI120-20	BxxR2	c ¶∆ us (€ Rol	HS .	
Product Progra	am		(Pendir	1g)
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(% (typ)
LI120-20B12R2S	120W	90-264VAC/	12V/10A	85
LI120-20B24R2S	120W	127-373VDC	24V/5A	88
LI120-20B48R2S	120W		48V/2.5A	89

2 LI120-20BxxR2S Series: LxWxH: 36.00x125.00x100.00(mm)

Package Dimension

1 LI75-20BxxR2 Series: LxWxH: 30.00x128.00x120.00(mm)

Top view

Front view

-- 120.00 [4.724] --

Input voltage range

90-264VAC/

120-373VDC

-6.35 [0.250] -15.24 [0.600] Right view

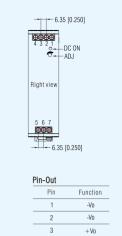
ADJ: adjustable resistance to change output voltage Wire diameter: 26-10AWG Tightening torque: Max 0.4 N • m Mounting rail: TS35, rail needs to connect safety grounded General tolerances: +1 00[+0 039]

Pin-Out Function +Vo+Vo -Vo AC(L) AC(N) (1)

- 100 00 [3 937] Bottom view 8

ADJ: adjustable resistance to change output voltage Wire diameter: 26-10AWG Tightening torque: Max 0.4 N · m Mounting rail: TS35, rail needs to connect safety grounded

General tolerances: $\pm 1.001 \pm 0.0391$



+V0

AC(N)

AC(L)

(1)

ESeries 120-480W Single-phase DIN-Rail Power Supply (With PFC Function)

Features:

- Accepts AC or DC input (dual-use of same terminal)
- Efficiency up to 94%
- Built-in active PFC function
- LED indicator for power on (LIF series)

120W

- Output short circuit, over-current, over-voltage, over-temperature protection
- DC OK function

LIF120-10B48R2

- Meets IEC/EN/UL62368, IEC/EN60079 standards
- LIF120-10BxxR2-EX certified with ATEX. IECEx increased safety type explosion-proof certification



LIF120-10BxxR2 c¶Nus (€ RoHS Product Program Output voltage/ current Efficiency(%) Model number Power Input voltage range LIF120-10B12R2 120W 92 85-264VAC/ LIF120-10B24R2 120W 24V/5A 93 120-373VDC

48V/2.5A

93.5

Product Progran	n			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ I o1)	t Efficiency(%) (typ)
LIF120-10B12R2S-EX LIF120-10B24R2S-EX LIF120-10B48R2S-EX		85-264VAC/ 120-373VDC	12V/10A 24V/5A 48V/2.5A	92 93 93.5

LIF120-10BxxR2S-EX AND CE ATEX JECEX ROHS

LIF240-1	OBxxR	c ¶u s (€ Rol	ıs a		
Product Program					
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)	
LIF240-10B12R2 LIF240-10B24R2 LIF240-10B48R2	192W 240W 240W	85-264VAC/ 120-373VDC	12V/16A 24V/10A 48V/5A	92 94 94	

Product Program (Pending) (Pendin	LIF480-10	BxxR	2	₽ \$\$\use (€ RoH	s a v
Nodel number	Product Prograi	m		(Pendin	
	Model number	Power	Input voltage range		
LIF48U-10B48R2 480W 120-373VD0 48V/10A 94	LIF480-10B24R2 LIF480-10B48R2	480W 480W	85-264VAC/ 120-373VDC	24V/20A 48V/10A	94 94

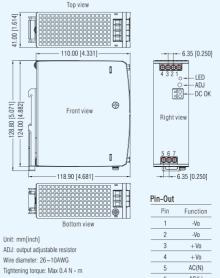
INSERTION

Package Dimension Top view Right view 6.35 [0.250] — 110 00 f4 3311 · Right view 6.35 [0.250] -110 00 [4 331]. 4 3 2 1 DC ON ADJ 0000 **©** - ABJ EEO -Front view 💮 Front view ⊕ 5 6 7 5 6 7 6.35 [0.250] — 118.90 [4.681] — 6.35 [0.250] Pin Function Pin-Out Unit: mm[inch] -Vo Pin Function DC ON: output status indicator LED Unit: mm[inch] ADJ: output adjustable resistor DC ON: output status indicator LED Wire diameter: 26-10AWG ADJ: output adjustable resistor Tightening torque: Max 0.4 N • m +Vn Wire diameter: 26-10AWG +Vn Mounting rail: TS35, rail needs to connect safety grounded Tightening torque: Max 0.4 N · m AC(N) General tolerances: ±1.00[±0.039] AC(L) AC(N) Mounting rail: TS35, rail needs to connect safety grounded AC(L) General tolerances: ±1.00[±0.039] Note: the dimension and layout of this series haven't fixed yet, for detailed information please refer to the latest datasheet.

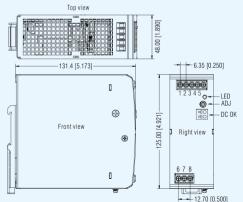
• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Package Dimension

3 LIF240-10BxxR2 Series: LxWxH: 41.00x124.00x110.00(mm) 4 LIF480-10BxxR2 Series: LxWxH: 48.00x125.00x131.40(mm)



Mounting rail: TS35, rail needs to connect safety grounded General tolerances: +1 00[+0 039] Note: the dimension and layout of this series haven't fixed yet. for detailed information please refer to the latest datasheet



Function	
+V0	
+V0	
-Vo	
-Vo	
-Vo	
AC(N)	
AC(L)	
PE	
	+V0 +V0 -V0 -V0 -V0 AC(N) AC(L)

Unit: mm[inch] ADJ: adjustable resistance to change output voltage Wire diameter: 28-10AWG Tightening torque: Max 0.4 N · m Mounting rail: TS35, rail needs to connect safety grounded General tolerances: ±1.00[±0.039]

Note: the dimension and layout of this series haven't fixed yet. for detailed information please refer to the latest datasheet.

LSseries 3-15W DIY Type AC/DC Converter

Features:

- Miniature layout dimension enables flexible installation, suitable for limited space applications
- Ultra-wide input voltage range: 85-305VAC/70-430VDC
- Accepts AC or DC input (dual-use of the same terminal)
- Operating temperature: -40°C to +85°C
- Multi-application available, flexible layout
- Miniature size, high power density, low power consumption, green power
- Controllable lifespan and adjustable cost
- Low standby power consumption 0.1W
- Output short-circuit, over-current and over-voltage protection
- Stable output, low ripple & noise
- Meets IEC/EN61558, IEC/EN60335, IEC/UL/EN62368 standards







LS03-13BxxR3

c¶Nus (€ RoHS CB Report





c¶ C € RoHS CB Report



100	Product Program 🛅					
(%)		Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
		LS05-13B03R3(-F)	3.3W		3.3V/1000mA	69
		LS05-13B05R3(-F)	5W		5V/1000mA	76
		LS05-13B09R3(-F)	5W	85-305VAC/	9V/560mA	77
		LS05-13B12R3(-F)	5W	70-430VDC	12V/420mA	79
		LS05-13B15R3(-F)	5W		15V/340mA	79
		LS05-13B24R3(-F)	5W		24V/210mA	81

Product Progr	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(% (typ)
LS03-13B03R3	1.98W		3.3V/600mA	67
LS03-13B05R3	3W		5V/600mA	72
LS03-13B09R3	3W	85-305VAC/	9V/333mA	76
LS03-13B12R3	3W	70-430VDC	12V/250mA	77
LS03-13B15R3	3W		15V/200mA	78
LS03-13B24R3	3W		24V/125mA	80

LS10-13BxxR3



Product Prog	ram		回教部課	
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LS10-13B03R3	6.6W		3.3V/2000mA	73
LS10-13B05R3	10W		5V/2000mA	77
LS10-13B09R3	10W	85-305VAC/	9V/1100mA	80
LS10-13B12R3	10W	100-430VDC	12V/830mA	82
LS10-13B15R3	10W		15V/670mA	82
LS10-13B24R3	10W		24V/420mA	83

LS10-13BxxR3P





Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LS10-13B03R3P	6.6W		3.3V/2000mA	70
LS10-13B05R3P	10W		5V/2000mA	77
LS10-13B09R3P	10W	85-305VAC/	9V/1100mA	80
LS10-13B12R3P	10W	90-430VDC	12V/830mA	83
LS10-13B15R3P	10W		15V/670mA	83
LS10-13B24R3P	10W		24V/420mA	84

LS15-13BxxSS(-F)

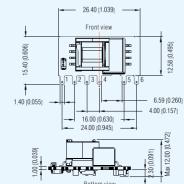
ROHS CB Report SECTION



Product Program					
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)	
LS15-13B03SS(-F)	9.9W		3.3V/3000mA	75	
LS15-13B05SS(-F)	14W		5V/2800mA	77	
LS15-13B09SS(-F)	15W	85-305VAC/	9V/1670mA	82	
LS15-13B12SS(-F)	15W	100-430VDC	12V/1250mA	82	
LS15-13B15SS(-F)	15W		15V/1000mA	84	
LS15-13B24SS(-F)	15W		24V/625mA	85	

- 1. The nominal output voltage refers to the voltage applied to the load terminal after adding external circuits.
- 2. If the product is used in a severe vibration application, it needs to be glued and fixed.
- 3. The layout of 3.3V/5V/9V and 12V/15V/24V outputs are varied due to different modes of rectification.
- 4. An "-F" suffix designates horizontal package vs. standard vertical mounting. For example, the corresponding model with 90-degree bending pins of LS15-13BxxSS is LS15-13BxxSS-F.
- 5. This series has high precision output primary-side feedback type products. If needed please consult our sales.

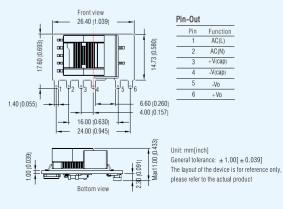
1 LS03-13BxxR3 Series: LxWxH: 26.40 x 12.58 x 11.00 (mm)



Pin-Out	
Pin	Function
1	AC(L)
2	AC(N)
3	+V(CAP)
4	-V(CAP)
5	-Vo
6	11/0

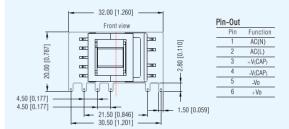
Unit: mm[inch] General tolerance: ± 1,00[± 0,039] The layout of the device is for reference only, please refer to the actual product

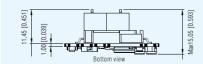
2 LS05-13BxxR3(-F) Series: LxWxH: 26.40 x 14.73 x 11.00(mm)



4 LS10-13BxxR3P Series: LxWxH: 28.84 x 17.20 x 14.05(mm)

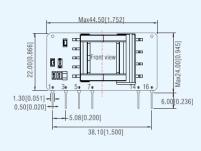
3 LS10-13BxxR3 Series: LxWxH: 32.00 x 17.20 x 15.05 (mm)





General tolerance: ± 1.00[± 0.039] The layout of the device is for reference only, please refer to the actual product

5 LS15-13BxxSS(-F) Series: LxWxH: 44.50 x 24.00 x 15.00(mm)

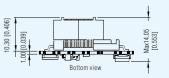




4.50 [0.177]

Pin section tolerance: +0.10[+0.004] General tolerance: +0.50[+0.020]

	ı	28.84 [1.135	i] —	Ē	Pin-Out	Function
_	+	Front view		-	1	AC(N)
•	_			-	2	AC(L)
20.00 [0.787]	2/19			-	3	+V(CAP)
[0.7	9			_	4	-V(CAP)
8	7.2			_	5	-Vo
20	ī				6	+V0
(0.17 4.50	77] — 0 [0.177] 4.50 [0	01 02 03 04	5 6	1.50 [0 4.00 [0		



General tolerance: ± 1.00[± 0.039] The layout of the device is for reference only, please refer to the actual product

> Pin-Out Pin Function AC(N) AC(L) +V(cap)

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[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

LSFseries DIY Type DC/DC Converter (Single-wire)

Features:

- Ultra-wide input voltage range: 85-305VAC/70-430VDC
- Operating temperature: -40°C to +85°C
- Open frame, miniature size
- Efficiency up to 77%
- High reliability, green power
- Industrial grade product technology design
- Flexible choice of EMC peripheral circuits, simplify PCB design layout
- Output short-circuit, over-current protection

Power

Meets EN62368 standards







LS01-K3B05SS

Model number

LS01-K3B05SS







LS	03-	K3 F	R 12	SS
LU	UU-	NOL	7 1 4	UU





Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1
LS03-K3B12SS	3W	85-305VAC/	12V/250mA

LS05-K3BxxSS

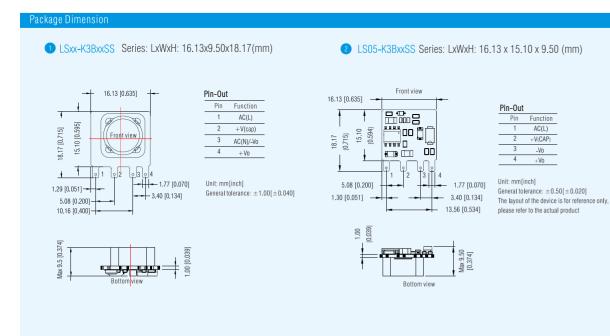


Product Progra	m		
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)
LS05-K3B12SS LS05-K3B15SS LS05-K3B18SS	4W 5W 5W	85-305VAC/ 70-430VDC	12V/330mA 15V/330mA 18V/280mA

85_305VAC/

70-430VDC

Warning: Non-isolated power supply, there is no insulation protection between output and input dangerous voltage, beware of electric shock!



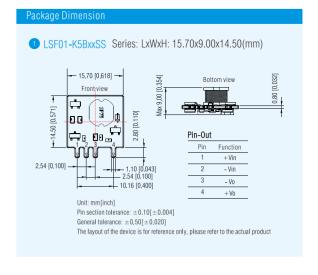
• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- Ultra-low, ultra-wide input voltage range: 8(15)-380VDC
- Operating temperature: -25°C to +85°C
- Ultra-low static current, low ripple & noise
- Compact size
- Output short circuit, over-current protection
- EN62368 safety approval



LSF01-K5BxxSS C € RoHS (Pending) Model number Power Output voltage/ current(Vo1/Io1) LSF01-K5B05SS 0.625W 5.5V/114mA LSF01-K5B12SS 1W 12.5V/83mA



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L D Series 3-60W Cost-effective AC/DC Converter (Campact Size)

Features:



- Compact size
- Operating temperature: -40°C to +85°C
- Isolation voltage 4000VAC
- Low standby power consumption < 0.1W
- Operating altitude up to 5000m
- Plastic case meets UL94V-0 flammability
- EMI performance meets CISPR32/EN55032 CLASS B. EN55014
- IEC/EN/UL62368/EN60335/EN61558 safety approval
- Meets IEC/EN60601-1/ANSI/AAMI ES60601-1 certification standards (2xMOPP)

LD03-23BxxR2

ROHS CB Report









					79/274		
	Product Progr					Product Prog	ram
Model number Power			Input voltage range Output voltage/ current Efficiency(%) (Vo1/Io1) (typ)		Model number	Power	
	LD03-23B03R2	3W		3.3V/900mA	72	LD05-23B03R2	5W
	LD03-23B05R2	3W		5V/600mA	76	LD05-23B05R2	5W
	LD03-23B09R2	3W	85-305VAC/	9V/333mA	78	LD05-23B09R2	5W
	LD03-23B12R2	3W	100-430VDC	12V/250mA	78	LD05-23B12R2	5W
	LD03-23B15R2	3W		15V/200mA	79	LD05-23B15R2	5W
	LD03-23B24R2	3W		24V/125mA	79	LD05-23B24R2	5W

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c RoHS CB Report



Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
LD10-23B03R2	8.6W		3.3V/2600mA	74
LD10-23B05R2	10W		5V/2000mA	79
LD10-23B09R2	10W	85-305VAC/	9V/1100mA	81
LD10-23B12R2	10W	100-430VDC	12V/830mA	84
LD10-23B15R2	10W		15V/660mA	84
LD10-23B24R2	10W		24V/410mA	85



86

87

Product Program							
Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(%) (typ)			
LD20-23B03R2	14.85W		3.3V/4500mA	81			
LD20-23B05R2	20W		5V/4000mA	85			
LD20-23B09R2	20W	85-305VAC/	9V/2200mA	85			
LD20-23B12R2	20W	100-430VDC	12V/1670mA	86			
LD20-23B15R2	20W		15V/1330mA	87			
LD20-23B24R2	20W		24V/830mA	87			

LDE45-20B

LDE45-20B24

LDF45-20B48

45W

45W

c¶Nus (€ RoHS CB Report (13.2.4.4.5)

24V/1.9A

48V/0.94A

				330 3200
Product Program				
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(% (typ)
LDE45-20B05	40W		5V/8A	81
LDE45-20B12	45W	85-264VAC/	12V/3.8A	84
LDE45-20B15	45W	400 0701/00	15V/3A	85

Note: Models with suffix " A2S" is chassis mounting and suffix with "A4S" is DIN-Rail mounting.

100-370VDC

305RAC





LD05-23BxxR2



Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ l o1)	nt Efficiency(%) (typ)
LD05-23B03R2	5W		3.3V/1515mA	71.5
LD05-23B05R2	5W		5V/1000mA	77.5
LD05-23B09R2	5W	85-305VAC/	9V/555mA	80.5
LD05-23B12R2	5W	100-430VDC	12V/416mA	80.5
LD05-23B15R2	5W		15V/333mA	81.5
LD05-23B24R2	5W		24V/208mA	81.5

LD15-23BxxR2

c¶ CE RoHS CB Report



Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)
LD15-23B03R2	13.2W		3.3V/4000mA	82
LD15-23B05R2	15W		5V/3000mA	85
LD15-23B09R2	15W	85-305VAC/	9V/1670mA	84
LD15-23B12R2	15W	100-430VDC	12V/1250mA	85
LD15-23B15R2	15W		15V/1000mA	85
LD15-23B24R2	15W		24V/625mA	86

c¶Nus (€ RoHS CB Report LD20-23BxxR2

LD30-23BxxR2





Product Program					
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)	
LD30-23B05R2 LD30-23B05R2 LD30-23B09R2 LD30-23B12R2 LD30-23B15R2 LD30-23B24R2 LD30-23B48R2	19.8W 30W 30.6W 30W 30W 31.2W 30.2W	85-305VAC/ 100-430VDC	3.3V/6000mA 5V/6000mA 9V/3400mA 12V/2500mA 15V/2000mA 24V/1300mA 48V/630mA	85 86 88 90 90 88	

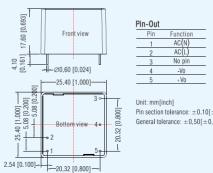
LDE60-20B

c¶Nus C € RoHS CB Report



Product Prog	Product Program 💮 🚉				
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)	
LDE60-20B05 LDE60-20B12 LDE60-20B15 LDE60-20B24 LDE60-20B48	50W 60W 60W 60W	85-264VAC/ 100-370VDC	5V/10000mA 12V/5000mA 15V/4000mA 24V/2500mA 48V/1250mA	84 87 88 89	
LDE00-20B48	DUW		48V/120IIIA	90	

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3 LD15-23BxxR2 Series: LxWxH: 47.60 x 26.80 x 23.50(mm)

∏__ Ø1.00 (0.039)

38.50 [4.55 [0.179]



Pin section tolerance: ±0.10[±0.004] General tolerance: ±0.50[±0.020]

Pin-Out

Unit: mm[inch]

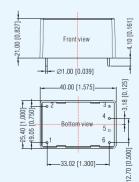
Pin Function

AC(L)

AC(N)

No Pin

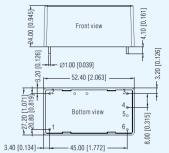
Pin section tolerance: ±0.10[±0.004] General tolerance: ±0.50[±0.020]

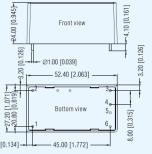


Pin-Out Pin Function AC(L) 2 AC(N) No Pin

Pin section tolerance: +0.10(+0.004) General tolerance: +0.50[+0.020]

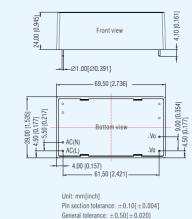
4 LD20-23BxxR2 Series: LxWxH: 52.40 x 27.20 x 24.00(mm)



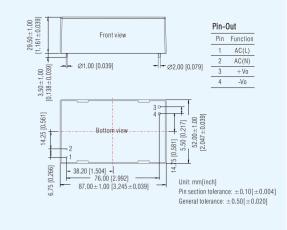


	NO PIN	
6	No Pin	
Unit: mm	[inch]	
Pin sectio	on tolerance	: ±0.10[±0.004
General t	olerance: ±	$0.50[\pm 0.020]$

5 LD30-23BxxR2 Series: LxWxH: 69.50 x 39.00 x 24.00(mm)



6 LDE45/60-20Bxx Series: LxWxH: 87.00x52.00x29.50(mm)



- Suitable for electric power, industrial control and intelligent building applications
- Input voltage range: 90-528VAC/100-745VDC
- Operating temperature: -40°C to +70°C
- Isolation voltage 4000VAC (LD03: 3000VAC)
- Output short-circuit, over-current and over-voltage protection
- IEC/EN/UL62368 approval







LD03-16B

c¶Sus (€ RoHS CB Report



Product Program					1000000000000000000000000000000000000
	Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(%) (typ)
	LD03-16B03	1.65W		3.3V/500mA	63
	LD03-16B05	2.5W		5V/500mA	70
	LD03-16B09	3W	90-528VAC/	9V/333mA	73
	LD03-16B12	3W	100-745VDC	12V/250mA	76
	LD03-16B15	3W		15V/200mA	76
	LD03-16B24	3W		24V/125mA	76

LD10-26B



Product Program					回系統統
	Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ I o1)	nt Efficiency(% (typ)
	LD10-26B03	6.6W		3.3V/2000mA	72
	LD10-26B05	10W		5V/2000mA	76
	LD10-26B09	10W	90-528VAC/	9V/1100mA	78
	LD10-26B12	10W	100-745VDC	12V/900mA	80
	LD10-26B15	10W		15V/700mA	80
	LD10-26B24	10W		24V/450mA	82

LD20-26B





Pin Function

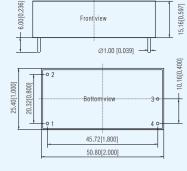
1 AC(N)

2 AC(L) 3 -Vo

Product Program					首逐奏数
	Model number	Power	Input voltage range	Output voltage/ currer (Vo1/ l o1)	nt Efficiency(%) (typ)
	LD20-26B03	11.88W		3.3V/3600mA	74
	LD20-26B05	18W		5V/3600mA	78
	LD20-26B09	20W	90-528VAC/	9V/2230mA	79
	LD20-26B12	20W	100-745VDC	12V/1660mA	82
	LD20-26B15	20W		15V/1330mA	83
	LD20-26B24	20W		24V/833mA	83

Package Dimension

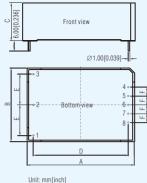
1 LD03-16B Series: LxWxH: 50.80x25.40x15.16(mm)



Pin diameter tolerance: ±0.10[±0.004] General tolerance: $\pm 0.50[\pm 0.020]$

2 I D10/20-26B Series

Pin diam



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Α	
n[inch] neter tolerance: $\pm 0.10[\pm 0.004]$ tolerance: $\pm 0.50[\pm 0.020]$	•

No.	LD10	LD20
A	62.00	70.00
В	45.00	48.00
С	30.00	30.00
D	54.00	62.00
E	17.50	20.00
F	5.00	5.75
G	12.50	12.50
Pin-Out		
Pin	LD10-26B	LD20-26E
1	NC	NC
2	AC(N)	AC(N)
3	AC(L)	AC(L)
4	+Vo	+ Vo

No Pin No Pin

No Pin No Pin

Outine & Dimenions

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- Input voltage range: 85-264VAC/100-370VDC
- Operating temperature: -25°C to +70°C
- Isolation voltage 3000VAC
- Stable output, low ripple & noise
- Output short-circuit, over-current and over-voltage protection
- High efficiency, high reliability
- EMI performance meets CISPR32/EN55032 CLASS B
- LO30 series meets IEC/EN/UL62368, EN60335 standards
- L045 series meets IEC/EN/UL62368 standards
- 2 years warranty





L030-10Axx



Product Progra	am					
Model number	Power	Input voltage range	Output voltage/ current ((Vo1/Io1)	Output voltage/ current (Vo2/ l o2)	Output voltage/ currer (Vo3/Io3)	nt Efficiency(%) (typ)
L030-10A12	30W	85-264VAC/	+12V/1250mA	-12V/1250mA	/	82
L030-10A15	30W	100-370VDC	+15V/1000mA	-15V/1000mA	/	82

LO30-10Dxxxx-xx



Product Program						回答的意外
Model number	Power	Input voltage range	Output voltage/ current (Vo1/Io1)	Output voltage/ current (Vo2/lo2)	Output voltage/ curre (Vo3/lo3)	nt Efficiency(%) (typ)
L030-10D0505-30	30W	85-264VAC/	5V/3000mA	5V/3000mA	/	79
L030-10D0512-15	30W	100-370VDC	5V/2520mA	12V/1440mA	/	81
L030-10D0524-10	30W	100-370400	5V/1440mA	24V/960mA	/	84

LO45-10Cxxxx-xx

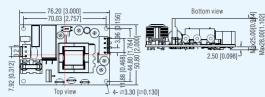


2 L045-10Cxx Series: LxWxH: 102.00x51.00x27.50(mm)

Product Program							
	Model number	Power	Input voltage range	Output voltage/ current ((Vo1/ I o1)	Output voltage/ current (Vo2/ l o2)	Output voltage/ currer (Vo3/Io3)	nt Efficiency(%) (typ)
	L045-10C050512-20	40.5W	85-264VAC/	5V/3000mA	12V/2000mA	-5V/300mA	78
	L045-10C051212-20	42.6W	100-370VDC	5V/3000mA	12V/2000mA	-12V/300mA	78
	L045-10C051515-16	43.5W	100-370400	5V/3000mA	15V/1600mA	-15V/300mA	78

Package Dimension

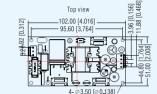
1 L030-10Axx/L030-10Dxx Series: LxWxH: 76.20x50.80x28.00(mm)

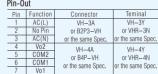


- 11	i iii-out					
	Pin	Function	Connector	Teminal		
_	1	AC(L)	VH-3A	VH-3Y		
	2	No Pin	or B2P3-VH	or VHR-3N		
	3	AC(N)	or the same Spec.	or the same Spec.		
Ξ	4	Vo2	VH-4A	VH-4Y		
	5	COM2	or B4P=VH	or VHR-4N		
	6	COM1		or the same Spec.		
	7	Vo1	or the same open.	UI THE SAITE SPEC		

 Unit: mm[inch] General tolerance: +0.50(+0.020) Type A: COM1 is electrically connected to COM2 In JP1 model: VH-3A,Recommend terminal: VH-3Y

Out JP2 model: VH-4A, Recommend terminal: VH-4Y Mounting hole screwing torque: Max 0.4 N ·m The layout of the device is for reference only, please refer to the actual product







General tolerance: +0.50[+0.020] In JP1 model: VH-3A Recommend terminal: VH-3Y r the same Spec. Out JP2 model: VH-4A, Recommend terminal: VH-4Y Mounting hole screwing torque: Max 0.4 N ·m The layout of the device is for reference only, please

[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

LOSeries 3-65W Cost-effective Open Frame AC/DC Converter (Single Output)

Features:

• Input voltage range: 85-264VAC/100-370VDC L005: 165-264VAC/230-370VDC

- Operating temperature: -25°C to +70°C
- Isolation voltage 3000VAC
- Stable output, low ripple & noise
- Output short-circuit, over-current and over-voltage protection
- High efficiency, high reliability
- EMI performance meets CISPR32/EN55032 CLASS B
- 15-30W series meet IEC/EN/UL62368, EN60335 standards 45-65W series meet IEC/EN/UL62368 standards
- 2 years warranty (LO30: 3 years warranty)





L003-10Bxx

RoHS	

Product Program				
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
L003-10B03	2.3W		3.3V/700mA	69
L003-10B05	3W		5V/600mA	73
L003-10B09	3W	85-264VAC/	9V/330mA	76
L003-10B12	3W		12V/250mA	78
L003-10B15	3W	100-370VDC	15V/200mA	78
L003-10B24	3W		24V/125mA	79

L010-13Bxx





Product Program					企業要
	Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
	L010-13B03	6.6W		3.3V/2000mA	73
	L010-13B05	10W		5V/2000mA	78
	L010-13B09	10W	85-305VAC/	9V/1100mA	79
	L010-13B12	10W	·	12V/900mA	81
	L010-13B15	10W	100-430VDC	15V/700mA	81
	L010-13B24	10W		24V/450mA	81

L030-10Bxx





Product Program				
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
L030-10B03	13.5W		3.3VDC/4100mA	73
L030-10B05	20.5W		5VDC/4100mA	78
L030-10B09	30W		9VDC/3333mA	82
L030-10B12	30W	85-264VAC/	12VDC/2500mA	84
L030-10B15	30W	100-370VDC	15VDC/2000mA	86
L030-10B24	30W	100 010100	24VDC/1250mA	87
L030-10B48	30W		48VDC/625mA	88

L065-10Bxx

c¶Nus (€ RoHS CB Report



Product Program				通線線 管
Model number	Power	Input voltage range	t Efficiency(%) (typ)	
L065-10B05 L065-10B09 L065-10B12 L065-10B15 L065-10B24 L065-10B48	50W 60W 65W 65W 65W	85-264VAC/ 100-370VDC	5V/10000mA 9V/6600mA 12V/5420mA 15V/4340mA 24V/2710mA 48V/1360mA	80 83 85 85 87

L005-12Bxx

RoHS	
	12 N. W.

Product Prog	ram			
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)
L005-12B03	3.3W		3.3V/1000mA	66
L005-12B05	5W		5V/1000mA	73
L005-12B09	5W	165-264VAC/	9V/550mA	75
L005-12B12	5W		12V/420mA	77
L005-12R15	5W	230-370VDC	15V/330mA	77

L015-10Bxx

L005-12B24

5W



24V/210mA



Product Progr	am		回解網歷	
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ I o1)	nt Efficiency(%) (typ)
L015-10803 L015-10805 L015-10809 L015-10812 L015-10815 L015-10824	9W 14W 15W 15W 15W	85-264VAC/ 100-370VDC	3.3V/3000mA 5V/2800mA 9V/1600mA 12V/1250mA 15V/1000mA 24V/625mA	72 76 78 81 81 82

L045-10Bxx

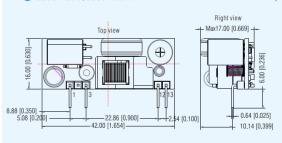
c¶Lus (€ RoHS CB Report



Product Prog	ram		回答然發起	
Model number	Power	Input voltage range	Output voltage/ curre (Vo1/ l o1)	nt Efficiency(%) (typ)
L045-10B03	26.4W		3.3V/8000mA	76
L045-10B05	40W		5V/8000mA	82
L045-10B09	40W		9V/4444mA	84
L045-10B12	45W	85-264VAC/	12V/3750mA	84
L045-10B15	45W	100-370VDC	15V/3000mA	86
L045-10B24	45W	100 010100	24V/1875mA	86
L045-10B48	45W		48V/940mA	87

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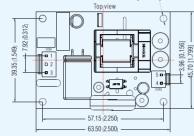
1 L003-10Bxx/L005-12Bxx Series: LxWxH: 42.00x16.00x17.00(mm)



Pin-Out					
Pin	Function	Pin	Function		
1	AC(N)	12	+V0		
3	AC(L)	13	-Vo		

Unit: mm[inch] Connect nin size: +0.64[0.025] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerance: ±0.50[±0.020]

3 L015-10Bxx Series: LxWxH: 63.50x45.70x19.00(mm) Ø3.30 [Ø0.130]



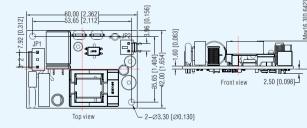


Pin-Out		
Pin	Function	
1	AC(L)	
2	No Pin	
3	AC(N)	

+Vn

Unit: mm[inch] General tolerance: $\pm 0.50[\pm 0.020]$ In CON1 model: VH-3A, Recommend terminal: VH-3Y Out CON2 model: VH-2A, Recommend terminal: VH-2Y Mounting hole screwing torque: Max 0.4 N · m

2 L010-13Bxx Series: LxWxH: 60.00x42.00x16.30 (mm)



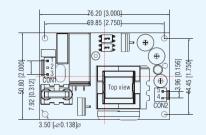
	Pin-Out					
Pin	Function	Connector	Teminal			
1	AC(L)	VH-3A	VH-3Y			
2	NoPin	or B2P3-VH	or VHR-3N			
3	AC(N)	or the same Spec.	or the same Spec.			
4	+V0	VH-2A or B2P-VH	VH-2Y or VHR-2N			
5	.Vo	or the same Spec.	or the same Spec.			

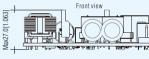
Unit: mm[inch] General tolerance: +0.50(+0.020) In JP1 model: VH_3A Recommend terminal: VH_3V Out JP2 model: VH-2A Recommend terminal: VH-2Y Mounting hole screwing torque: Max 0.4 N ·m The layout of the device is for reference only, please

+Vo

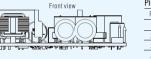
AC/DC Converter

4 L030-10Bxx Series: LxWxH: 76.20x50.80x27.00(mm)

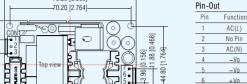




Unit: mm[inch]



General tolerance: $\pm 0.50[\pm 0.020]$ In CON1 model: VH-3A, Recommend terminal: VH-3Y Out CON2 model: VH-2A, Recommend terminal: VH-2Y Mounting hole screwing torque: Max 0.4 N · m



5 L045-10Bxx/L065-10Bxx Series: LxWxH: 76.20x50.80x30.00(mm) 76 20 [3 000]



Unit: mm[inch] General tolerance: ±0.50[±0.020] In CON1 model: VH-3A. Recommend terminal: VH-3Y Out CON2 model: VH-4A, Recommend terminal: VH-4Y Mounting hole screwing torque: Max 0.4 N · m

- Standard package, suitable for industrial control application requiring high EMC performance
- Input voltage range: 85-264VAC/100-370VDC (LH60-20Bxx-DT: 55-264VAC/77-370VDC)
- Isolation voltage 4000VAC (LH40: 3000VAC)
- Effiency up to 87%
- Low ripple & noise
- Output short-circuit, over-current and over-voltage protection

• EMI performance meets CISPR32/EN55032 CLASS B

• Optional packages: PCB mounting, chassis mounting, DIN-Rail (TS35) mounting







A2 Chassis Mounting

A6 DIN-Rail Mounting A4 DIN-Rail Mounting

• IEC/EN/UL62368, IEC/UL/EN60950 approval

	LH	IE0	5-2	CA ₀	XXX
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oHS	
oltage/	Efficiency(%)

Model number Pov	ver	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ l o2)	Efficiency(%) (typ)
LHE05-20A05** 5' LHE05-20A12** 5' LHE05-20A15** 5'	W	85-264VAC/ 100-370VDC	+5V/500mA +12V/210mA +15V/160mA	-5V/500mA -12V/210mA -15V/160mA	73 77 77

LHE05-20Dxxxx-xx



Product Progra					高級	
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/Io2)	Efficiency(%) (typ)	
HE05-20D0505-01	5W		5V/900mA	5V/100mA	70	
HE05-20D0512-01	5W	85-264VAC/	5V/750mA	12V/100mA	72	
HE05-20D0515-01	5W	100-370VDC	5V/700mA	15V/100mA	72	
HE05-20D0524-01	5.4W		5V/600mA	24V/100mA	74	

LHE10-20Cxxxx-xx



Product Program						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ l o2)	Efficiency(%) (typ)	
_HE10-20C0512-02 _HE10-20C0515-02		85-264VAC/ 100-370VDC	5V/1000mA 5V/900mA	± 12V/200mA ±15V/200mA	75 75	

LHE15-20Axxxx



Product Program						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/Io2)	Efficiency(%) (typ)	
LHE15-20A05**	15W	85-264VAC/	+5V/1500mA	-5V/1500mA	76	
LHE15-20A12**	15W	85-264VAC/ 100-370VDC	+12V/650mA	-12V/650mA	80	
LHE15-20A15**	15W		+15V/500mA	-15V/500mA	81	

LHE15-20Dxxxx-xx



Product Program						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ l o2)	Efficiency(%) (typ)	
LHE15-20D0505-08	15W		5V/2000mA	5V/800mA	76	
LHE15-20D0512-04	15W	85-264VAC/	5V/2000mA	12V/400mA	78	
LHE15-20D0524-02	15W	100-370VDC	5V/2000mA	24V/200mA	78	
LHE15-20D0524-04	15W		5V/1000mA	24V/400mA	80	

LHE05-20Cxxxx



Product Program						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/lo2)	Efficiency(%) (typ)	
LHE05-20C0505-01 LHE05-20C0512-01 LHE05-20C0515-01	5.4W	85-264VAC/ 100-370VDC	5V/800mA 5V/600mA 5V/600mA	±5V/100mA ±12V/100mA ±15V/80mA	70 73 74	

LHE10-20Axxxx



Product Program						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/lo2)	Efficiency(%) (typ)	
LHE10-20A05** LHE10-20A12** LHE10-20A15**	10W 10W 10W	85-264VAC/ 100-370VDC	+5V/1000mA +12V/450mA +15V/350mA	-5V/1000mA -12V/450mA -15V/350mA	76 80 81	

LHE10-20Dxxxx-xx



	UDX	110110			
rogi					
ber	Power	Input voltage range	Output voltage/	Output voltage/	Ef

Model number	Dowor	Input voltage range	Output voltage/	Output voltage/	Efficiency(%)
Model Hallinei	LOWEI	input voltage range	current(Vo1/Io1)	current(Vo2/Io2)	(typ)
LHE10-20D0505-02	10W		5V/1800mA	5V/200mA	75
LHE10-20D0512-02	10W	85-264VAC/	5V/1500mA	12V/200mA	78
LHE10-20D0515-02	10W	100-370VDC	5V/1400mA	15V/200mA	79
LHE10-20D0524-02	10W		5V/1000mA	24V/200mA	80

LHE15-20Cxxxx-xx



Product Progra			首都發起		
Model number	Power	Input voltage range	Output voltage/ current(Vo1/lo1)	Output voltage/ current(Vo2/ l o2)	Efficiency(% (typ)
LHE15-20C0505-05	15W	85-264VAC/	5V/2000mA	± 5V/500mA	75
LHE15-20C0512-02	15W	100-370VDC	5V/2000mA	±12V/200mA	77
LHE15-20C0515-02	15W	100-3/0000	5V/1800mA	±15V/200mA	78

LHE20-20Avvv



-15/650mA

82

LIILZU-Z	IILZU-ZUMAAAA ROHS							
Product Program								
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ l o2)	Effic			
LHE20-20A12**	20W	85-264VAC/	+12V/830mA	-12V/830mA	Т			

+15/650mA

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LHE20-20A15** 20W 100-370VDC

I HF20-20Cxxxx-xx

Model number Power Input voltage range

LHE20-20C0512-04 20W 85-264VAC/

LHE20-20C0515-03 20W 100-370VDC

Front view

40.50 [1.594]

- | - ø 1.00 [0.039]

RoHS PARTE

	Rono		
			Р
	Output voltage/ Ef current(Vo2/Io2)	fficiency(%) (typ)	М
5V/2000mA	± 12V/400mA	78	LHE
5V/2000mA	±15V/300mA	79	LHE

LHE20-20	RoHS				
Product Progra	am				
Model number P	ower I r	nput voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ I o2)	Efficiency(%) (typ)
LHE20-20D0512-06	20W	85-264VAC/	5V/2500mA	12V/600mA	78
LHE20-20D0515-05	20W	100-370VDC	5V/2500mA	15V/500mA	78
LHE20-20D0524-03	20W	100 070000	5V/2500mA	24V/300mA	78

- 1. Standard LHE series meet the requirements of surge level of ±1KV/2KV (level three). If the application requires higher performance for surge, our LH-ER2 series for ±2KV/4KV (level four) and recommended peripheral circuits for ±2KV/4KV (level four) are available
- 2. If the application requires higher performance for surge, our matching EMC auxiliary devices are available. For example, the standard LHE(05-25) series matching with FC-LX1D are able to reach + 2KV/4KV (level four)
- 3. Product packages are available with A2 chassis mounting and A4 DIN-Rail mounting, detailed application please refer to the datasheet.

Unit: mm[inch]

Pin | LHE05-20A | LHE05-20C | LHE05-20D

AC(N)

AC(L)

+Vo2

COM

-Vo2

+Vo1

-Vn1

AC(N)

AC(L)

No Pin

+Vo1

AC(N)

AC(L)

+V0

No Pin COM

No Pin

-Vn

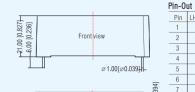
Pin section tolerance: ±0.10[±0.004] General tolerance: $\pm 0.50[\pm 0.020]$

4. Products marked with "**" feature that Vo2 is the main circuit. Other products feature that Vo1 is the main circuit.

1 LHE05-20A/C/Dxx Series: LxWxH: 48.50x36.00x20.50(mm)

6.00 [0.236]

2 LHE10-20A/C/Dxx Series: LxWxH: 109.00x58.50x30.00(mm)

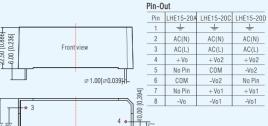


	Pin	LHE10-20A	LHE10-20C	LHE10-20
	1	÷	÷	÷
	2	AC(N)	AC(N)	AC(N)
	3	AC(L)	AC(L)	AC(L)
┰	4	+Vo	+Vo2	+Vo2
) -	5	No Pin	COM	-Vo2
=	6	COM	-Vo2	No Pin
0.00 [0.394]	7	No Pin	+Vo1	+Vo1
J.S.	8	-Vo	-Vo1	-Vo1
# 12				

47 00 [1 850]

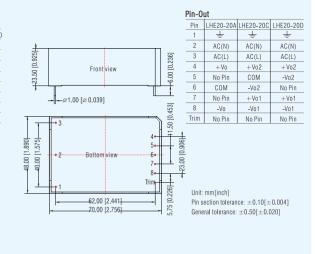
Unit: mm[inch] Pin section tolerance: ±0.10[±0.004] General tolerance: ±0.50[±0.020]

3 LHE15-20A/C/Dxx Series: LxWxH: 62.00x45.00x22.50(mm)



Unit: mm[inch] Pin section tolerance: ±0.10[±0.004] -54.00 [2.126] General tolerance: ±0.50[±0.020]

4 LHE20-20A/C/Dxx Series: LxWxH: 70.00x48.00x23.50(mm)



- Specific power supply designing for smart grid
- Ultra-thin design, the height of the product does not exceed 22mm
- Ultra-wide input voltage range: 85-264VAC/88-370VDC
- Ultra-wide operating temperature: -40°C to +85°C
- High reliability, low ripple & noise
- EMI performance meets CISPR32/EN55032 CLASS B
- Immunity meets electricity standard Level 4
- Meets impulse voltage requirements of 1.2/50us 5KV
- Meet UL/EN/IEC62368 standards

15W

16.8W

• EN62368 safety approval

L015-23B15E

L015-23B24E



L015-23BxxE				C€ RoH	S
Product Program					
	Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
	L015-23B03E	9.9W		3.3V/3000mA	71
	L015-23B05E	15W	85-305VAC/	5V/3000mA	78
	L015-23B12E	15.6W	00-3037AC/	12V/1300mA	83

15V/1000mA

24V/700mA

84

85



L050-23E	BxxE		C€ RoH	S PAND
Product Progra	am			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
L050-23B03E	33W		3.3V/10A	84
L050-23B05E	50W		5V/10A	86
L050-23B09E	50.4W		9V/5.6A	86
L050-23B12E	50.4W	85-305VAC/	12V/4.2A	86
L050-23B15E	51W	88-430VDC	15V/3.4A	86
L050-23B24E	50.4W		24V/2.1A	87
L050-23B27E	51.3W		27V/1.9A	88
L050-23B48E	52.8W		48V/1.1A	89

L075-20E	BxxE		C€ RoH	
Product Progr	am			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
L075-20B03E	39.6W		3.3V/12A	82
L075-20B05E	60W		5V/12A	84
L075-20B09E	75.6W		9V/8.4A	86
L075-20B12E	76.8W	85-264VAC/	12V/6.4A	88
L075-20B15E	75W	88-370VDC	15V/5A	88
L075-20B24E	76.8W		24V/3.2A	89
L075-20B27E	75.6W		27V/2.8A	89
L075-20B48E	76.8W		48V/1.6A	90

L010-261	RoHS				
Product Progra					
Model number	Power I	Input voltage range	Output voltage/ current(Vo1/Io1)		Efficiency(%) (typ)
L010-26D0512-04L	10.92W	57-528VAC/ 80-745VDC	5.1VDC/1.2A	12VDC/0.4A	78

LU15-261	RoHS				
Product Progr	am				
Model number	Power	Input voltage range	Output voltage/ current(Vo1/Io1)	Output voltage/ current(Vo2/ l o2)	Efficiency(% (typ)
L015-26D1305-03	15W	57-528VAC/ 80-745VDC	13.5VDC/1.0A	5VDC/0.3A	78

Note: 1. 05V/24A and 05V/15A outputs customization is acceptable.

2. If the application requires higher performance for EMC, please refer to the recommended peripheral circuit in the datasheet.

同報25年4月



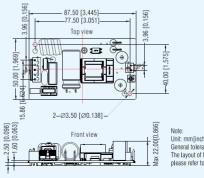
nnectors Pin Mark

3 AC(N)

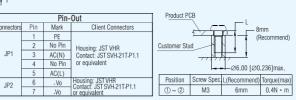
4 Nn Pin

5 AC(L)

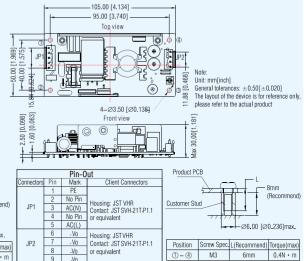






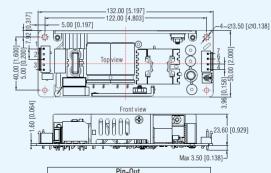


2 L030-23Bxx-E Series: LxWxH: 105.00 x 50.00 x 30.00(mm)



3 L050-23Bxx-E Series: LxWxH: 132.00 x 50.00 x 27.10(mm)

Client Connectors

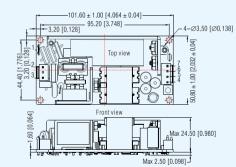


	Pin-Out								
Connectors	Pin	Product Connector	Client Connectors						
1	PE	JST B5P-VH							
2	AC(N)	or equivalent	Housing: JST VHR Contact: JST SVH-21T						
3	AC(L)								
- 4	+V0	JST B4P-VH	P1.1 or equivalent						
6		or equivalent							
7	-Vo	or oquitatorit							

Unit: mm[inch] General tolerance: ± 1.00[± 0.039]

The layout of the device is for reference only, please refer to the actual product

4 L075-20Bxx-E Series: LxWxH: 101.60 x 50.80 x 27.00(mm)



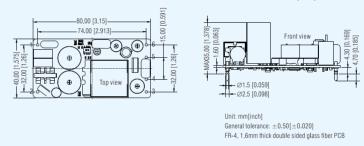
		riii-Out		
Connectors	Pin	Product Connector	Client Connectors	
1	PE	DEGSON K12	KST FDD 5.5-250 or equivalent	
2	AC(N)	JST B3P-VH		
3	AC(L)	or equivalent	Housing: JSTVHR	
4	-Vo		Contact:JSTSVH-21T-	
5	-٧0	JST B4P-VH	P1.1or equivalent	
6	+V0	or equivalent	1 1.101 oquitatorit	
7	+V0			

Unit: mm(inch)

General tolerance: ± 0.50f ± 0.0201

The layout of the device is for reference only, please refer to the actual product

5 L010-26Dxxxx-xxL/L015-26Dxxxx-xx Series: LxWxH: 80.00x40.00x35.00(mm)



Pin	Name	Function Define
1	AC(L)	AC voltage line wire(L wire) or DC voltage positive
2	AC(N)	AC voltage neutral wire(N wire) or DC voltage negative
3	+V02	The second output positive(+)
4	-Vo2	The second output negative(-)
5	-Vo1	The first output voltage negative(-)
6	+V01	The first output voltage positive (+)

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[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

• Input voltage range: LO20: 165-264VAC/230-370VDC L030: 85-264VAC/100-370VDC

- Isolation voltage 3000VAC
- Triple outputs, high output voltage accuracy
- Efficiency up to 78%
- Output short circuit, over-current, over-voltage protection
- Safety Class: CLASS II
- Meets IEC60950 standard



LO20-26Dxxxx-xx



Product Progran	n				
Model number	Power	Input voltage range	Output voltage/ current (Vo1/lo1)	Output voltage/ current (Vo2/lo2)	Efficiency(%) (typ)
L020-26D1212-05	24.2W	165-480VAC/230-680VDC	12.15VDC/1500mA	12VDC/500mA	80

L010-24BxxK



Product Program				
Model number	Power	Input voltage range	Output voltage/ current (Vo1/lo1)	Efficiency(%) (typ)
L010-24B05K	6W	00.000//0/	5V/1200mA	71
L010-24B12K	6.6W	30-280VAC/ 30-400VDC	12V/550mA	77
L010-24B13K	6.5W	30-400VDC	13V/500mA	77

LO20-10Cxxxx-xx



Product Prograi						
Model number	Power	Input voltage range	Output voltage/ current(Vo1/ l o1)	Output voltage/ current(Vo2/ l o2)	Output voltage/ current(Vo3/ l o3)	Efficiency(%) (typ)
L020-10C0512-05	17.8W	85-264VAC/100-370VDC	5V/2000mA	12V/500mA	-12V/150mA	79
L020-10C0512-01	18.7W	165-264VAC/230-370VDC	5V/500mA	12V/1200mA	-12V/150mA	78

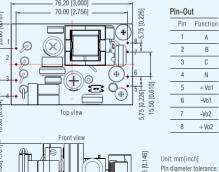
LO30-10Cxxxx-xx





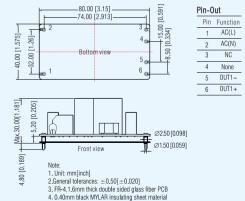
	Product Program						
Model number Power		Power	Input voltage range	Output voltage/ current(Vo1/ l o1)	Output voltage/ current(Vo2/ l o2)	Output voltage/ current(Vo3/Io3)	Efficiency(%) (typ)
	L030-10C0512-12	31.2W	85-264VAC/100-373VDC	5V/3000mA	12V/1200mA	-12V/150mA	78
	L030-10C0512-20	35.2W	85-264VAC/100-370VDC	12V/2000mA	5V/2000mA	-12V/100mA	78

1 L020-26Dxxxx-xx Series: LxWxH: 76.20 x 50.80 x 30.00(mm)



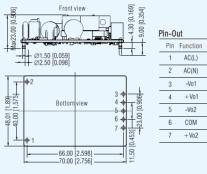
Pin diameter tolerance: +0.10(+0.004) General tolerance: +0.50[+0.020] The layout of the device is for reference only.

2 L010-24BxxK Series: LxWxH: 80.00 x 40.00 x 30.00(mm)



3 L020-10C0512-01 Series: LxWxH: 70.00 x 48.00 x 23.50(mm)

Ø2.00 [0.079]



Unit: mm[inch] General tolerance: ±0.50[±0.020]

1020-10C0512-05 Series: LxWxH: 70.00 x 48.00 x 23.00(mm)

Pin-Out Pin Function

1 AC(L)

AC(N)

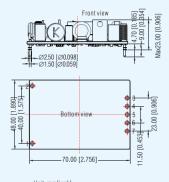
-Vo1

- Vo1

-Vo2

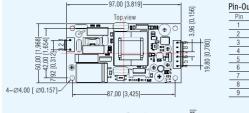
COM

+Vn2



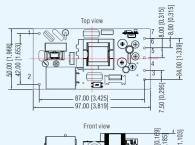
Unit: mm[inch] Pin section tolerance: ±0.10[±0.004] General tolerance: ±0.50[±0.020]

4 L030-10C0512-12 Series: LxWxH: 97.00x50.00x28.00(mm)



General tolerance: ±1.00(±0.039) The layout of the device is for reference only, please refer to the actual product

L030-10C0512-20 Series: LxWxH: 97.00x50.00x28.00(mm)



Pin section tolerance: +0.10[+0.004] General tolerance: $\pm 1.001 \pm 0.0391$

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Specialized for Medical 5-65W AC/DC Converter for Medical

Features:

- EN60601-1, ANSI/AAMI ES60601-1 approval (2xMOPP)
- Input voltage range: 85-264VAC/100-370VDC
- Operating temperature: -40°C to +70°C
- Isolation voltage 4000VAC
- Operating altitude up to 5000m
- Low standby power consumption < 0.1W
- Low leakage current < 100uA
- Ripple & noise: 50mV (Typ.)
- Output short circuit, over-current, over-voltage protection
- Optional packages: PCB mounting, chassis mounting, DIN-Rail (TS35) mounting





LD05-20BxxMU





iency(%) (typ)	

Product Progra				
Model number	Power	Input voltage range	Output voltage/ current (Vo1/ l o1)	Efficiency(%) (typ)
LD05-20B05MU	5W		5V/1000mA	76
LD05-20B12MU	5W	85-264VAC/	12V/420mA	80
LD05-20B15MU	5W	100-370VDC	15V/333mA	81
LD05-20B24MU	5.5W		24V/230mA	81

LH

1	5-20	BxxMU	RoHS	c S
		DAAIIIO		•

15W

15W



Product Progra				
Model number	Power	Input voltage range	Output voltage/ current (Vo1/ i o1)	Efficiency(%) (typ)
LH15-20B05MU	14W		5V/2800mA	78
LH15-20B12MU	15W	85-264VAC/	12V/1250mA	83
LH15-20B15MU	15W	100-370VDC	15V/1000mA	83

LH25-20BxxMU

LH25-20B24MU

RoHS : Rus (E



Product Progra	am			
Model number	Power	Input voltage range	Output voltage/ current (Vo1/ l o1)	Efficiency(%) (typ)
LH25-20B05MU	20.5W		5V/4100mA	82
LH25-20B12MU	25W	05.00.04.04	12V/2100mA	88
LH25-20B15MU	25W	85-264VAC/ 100-370VDC	15V/1600mA	88
LH25-20B18MU	25W	100-370000	18V/1400mA	88

LO45-20BxxMU

LH15-20B18MU

LH15-20B24MU



18V/833mA

24V/625mA



84

86

Product Progr	am	(Pending)		
Model number	Power	Input voltage range	Output voltage/ current (Vo1/ I o1)	Efficiency(%) (typ)
L045-20B03MU	26.4W	85-264VAC/ 100-370VDC	3.3V/8000mA	82
L045-20B05MU	40W		5V/8000mA	84
L045-20B12MU	45W		12V/3750mA	86
L045-20B15MU	45W		15V/3000mA	86
L045-20B24MU	45W		24V/1875mA	90
L045-20B36MU	45W		36V/1250mA	90
L045-20B48MU	45W		48V/940mA	90

L065-20BxxMU

25W

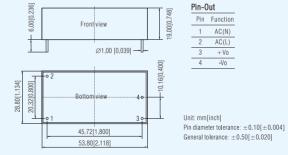
24V/1100mA



Product Progra	am		(Pendin	g) 🖹 🧱
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(% (typ)
L065-20B03MU	33W		3.3V/10000mA	84
L065-20B05MU	50W		5V/10000mA	85
L065-20B12MU	65W	05.0047/407	12V/5420mA	89
L065-20B15MU	65W	85-264VAC/	15V/4340mA	90
L065-20B24MU	65W	100-370VDC	24V/2710mA	90
L065-20B36MU	65W		36V/1810mA	91
L065-20B48MU	65W		48V/1360mA	91

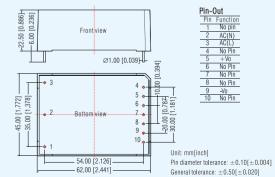
- 1. Models meet the requirements of surge level of ±1KV. If the application requires higher performance for surge, our recommended peripheral circuits for 4KV (level four) are available. 2. If the application requires higher performance for surge, our matching EMC auxiliary devices are available. For example, products matching with FC-LX1D are able to reach 4KV (level four). 3. LH-MU series meet the requirements of $\pm 1 \text{KV}$ surge level. If the application requires higher performance, please refer to our recommended circuit.
- 4. Detailed application please refer to the datasheet.

1 LD05-20BxxMU Series: LxWxH: 53.80x28.80x19.00(mm)

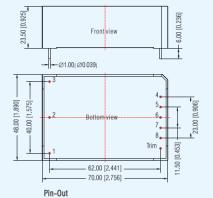


Note: A2 chassis mounting and A4 DIN-Rail mounting is available for these products. Customization is acceptable.

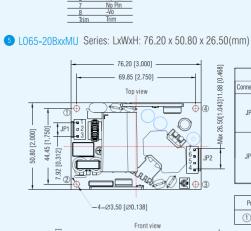
2 LH15-20BxxMII Series: LxWxH: 62 00 x 45 00 x 22 50 (mm)





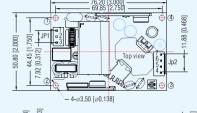


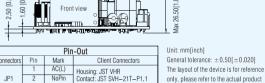
Unit: mm[inch] Pin diameter tolerance: ±0.10[±0.004] General tolerance: $\pm 0.50[\pm 0.020]$





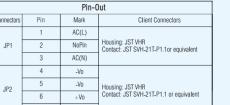
4 L045-20BxxMU Series: LxWxH: 76.20 x 50.80 x 26.50(mm)





6mm

-Vn 5 -Vo Housing: JSTVI
Contact: JSTSI
or equivalent Housing: JST VHR Contact: JST SVH-21T-P1.1 Position Screw Spec. L(Recommend) Torque(max)



M3

(1) - (4)

Position	Screw Spec.	L(Recommend)	Torque(max)	Product PCB
1 - 4	M3	6mm	0.4N • m	8mm
	e: ±0.50[±0.020 device is for refer] ence only, please		Recommend Sustomer Stud product Max Ø5.50 [Ø0.217]

-Max Ø5.50 (Ø0.217)

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- Specially designed for electrical equipment in the coal mining industry
- Ultra-wide input voltage range: 85-850VAC/85-900VAC/460-1500VAC
- Industrial grade operating temperature: -25°C to +70°C
- Isolation voltage 4000VAC
- High reliability, high efficiency, long lifespan
- Output short circuit, over-current and over-voltage protection
- Ultra-low input impulse current
- EMS: immunity, EFT/Surge: ±4KV perf. Criteria B (The surge immunity of PVA120-27Bxx-C series is $\pm 2KV$)



	PVA40-2				
	Product Progr	am			
Model number Power		Input voltage range Output voltage/ curre (Vo1/Io1)		Efficiency(%) (typ)	
	PVA40-26B12	40W		12V/3400mA	82
	PVA40-26B28	40W	460-1500VAC	28V/1430mA	85
	PVA40-26B35	40W		35V/1150mA	85

PVA40-2	7B		RoHS	
Product Progr	am			
Model number	Power	Input voltage range	Output voltage/ curren (Vo1/ l o1)	t Efficiency(%) (typ)
PVA40-27B18	40W		18V/2222mA	86
PVA40-27B24	40W	85-900VAC	24V/1667mA	86
PVA40-27B30	40W		30V/1333mA	86

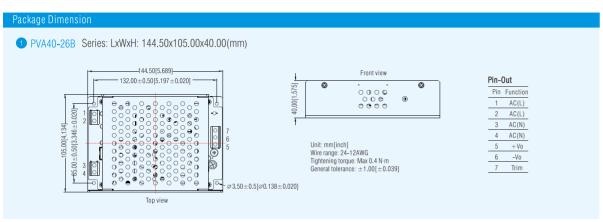
massarm

	PVA70-2	RoHS			
	Product Progr	am			
Model number Power		Input voltage range	Output voltage/ current (Vo1/ I o1)	Efficiency(%) (typ)	
	PVA70-27B24	70W		24V/2917mA	87
	PVA70-27B28	70W	85-900VAC	28V/2500mA	87
	PVA70-27B35	70W		35V/2000mA	87

PVA120-27B Product Program				RoHS	
Model number Power		Power	Input voltage range	Output voltage/ current (Vo1/ l o1)	Efficiency(%) (typ)
	PVA120-27B24	120W		24V/5A	82
	PVA120-27B28	120.4W	85-900VAC	28V/4.3A	82
	PVA120-27B35	122.5W		35V/3.5A	82

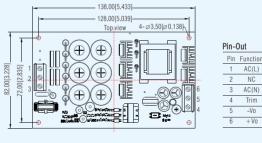
	Product Progr				
Model number Power		Power	Input voltage range	Output voltage/ current (Vo1/ l o1)	Efficiency(%) (typ)
	PVA120-27B30-C	120W	05 000040	30V/4A	82
	PVA120-27B35-C	122.5W	85-900VAC	35V/3.5A	82

PVA150-	27B		RoHS	
Product Prog	ram			
Model number Power		Input voltage range	Output voltage/ current (Vo1/ l o1)	t Efficiency(%) (typ)
PVA150-27B24	150W		24V/6.25A	87
PVA150-27B28	150W	85-850VAC	28V/5.36A	87
PVA150-27B35	150W		35V/4.3A	87



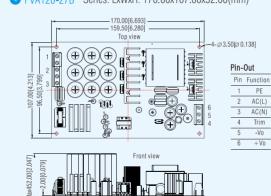
• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

2 PVA40-27B Series: LxWxH: 138.00x82.00x32.00(mm)



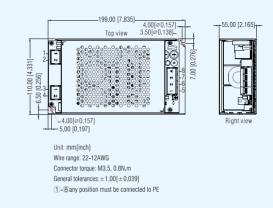
Unit: mm[inch] Wire range: 24-12AWG Tightening torque: Max 0.4 N·m General tolerance: +1 00[+0 039] The layout of the device is for reference only, please refer to the actual product

4 PVA120-27B Series: LxWxH: 170.00x107.00x52.00(mm)

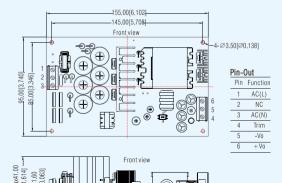


Wire range: 24-12AWG Tightening torque: Max 0.4 N-m General Tolerance: $\pm 1.00[\pm 0.039]$ The layout of the device is for reference only, please refer to the actual product

6 PVA150-27B Series: LxWxH: 199.00x110.00x55.00(mm)

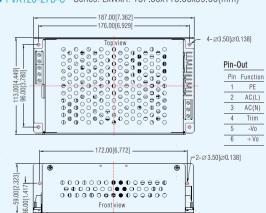


3 PVA70-27B Series: LxWxH: 155.00x95.00x41.00(mm)

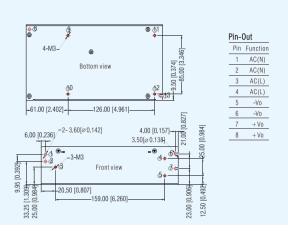


Wire range: 24-12AWG Tightening torque: Max 0.4 N·m General tolerance: +1 001+0 0391 The layout of the device is for reference only, please refer to the actual product

5 PVA120-27B-C Series: LxWxH: 187.00x113.00x59.00(mm)



Unit: mm[inch] Wire range: 24-12AWG Tightening torque: Max 0.4 N·m General tolerance: ±1.00[±0.039]



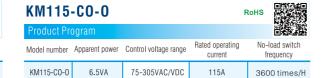
83/87

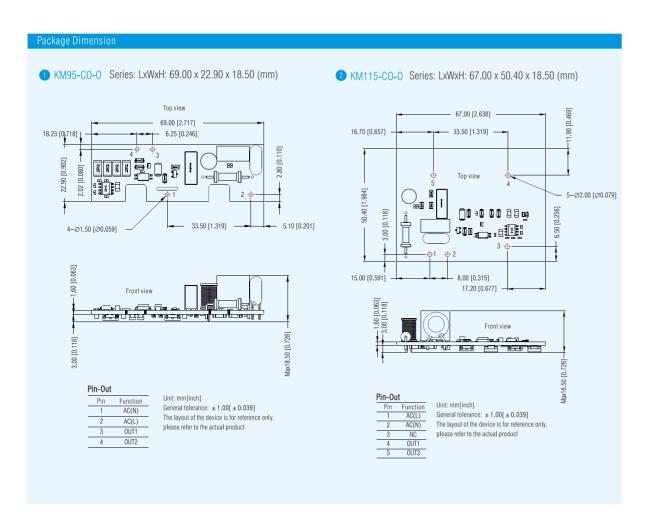
Features:

- Energy-saving wide-voltage contactor control module
- Ultra-wide input voltage range: 90-275VAC/VDC
- Operating temperature: -40°C to +70°C
- Apparent power lower than 6.5VA
- High reliability: 3600 times/H of operating frequency
- Quick response, switch delay less than 75ms
- EMS performance meets CISPR22/EN55022 CLASS A
- 5 years warranty
- Customization is available



KM95-CO-0 Rated operating No-load switch Model number Apparent power Control voltage range frequency KM95-C0-0 6.5VA 90-275VAC/VDC 3600 times/H





• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

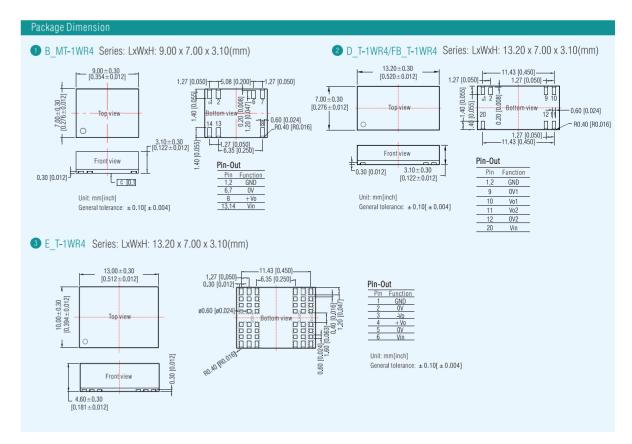
- Ultra-small, ultra-thin DFN package (9.00 x 7.00 x 3.10mm)
- Operating temperature: -40°C to +125°C
- Efficiency up to 85%
- Continuous short-circuit protection
- IEC62368/UL62368/EN62368 approved
- AEC-Q100 approved (B MT-1WR4 series)



B_MT-1V	VR4	ļ	c ¶ us (€ RoHS	CB Report		D_T-1WR	4		c ¶U us (€ RoHS	CB Report	600
Product Progr					回义文艺	Product Progra					ē
Model number	Power	Input voltage (VDC)	Output voltage/ current (Vo/Io)	Isolation (VDC)	Efficiency(%) (typ)	Model number	Power	Input voltage (VDC)	Output voltage/ current (Vo/Io)	Isolation E (VDC)	ffi
B0505MT-1WR4	1W	4.5-5.5 (5VDC)	5V/200mA	3000	81/85	D050505T-1WR4	1W	4.5-5.5 (5VDC)	5V/100mA	3000	
											Т

E_T-1WR4 cNus (€ RoHS CB Report FB_T-1	WH
Product Program Product Pr	ograi
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	er
E0505T-1WR4 1W 4.5-5.5 (5VDC) ±5V/±100mA 3000 83/87 FB0505T-1W	₹4

FB_T-1WF	R 4		c ¶l us (€ RoHS	CB Report	
Product Progra					
Model number	Power (VDC)		Output voltage/ current (Vo/lo)	Isolation E (VDC)	fficiency(%) (typ)
FB0505T-1WR4	1W	4.5-5.5 (5VDC)	5V/200mA	4200	83/87



- Isolation voltage 1500/3000VDC
- ESD Immunity is up to $\pm 8kV$
- Operating temperature: -40°C to +105°C
- Efficiency up to 85%
- High power density

A2424XT-1WR3

- Continuous short-circuit protection
- Compact SMD package





FINANCE FOR THE

	A_XT-1W	/R3	/R :	Y us (€ RoHS CB Report		
	Product Prog					
	Model Number	Power	Input Volta (VDC)	ge Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
Ī	A0505XT-1WR3	1W		± 5V/ ± 100mA		78/82
	A0509XT-1WR3	1W		± 9V/ ± 56mA		79/83
	A0512XT-1WR3	1W	4.5-5.5	± 12V/ ± 42mA	1500	79/83
	A0515XT-1WR3	1W	(5VDC)	± 15V/ ± 34mA		79/83
	A0524XT-1WR3	1W		± 24V/ ± 21mA		81/85
Ī	A1205XT-1WR3	1W		± 5V/ ± 100mA		78/82
	A1209XT-1WR3	1W	10.8-13.2	± 9V/ ± 56mA		79/83
	A1212XT-1WR3	1W	(12VDC)	± 12V/ ± 42mA	1500	79/83
	A1215XT-1WR3	1W	, ,	± 15V/ ± 34mA		79/83
	A1224XT-1WR3	1W		± 24V/ ± 21mA		81/85
	A1515XT-1WR3	1W	13.5-16.5 (15VDC)	± 15V/ ± 34mA	1500	79/83
ĺ	A2405XT-1WR3	1W		± 5V/ ± 100mA		78/82
	A2409XT-1WR3	1W		± 9V/ ± 56mA		77/83
	A2412XT-1WR3	1W	21.6-26.4	± 12V/ ± 42mA	1500	77/83
	A2415XT-1WR3	1 W	(24VDC)	± 15V/ ± 34mA		77/83

B_XT-1W	/R3	.72 °	Nus C € RoHS CB Report		
Product Prog	ram				
Model Number	Power	Input Voltag (VDC)	ge Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
B0503XT-1WR3	1W		3.3V/303mA		70/74
B0505XT-1WR3	1W		5V/200mA		78/82
B0509XT-1WR3	1W	4.5-5.5	9V/111mA	1500	79/83
B0512XT-1WR3	1W	(5VDC)	12V/84mA	1300	79/83
B0515XT-1WR3	1W		15V/67mA		79/83
B0524XT-1WR3	1W		24V/42mA		81/85
B1205XT-1WR3	1W		5V/200mA		78/82
B1209XT-1WR3	1W	10 0 10 0	9V/111mA		79/83
B1212XT-1WR3	1W	10.8-13.2 (12VDC)	12V/84mA	1500	79/83
B1215XT-1WR3	1W	(.2700)	15V/67mA		79/83
B1224XT-1WR3	1W		24V/42mA		81/85
B1505XT-1WR3	1W	13.5-16.5	5V/200mA	1500	78/82
B1515XT-1WR3	1W	(15VDC)	15V/67mA	1000	79/83
B2405XT-1WR3	1W		5V/200mA		76/82
B2409XT-1WR3	1W	21.6-26.4	9V/111mA		77/83
B2412XT-1WR3	1W	(24VDC)	12V/84mA	1500	77/83
B2415XT-1WR3	1W	(2.700)	15V/67mA		77/83

± 24V/ ± 21mA

79/85

DZ413XI-1WN3	1 77		13V/07IIIA		11/03
B2424XT-1WR3	1W		24V/42mA		79/85
B0505X	T_1	WR3		RoHS	
		WILO		Rons	HE COME
Product Progr					可能 初的
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
FB0505XT-1WR3	1W	4.5-5.5 (5VDC)	5V/200mA	4200	78/82
			· ·		

E_XT-1W Product Prog		c % 2°	s (€ RoHS CB Report		
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
			51// 100		70,100

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Model Number	Power	Input Volta	ge Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
E0505XT-1WR3 E0509XT-1WR3	1W 1W		± 5V/ ± 100mA		78/82 79/83
E0509X1-1WR3 E0512XT-1WR3	1 W	4.5-5.5 (5VDC)	± 9V/ ± 56mA ± 12V/ ± 42mA	3000	79/83
E0515XT-1WR3 E0524XT-1WR3	1W 1W	(3400)	± 15V/ ± 34mA ± 24V/ ± 21mA		79/83 81/85
E1205XT-1WR3	1W		± 5V/ ± 100mA		78/82
E1209XT-1WR3 E1212XT-1WR3	1W 1W	10.8-13.2	$\pm 9V/ \pm 56mA$ $\pm 12V/ \pm 42mA$	3000	79/83 79/83
E1215XT-1WR3 E1224XT-1WR3	1W 1W	(12VDC)	± 15V/ ± 34mA ± 24V/ ± 21mA		79/83 81/85
E1515XT-1WR3	1W	13.5-16.5 (15VDC)	± 15V/ ± 34mA	3000	79/83
E2405XT-1WR3	1W		± 5V/ ± 100mA		76/82 77/83
E2409XT-1WR3 E2412XT-1WR3	1W 1W		± 9V/ ± 56mA ± 12V/ ± 42mA	3000	77/83 77/83
E2415XT-1WR3 E2424XT-1WR3	1W 1W	21.6-26.4 (24VDC)	± 15V/ ± 34mA ± 24V/ ± 21mA		79/85

F_XT-1W	/R3	/R 3	Y us C € RoHS CB Report		
Product Progi	ram				
Model Number	Power	Input Voltaç (VDC)	ge Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
F0503XT-1WR3	1W		3.3V/303mA		70/74
F0505XT-1WR3	1W		5V/200mA		78/82
F0509XT-1WR3	1W	4.5-5.5	9V/111mA		79/83
F0512XT-1WR3	1W	(5VDC)	12V/84mA	3000	79/83
F0515XT-1WR3	1W		15V/67mA		79/83
F0524XT-1WR3	1W		24V/42mA		81/85
F1205XT-1WR3	1W		5V/200mA		78/82
F1209XT-1WR3	1W		9V/111mA	3000	79/83
F1212XT-1WR3	1W	10.8-13.2	12V/84mA		79/83
F1215XT-1WR3	1W	(12VDC)	15V/67mA		79/83
F1224XT-1WR3	1W		24V/42mA		81/85
F1505XT-1WR3	1W	13.5-16.5	5V/200mA	2000	78/82
F1515XT-1WR3	1W	(15VDC)	15V/67mA	3000	79/83
F2405XT-1WR3	1W		5V/200mA		76/82
F2409XT-1WR3	1W		9V/111mA		77/83
F2412XT-1WR3	1W	21.6-26.4	12V/84mA	3000	77/83
F2415XT-1WR3	1W	(24VDC)	15V/67mA		77/83
F2424XT-1WR3	1W		24V/42mA		79/85

B1212XT-2WR3 12V/167mA 2W 80/84 10.8-13.2 1500 B1215XT-2WR3 2W (12VDC) 15V/133mA 80/84 B1224XT-2WR3 2W 24V/83mA 81/85 B2405XT-2WR3 2W 5V/400mA 77/83 B2412XT-2WR3 2W 21.6-26.4 12V/167mA 78/84 1500 78/84 B2415XT-2WR3 2W (24VDC) 15V/133mA B2424XT-2WR3 2W 24V/83mA 79/85

F_X1-2W	C€ RoHS				
Product Pro	gram				
Model Number	Power I	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
F1205XT-2WR3	2W		5V/400mA		79/83
F1212XT-2WR3	2W	10.8-13.2	12V/167mA		80/84
F1215XT-2WR3	2W	(12VDC)	15V/133mA	3000	80/84
F1224XT-2WR3	2W		24V/83mA		81/85
F2405XT-2WR3	2W		5V/400mA		77/83
F2412XT-2WR3	2W	21.6-26.4	12V/167mA		78/84
F2415XT-2WR3	2W	(24VDC)	15V/133mA	3000	78/84
F2424XT-2WR3	2W		24V/83mA		79/85

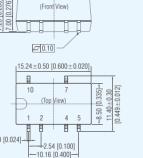


1 A XT-1WR3/E XT-1WR3/FB0505XT-1WR3 Series: LxWxH: 15.24 × 11.40 × 7.25(mm)

Model Number Power (VDC) (Vo/Io)

B XT-2WR3

B1205XT-2WR3



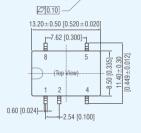


Isolation (VDC)

79/83

Hnit-mm[inch] Pin diameter tolerance: ± 0.10[± 0.004] General tolerances: $\pm 0.25[\pm 0.010]$

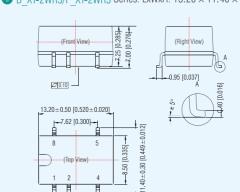




E VE OWDO



3 B XT-2WR3/F XT-2WR3 Series: LxWxH: 13.20 × 11.40 × 7.25(mm)





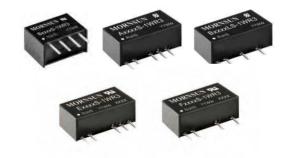
Pin diameter tolerance: ± 0.10[± 0.004]

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[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

Features:

- Isolation voltage 1500VDC/3000VDC
- Continuous short-circuit protection
- No-load input current as low as 5mA
- ESD Immunity is up to $\pm 8kV$
- Operating temperature: -40°C to +105°C
- Efficiency up to 83%
- Compact SIP package
- International standard pin-out
- IEC/EN/UL60950, UL/EN62368 approved



A_S-1WF	3		c ™ us (€ RoHS	CB Report	
Product Progr	am				
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
A1203S-1WR3	1W		± 3.3V/ ± 152mA		71/75
A1205S-1WR3	1W		\pm 5V/ \pm 100mA		76/80
A1212S-1WR3	1W	12	±12V/±425mA	1500	77/81
A1215S-1WR3	1W	(10.8-13.2)	$\pm 15V/\pm 34mA$	1500	77/81
A1224S-1WR3	1W		±24V/±21mA		76/80
A1505S-1WR3	1W	15	± 5V/±100mA		76/80
A1512S-1WR3	1W	(13.5-16.5)	$\pm 12V/\pm 42mA$	1500	76/80
A1515S-1WR3	1W	(1010 1010)	$\pm 15 \text{V} / \pm 344 \text{mA}$		77/81
A2405S-1WR3	1W		± 5V/±100mA		74/80
A2412S-1WR3	1W	24	$\pm 12 \text{V} / \pm 425 \text{mA}$	1500	75/81
A2415S-1WR3	1W	(21.6-26.4)	$\pm 15V/\pm 34$ mA		73/79
A2424S-1WR3	1W		+24V/+21mA		74/80

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B S-1WR3

B_LS-1M	/K3		c ¶L us (€ RoHS	CB Report	
Product Progr	am				
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
B1203LS-1WR3	1W		3.3V/303mA		71/75
B1205LS-1WR3	1W		5V/200mA		76/80
B1209LS-1WR3	1W	12	9V/111mA		76/80
B1212LS-1WR3	1W	(10.8-13.2)	12V/83mA	1500	76/80
B1215LS-1WR3	1W		15V/67mA		77/81
B1224LS-1WR3	1W		24V/42mA		77/81
B1505LS-1WR3	1W		5V/200mA		76/80
B1509LS-1WR3	1W	15	9V/111mA	1500	76/80
B1512LS-1WR3	1W	(13.5-16.5)	12V/83mA		76/80
B1515LS-1WR3	1W		15V/67mA		77/81
B2403LS-1WR3	1W		3.3V/303mA		69/75
B2405LS-1WR3	1W		5V/200mA		73/79
B2409LS-1WR3	1W	24	9V/111mA		74/80
B2412LS-1WR3	1W	(21.6-26.4)	12V/83mA	1500	75/81
B2415LS-1WR3	1W		15V/67mA		75/81
B2424LS-1WR3	1W		24V/42mA		75/81

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	Product Prog	ram				音類遊
	Model Number	Powe	Input Voltage (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
Ī	B0503S-1WR3	1W		3.3V/303mA		70/74
	B0505S-1WR3	1W	_	5V/200mA		78/82
	B0509S-1WR3	1W	5	9V/111mA		79/83
	B0512S-1WR3	1W	(4.5-5.5)	12V/84mA	1500	79/83
	B0515S-1WR3	1W		15V/67mA		79/83
	B0524S-1WR3	1W		24V/42mA		81/85
ľ	B1203S-1WR3	1W		3.3V/303mA		71/75
	B1205S-1WR3	1W	4.0	5V/200mA		76/80
	B1209S-1WR3	1W	12	9V/111mA	1500	76/80
	B1212S-1WR3	1W	(10.8-13.2)	12V/83mA		76/80
	B1215S-1WR3	1W		15V/67mA		77/81
	B1224S-1WR3	1W		24V/42mA		77/81
	B1505S-1WR3	1W		5V/200mA		76/80
	B1509S-1WR3	1W	15	9V/111mA	1500	76/80
	B1512S-1WR3	1W	(13.5-16.5)	12V/83mA	1500	76/80
	B1515S-1WR3	1W		15V/67mA		77/81
ĺ	B2403S-1WR3	1W		3.3V/303mA		69/75
	B2405S-1WR3	1W		5V/200mA		73/79
	B2409S-1WR3	1W		9V/111mA		74/80
	B2412S-1WR3	1W	24	12V/83mA	1500	75/81
	B2415S-1WR3	1W	(21.6-26.4)	15V/67mA		75/81
	B2424S-1WR3	1W		24V/42mA		75/81

RANGE CE ROHS CB REDORT STREET

E S-1WR3

€ RoHS CB Report



	Product Pro	gram				
	Model Numbe	r Powe	Input Voltag	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
	E1203S-1WR3	1W		± 3.3V/±152mA		71/75
	E1205S-1WR3	1W	40	$\pm 5V/\pm 100$ mA		76/80
	E1212S-1WR3	1W	12	\pm 12V/ \pm 42mA	3000	77/81
	E1215S-1WR3	1W	(10.8-13.2)	$\pm 15V/\pm 34mA$		77/81
	E1224S-1WR3	1W		±24V/±21mA		76/80
ľ	E1505S-1WR3	1W	15	±5V/±100mA		76/80
	E1512S-1WR3	1W	(13.5-16.5)	±12V/±42mA	3000	76/80
	E1515S-1WR3	1W	(13.3-10.3)	±15V/±34mA		77/81
	E2405S-1WR3	1W		±5V/±100mA		74/80
	E2412S-1WR3	1W	24	±12V/±42mA	3000	75/81
	E2415S-1WR3	1W	(21.6-26.4)	$\pm 15V/\pm 34mA$	5500	73/79
	E2424S-1WR3	1W		±24V/±21mA		74/80

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

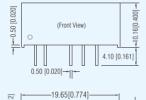
F S-1WR3

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Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)		
F1203S-1WR3	1W		3.3V/303mA		71/75		
F1205S-1WR3	1W		5V/200mA		76/80		
F1209S-1WR3	1W	12	9V/111mA		76/80		
F1212S-1WR3	1W	(10.8-13.2)	12V/83mA	3000	76/80		
F1215S-1WR3	1W	(1010 1012)	15V/67mA		77/81		
F1224S-1WR3	1W		24V/42mA		77/81		
F1505S-1WR3	1W		5V/200mA	3000	76/80		
F1509S-1WR3	1W	15	9V/111mA		76/80		
F1512S-1WR3	1W	(13.5-16.5)	12V/83mA		76/80		
F1515S-1WR3	1W		15V/67mA		77/81		
F2403S-1WR3	1W		3.3V/303mA		69/75		
F2405S-1WR3	1W		5V/200mA		73/79		
F2409S-1WR3	1W	24	9V/111mA	3000	74/80		
F2412S-1WR3	1W	(21.6-26.4)	12V/83mA		75/81		
F2415S-1WR3	1W		15V/67mA		75/81		
F2424S-1WR3	1W		24V/42mA		75/81		

1 A S-1WR3/B LS-1WR3 Series: LxWxH: 19.65 × 6.00 × 10.16(mm)

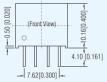


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112]	19.65[0.774]
-0.30 [0.012]	(Bottom View)
1±0.50-	

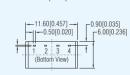
Pin-Out			
Pin	Single	Dual	
1	Vin	Vin	
2	GND	GND	
4	0V	-Vo	
5	No Pin	0V	
6	+V0	+Vo	

Unit:mm[inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$

2 B S-1WR3 Series: LxWxH: $11.60 \times 6.00 \times 10.16$ (mm)

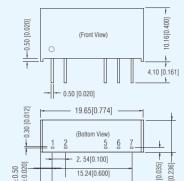






Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$

3 E_S-1WR3/F_S-1WR3 Series: LxWxH: $19.65 \times 6.00 \times 10.16$ (mm)



Pin-Ou	t	
Pin	Single	Dual
1	Vin	Vin
2	GND	GND
5	0V	-Vo
6	No Pin	0V
7	+V0	+ Vo

Unit:mm[inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$

[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

• IEC60950, EN60601-1, ANSI/AAMI ES60601-1approval (3rd edition, 1xM0PP/2xM00P)

- Isolation voltage: 4200VAC or 6000VDC (Reinforced insulation)
- Operating temperature: -40°C to +85°C
- Efficiency up to 84%

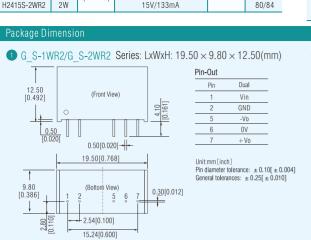
Features:

• International standard pin-out



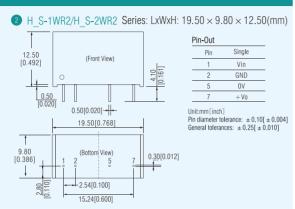
G_S-1W	R2		c ¶l us (€ RoHS	CB Report	
Product Pro	gram				
Model Number	Power	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
G0505S-1WR2	1W		± 5V/ ± 100mA		74/78
G0509S-1WR2	1W	4.5-5.5	\pm 9V/ \pm 56mA		76/80
G0512S-1WR2	1W	(5VDC)	\pm 12V/ \pm 42mA	6000	70/74
G0515S-1WR2	1W		$\pm 15V/ \pm 34mA$		72/76
G1205S-1WR2	1W		± 5V/ ± 100mA		73/77
G1209S-1WR2	1W	10.8-13.2	\pm 9V/ \pm 56mA	0000	76/80
G1212S-1WR2	1W	(12VDC)	$\pm 12V/ \pm 42mA$	6000	69/73
G1215S-1WR2	1W		± 15V/ ± 34mA		71/75
G1515S-1WR2	1W	13.5-16.5 (15VDC)	± 15V/ ± 34mA	6000	68/72
G2405S-1WR2	1W		± 5V/ ± 100mA		71/75
G2409S-1WR2	1W	21.6-26.4	\pm 9V/ \pm 56mA	0000	75/79
G2412S-1WR2	1W	(24VDC)	$\pm 12V/ \pm 42mA$	6000	72/76
G2415S-1WR2	1W		$\pm 15V/ \pm 34mA$		72/76

H_S-2W	R2		c ™ us (€ RoHS	CB Report	
Product Prog	ıram				部級鞭
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
H0505S-2WR2	2W		5V/400mA		73/77
H0512S-2WR2	2W	4.5-5.5 (5VDC)	12V/167mA	6000	75/79
H0515S-2WR2	2W	(3000)	15V/133mA		75/79
H1205S-2WR2	2W		5V/400mA		72/76
H1212S-2WR2	2W	10.8-13.2 (12VDC)	12V/167mA	6000	75/79
H1215S-2WR2	2W	(12000)	15V/133mA		77/81
H1505S-2WR2	2W	13.5-16.5	5V/400mA	6000	73/77
H1515S-2WR2	2W	(15VDC)	15V/133mA	0000	78/82
H2405S-2WR2	2W	01.0.00.4	5V/400mA		75/79
H2412S-2WR2	2W	21.6-26.4 (24VDC)	12V/167mA	6000	78/82
H2415S-2WR2	2W	(21700)	15V/133mA		80/84



H_S-1W	R2		c ¶u s (€ RoHS	CB Report	
Product Prog	gram				部級競
Model Number	Power	Input Voltage (VDC)	e Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
H0305S-1WR2	1W	3.3 (2.97-3.63)	5V/200mA	6000	67/71
H0503S-1WR2	1W		3.3V/303mA		69/73
H0505S-1WR2	1W	4.5-5.5	5V/200mA	0000	74/78
H0512S-1WR2	1W	(5VDC)	12V/84mA	6000	72/76
H0515S-1WR2	1W		15V/67mA		72/76
H1205S-1WR2	1W	400400	5V/200mA		73/77
H1212S-1WR2	1W	10.8-13.2 (12VDC)	12V/84mA	6000	77/81
H1215S-1WR2	1W	(12400)	15V/67mA		77/81
H2405S-1WR2	1W	04 0 00 4	5V/200mA		72/76
H2412S-1WR2	1W	21.6-26.4 (24VDC)	12V/84mA	6000	74/78
H2415S-1WR2	1W	(24700)	15V/67mA		74/78
G S-2W	R2		ε ¶λ us RoHS	CB Report	學與

u_5-2W	ΚZ		c TL us RoHS	CB Report	
Product Prog	gram				
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
G0505S-2WR2 G0509S-2WR2 G0512S-2WR2 G0515S-2WR2	2W 2W 2W 2W	4.5-5.5 (5VDC)	$\pm 5V/ \pm 200$ mA $\pm 9V/ \pm 111$ mA $\pm 12V/ \pm 83$ mA $\pm 15V/ \pm 67$ mA	6000	74/78 74/78 74/78 76/80
G1205S-2WR2 G1209S-2WR2 G1212S-2WR2 G1215S-2WR2	2W 2W 2W 2W	10.8-13.2 (12VDC)	\pm 5V/ \pm 200mA \pm 9V/ \pm 111mA \pm 12V/ \pm 83mA \pm 15V/ \pm 67mA	6000	70/74 76/80 76/80 73/77
G1505S-2WR2 G1509S-2WR2 G1515S-2WR2	2W 2W 2W	13.5-16.5 (15VDC)	± 5V/ ± 200mA ± 9V/ ± 111mA ± 15V/ ± 67mA	6000	73/77 76/80 69/73
G2405S-2WR2 G2409S-2WR2 G2412S-2WR2 G2415S-2WR2	2W 2W 2W 2W	21.6-26.4 (24VDC)	\pm 5V/ \pm 200mA \pm 9V/ \pm 111mA \pm 12V/ \pm 83mA \pm 15V/ \pm 67mA	6000	75/79 77/81 78/82 77/81



• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- Continuous short-circuit protection
- Operating temperature: -40°C to +105°C (A/B/E/F-2WR3 series)
- . International standard pin-out
- IEC/UL/EN62368 approved
- High power density

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F S-3WR2

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A_S-2W	R3		c ¶ us (€ RoHS	CB Report			
Product Program							
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)		
A1203S-2WR3	2W		± 3.3V/ ± 303mA		71/75		
A1205S-2WR3	2W	10.8-13.2	\pm 5V/ \pm 200mA	4500	76/80		
A1212S-2WR3	2W	(12VDC)	\pm 12V/ \pm 83mA	1500	79/83		
A1215S-2WR3	2W		$\pm 15V/ \pm 67mA$		79/83		
A2405S-2WR3	2W	21.6-26.4	\pm 5V/ \pm 200mA		74/80		
A2412S-2WR3	2W	(24VDC)	\pm 12V/ \pm 83mA	1500	77/83		
A2415S-2WR3	2W		\pm 15V/ \pm 67mA		77/83		

	E_S-2W	K3		c Plu us (€ RoHS	CB Report	
	Product Prog	gram				部類遊
	Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
Ī	E1203S-2WR3	2W		± 3.3V/ ± 303mA		71/75
	E1205S-2WR3	2W	10.8-13.2	± 5V/ ± 200mA	0000	76/80
	E1212S-2WR3	2W	(12VDC)	± 12V/ ± 83mA	3000	79/83
	E1215S-2WR3	2W		± 15V/ ± 67mA		79/83
Ī	E2405S-2WR3	2W	04.0.00.4	± 5V/ ± 200mA		74/80
	E2412S-2WR3	2W	21.6-26.4 (24VDC)	± 12V/ ± 83mA	3000	77/83
	E2415S-2WR3	2W	(2.700)	± 15V/ ± 67mA		77/83

_					50 000 pt 12 V
Product Prog	gram				
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
F0505S-3WR2	3W	4.5-5.5	5V/600mA	3000	80/84
F0509S-3WR2	3W	(5VDC)	9V/333mA	3000	80/84
F1205S-3WR2	3W	10.8-13.2	5V/600mA	3000	77/81
F1212S-3WR2	3W	(12VDC)	12V/250mA	3000	84/88
F1515S-3WR2	3W	13.5-16.5 (15VDC)	15V/200mA	3000	81/85

B_S-2W	R3		c ¶ Nus (€ RoHS	CB Report	
Product Pro	gram				
Model Number	Power I	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(9 (typ
B1205S-2WR3	2W		5V/400mA		78/8
B1212S-2WR3	2W	10.8-13.2	12V/167mA		80/8
B1215S-2WR3	2W	(12VDC)	15V/133mA	1500	81/8
B1224S-2WR3	2W		24V/83mA		82/8
B2405S-2WR3	2W		5V/400mA		74/8
B2412S-2WR3	2W	21.6-26.4	12V/167mA		78/8
B2415S-2WR3	2W	(24VDC)	15V/133mA	1500	80/8
B2424S-2WR3	2W		24V/83mA		80/8
F_S-2W Product Pro			c ¶ Us (€ RoHS	CB Report	
		Input Voltage	Output Voltage/Current	Isolation	Eff(9
Model Number	Power	(VDC)	(Vo/Io)	(VDC)	(typ
F1205S-2WR3	2W		5V/400mA		78/8
F1212S-2WR3	2W	10.8-13.2	12V/167mA		80/8
F1215S-2WR3	2W	(12VDC)	15V/133mA	3000	81/8
F1224S-2WR3	2W		24V/83mA		82/8
F2405S-2WR3	2W		5V/400mA		74/8
F2412S-2WR3	2W	21.6-26.4	12V/167mA		78/8
F2415S-2WR3	2W	(24VDC)	15V/133mA	3000	80/8
121100 211110					

F2424S-2WR3	2W	(= : : = -)	24V/83mA		80/86
B_S-3W	R2		c %1 0s (€ RoHS	
Product Prog	ram				部域競
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
B0505S-3WR2	3W	4.5-5.5	5V/600mA	1500	80/84
B0509S-3WR2	3W	(5VDC)	9V/333mA	1300	80/84
B1212S-3WR2	3W	10.8-13.2 (12VDC)	12V/250mA	1500	84/88

Pin₌Out

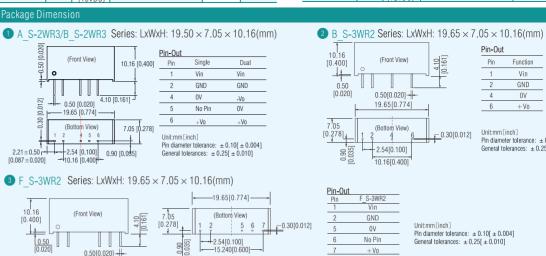
Pin Function

Vin

0V

+ Vo

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$



ROHS ROHS

Fixed Input Voltage DIP Package, Isolated & Unregulated Output Series

Features:

- ESD Immunity is up to $\pm 8kV$
- Continuous output short-circuit protection
- No-load input current as low as 5mA
- Operating temperature: -40°C to +105°C
- Isolation voltage 3000VDC
- Efficiency up to 83%
- International standard pin-out
- DIP package
- IEC/UL/EN62368 approved



B D-1WR3



c¶Nus (€ RoHS CB Report

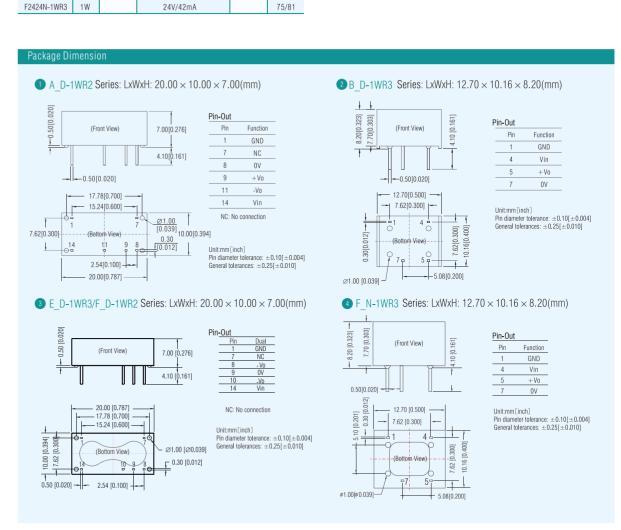
	A_D-1W	R2			RoHS						
	Product Program										
	Model Number	Power	Input Voltage (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)					
Ī	A0505D-1WR2	1W		± 5V/ ± 100mA		76/80					
	A0509D-1WR2	1W		± 9V/ ± 56mA		76/80					
	A0512D-1WR2	1W	4.5-5.5 (5VDC)	± 12V/ ± 42mA	1500	76/80					
	A0515D-1WR2	1W	(3400)	± 15V/ ± 34mA		77/81					
	A0524D-1WR2	1W		± 24V/ ± 21mA		76/80					
Ī	A1205D-1WR2	1W	10 0 10 0	± 5V/ ± 100mA		76/80					
	A1212D-1WR2	1W	10.8-13.2 (12VDC)	± 12V/ ± 42mA	1500	76/80					
ı	A1224D-1WR2	1W	, ,	± 24V/ ± 21mA		77/81					
	A1524D-1WR2	1W	13.5-16.5 (15VDC)	± 24V/ ± 21mA	1500	77/81					
	A2409D-1WR2	1W	01.0.00.4	± 9V/ ± 56mA		76/80					
	A2412D-1WR2	1W	21.6-26.4 (24VDC)	± 12V/ ± 42mA	1500	76/80					
	A2415D-1WR2	1W	(21100)	± 15V/ ± 34mA		76/80					

Product Prog	ram				
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
B1203D-1WR3	1W		3.3V/303mA		71/75
B1205D-1WR3	1W	12	5V/200mA		76/80
B1209D-1WR3	1W	(10.8-13.2)	9V/111mA	1500	74/78
B1212D-1WR3	1W	(10.0 10.2)	12V/83mA		76/80
B1215D-1WR3	1W		15V/67mA		77/81
B1224D-1WR3	1W		24V/42mA		77/81
B1505D-1WR3	1W		5V/200mA		76/80
B1509D-1WR3	1W	15	9V/111mA	1500	76/80
B1515D-1WR3	1W	(13.5-16.5)	15V/67mA		77/81
B2403D-1WR3	1W		3.3V/303mA		69/75
B2405D-1WR3	1W	24	5V/200mA		73/79
B2409D-1WR3	1W	(21.6-26.4)	9V/111mA	1500	74/80
B2412D-1WR3	1W	(=::: 2011)	12V/83mA		75/81
B2415D-1WR3	1W		15V/67mA		75/81
B2424D-1WR3	1W		24V/42mA		75/81

E_D-1W	R3		C€ RoHS		
Product Prog					
Model Number	Power	Input Voltage (VDC)	e Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
E0505D-1WR3	1W		±5V/±100mA		72/82
E0509D-1WR3	1W	4.5-5.5	$\pm 9V/\pm 56mA$	2000	80/84
E0512D-1WR3	1W	(5VDC)	$\pm 12V/\pm 42mA$	3000	80/84
E0515D-1WR3	1W		$\pm 15V/\pm 34mA$		80/84
E1205D-1WR3	1W		±5V/±100mA		76/80
E1209D-1WR3	1W	10.8-13.2	\pm 9V/ \pm 55mA	2000	76/80
E1212D-1WR3	1W	(12VDC)	$\pm 12V/\pm 42mA$	3000	77/81
E1215D-1WR3	1W		±15V/±34mA		77/81
E1515D-1WR3	1W	13.5-16.5 (15VDC)	±15V/±33mA	3000	77/81
E2405D-1WR3	1W		±5V/±100mA		74/80
E2409D-1WR3	1W	21.6-26.4	$\pm 9V/\pm 55$ mA	3000	74/80
E2412D-1WR3	1W	(24VDC)	$\pm 12V/\pm 42mA$	3000	75/81
E2415D-1WR3	1W		$\pm 15 \text{V}/\pm 34 \text{mA}$		73/79

F_D-1W	R2		c ¶ °us (€ RoHS			
Product Prog	ram				金製造	
Model Number	Power	Input Voltage (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)	
F0503D-1WR2	1W		3.3V/303mA		71/75	
F0505D-1WR2	1W	4.5-5.5	5V/200mA	3000	76/80	
F0512D-1WR2	1W	(5VDC)	12V/83mA		76/80	
F0515D-1WR2	1W		15V/67mA		77/81	
F1205D-1WR2	1W		5V/200mA		76/80	
F1212D-1WR2	1W	10.8-13.2 (12VDC)	12V/83mA	3000	76/80	
F1215D-1WR2	1W	(12000)	15V/67mA		77/81	
F1515D-1WR2	1W	13.5-16.5 (15VDC)	15V/67mA	3000	76/80	
F2405D-1WR2	1W		5V/200mA		75/79	
F2412D-1WR2	1W	21.6-26.4 (24VDC)	12V/ ± 42mA	3000	77/81	
F2415D-1WR2	1W		15V/ ± 34mA		76/80	

F N-1WR3 c¶Nus C € RoHS CB Report Model Number Power (1993) Output Voltage/Current (VDC) (Vo/lo) (typ) F0503N-1WR3 3.3V/303mA 1W 70/74 F0505N-1WR3 1W 5V/200mA 78/82 F0507N-1WR3 1W 7.2V/139mA 76/80 4.5-5.5 3000 F0509N-1WR3 1W 79/83 9V/111mA F0512N-1WR3 1W 79/83 12V/84m4 F0515N-1WR3 1W 15V/67mA 79/83 F0524N-1WR3 1W 24V/42mA 81/65 F1203N-1WR3 1W 3.3V/303mA 71/75 F1205N-1WR3 1W 5V/200mA 76/80 F1209N-1WR3 1W 9V/111mA 74/78 13 5-16 5 3000 F1212N-1WR3 1W 12V/83mA 76/80 (15VDC) F1215N-1WR3 1W 15V/67mA 77/81 F1224N-1WR3 1W 24V/42mA 77/81 F2403N-1WR3 1W 3.3V/303mA 69/75 F2405N_1WR3 1W 73/79 5V/200mA 74/80 F2409N-1WR3 1W 9V/111mA 21 6-26 4 3000 F2412N-1WR3 1W 12V/83mA 75/81 (24VDC) 1W F2415N-1WR3 15V/67mA 75/81



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Fixed Input Voltage DIP Package, Isolated & Unregulated Output Series

Features:

- ESD Immunity is up to $\pm 8kV$
- Operating temperature: -40° C to $+85^{\circ}$ C
- Efficiency up to 85%
- Continuous output short-circuit protection
- Compact DIP package
- IF

EC/UL/EN62368 approved	
_D-2WR2	c 91 °us (€ RoHS CB Report
aduat Dragram	

A_D-ZWIIZ				ob Hoport	18 THE SEC.		
Product Progra	Product Program						
Model Number	Power	nput Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)		
A0505D-2WR2	2W		± 5V/200mA		76/80		
A0509D-2WR2	2W	_	± 9V/ ± 111mA	4500	80/84		
A0512D-2WR2	2W	5	± 12V/ ± 83mA	1500	80/84		
A0515D-2WR2	2W		± 15V/ ± 67mA		80/84		
A1205D-2WR2	2W		± 5V/200mA	1500	76/80		
A1209D-2WR2	2W	40	± 9V/ ± 111mA		79/83		
A1212D-2WR2	2W	12	± 12V/ ± 83mA		78/82		
A1215D-2WR2	2W		± 15V/ ± 67mA		80/84		
A1515D-2WR2	2W	15	± 15V/ ± 67mA	1500	77/81		
A2405D-2WR2	2W		± 5V/200mA		75/79		
A2409D-2WR2	2W		± 9V/ ± 111mA		80/84		
A2412D-2WR2	2W	24	± 12V/ ± 83mA	1500	79/83		
A2415D-2WR2	2W		± 15V/ ± 67mA		80/84		
A2424D-2WR2	2W		± 24V/ ± 42mA		80/84		

F	D	-2	W	R2	

c¶Nus (€ RoHS CB Report



Product Program						
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)	
F0505D-2WR2	2W		5V/400mA		76/80	
F0509D-2WR2	2W		9V/222mA		80/84	
F0512D-2WR2	2W	5	12V/167mA	3000	80/84	
F0515D-2WR2	2W		15V/133mA		80/84	
F0524D-2WR2	2W		24V/83mA		80/84	
F1205D-2WR2	2W	12	5V/400mA		76/80	
F1212D-2WR2	2W		12V/167mA		78/82	
F1215D-2WR2	2W		15V/133mA	3000	80/84	
F1224D-2WR2	2W		24V/83mA		81/85	
F1505D-2WR2	2W		5V/400mA		75/79	
F1509D-2WR2	2W	15	9V/222mA	3000	78/82	
F1515D-2WR2	2W		15V/133mA		75/79	
F2405D-2WR2	2W		5V/400mA		76/80	
F2409D-2WR2	2W		9V/222mA		81/85	
F2412D-2WR2	2W	24	12V/167mA	3000	79/83	
F2415D-2WR2	2W		15V/133mA		80/84	
F2424D-2WR2	2W		24V/83mA		81/85	





B D-2WR2

€¶Us (€ RoHS CB Report



Product Program					
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
B0303D-2WR2	2W		3.3V/400mA		66/70
B0305D-2WR2	2W	3.3	5V/400mA	1500	74/78
B0503D-2WR2	2W		3.3V/400mA		70/74
B0505D-2WR2	2W		5V/400mA		76/80
B0509D-2WR2	2W		9V/222mA		80/84
B0512D-2WR2	2W	5	12V/167mA	1500	80/84
B0515D-2WR2	2W		15V/133mA		80/84
B0524D-2WR2	2W		24V/83mA		80/84
B0915D-2WR2	2W	9	15V/133mA	1500	79/83
B1205D-2WR2	2W		5V/400mA		76/80
B1209D-2WR2	2W		9V/222mA		79/83
B1212D-2WR2	2W	12	12V/167mA	1500	78/82
B1215D-2WR2	2W		15V/133mA		80/84
B1224D-2WR2	2W		24V/83mA		80/84
B2405D-2WR2	2W		5V/400mA		75/79
B2409D-2WR2	2W		9V/222mA		81/85
B2412D-2WR2	2W	24	12V/167mA	1500	79/83
B2415D-2WR2	2W		15V/133mA		80/84
B2424D-2WR2	2W		24V/83mA		80/84

E D-2WR3

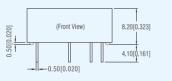
RoHS CB Report

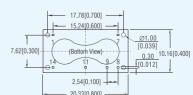


Product Progra					
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
E1203D-2WR3 E1205D-2WR3 E1212D-2WR3 E1215D-2WR3	2W 2W 2W 2W	12	± 3.3V/ ± 303mA ± 5V/ ± 200mA ± 12V/ ± 83mA ± 15V/ ± 67mA	3000	71/75 76/80 79/83 79/83
E2403D-2WR3 E2405D-2WR3 E2412D-2WR3 E2415D-2WR3	2W 2W 2W 2W	24	± 3.3V/ ± 5V/ ± 200mA ± 12V/ ± 15V/ ± 67mA	3000	74/80 77/83

Package Dimension

1 A D-2WR2/B D-2WR2 Series: LxWxH: 20.32 × 10.16 × 8.20(mm)



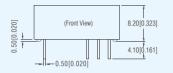


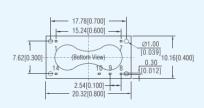
Pin-Out		
Pin	Single	Dual
1	GND	GND
7	NC	NC
8	0V	0V
9	+V0	+V0
11	No Pin	-Vo
14	Vin	Vin

NC: No connection

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004]
General tolerances: ±0.25[±0.010]

2 E D-2WR3/F D-2WR2 Series: LxWxH: 20.32 × 10.16 × 8.20(mm)





Pin-0	ut		
Pin	Single	Dual	
1	GND	GND	
7	NC	NC	
8	+Vo	+V0	
9	No Pin	0V	
10	0V	-Vo	
14	Vin	Vin	
	NC: No conr	nection	

 $\label{lem:unit:mm[inch]} \begin{tabular}{ll} Unit:mm[inch] \\ Pin diameter tolerance: <math>\pm 0.10[\pm 0.004] \\ General tolerances: \pm 0.25[\pm 0.010] \\ \end{tabular}$

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Fixed Input Voltage 0.75-1W Isolated & Regulated Output Series

ID IO AMBO

Features:

- Isolation voltage 3000VDC
- Continuous output short-circuit protection
- No-load input current as low as 5mA
- Operating temperature: -40°C to +85°C
- Efficiency up to 74%
- International standard pin-out
- Compact SIP and SMD package
- IEC/UL/EN62368 approved

IB_XT-W	75R3		C€ RoHS		
Product Progra					
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
IB0503XT-W75R3	0.75W		3.3V/200mA		64/68
IB0505XT-W75R3	0.75W		5V/150mA		68/72
IB0509XT-W75R3	0.75W	4.5-5.5	9V/83mA	1500	68/72
IB0512XT-W75R3	0.75W	(5VDC)	12V/62mA		69/73
IB0515XT-W75R3	0.75W		15V/50mA		70/74
IB1205XT-W75R3	0.75W		5V/150mA		68/72
IB1212XT-W75R3	0.75W	11.8-12.6	12V/62mA	1500	69/73
IB1215XT-W75R3	0.75W	(12VDC)	15V/50mA		70/74

IB_XT-1V	VR2		C	€ RoHS	
Product Progra	am				
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
IB0503XT-1WR2	1 W		3.3V/243mA		54/58
IB0505XT-1WR2	1 W	4.5-5.5	5V/200mA	4500	68/72
IB0512XT-1WR2	1 W	(5VDC)	12V/84mA	1500	69/73
IB0515XT-1WR2	1 W		15V/67mA		70/74
IB1205XT-1WR2	1 W		5V/200mA		69/73
IB1212XT-1WR2	1 W	13.5-16.5 (15VDC)	12V/84mA	1500	69/73
I B1215XT-1WR2	1W	(13400)	15V/67mA		71/75
IB2405XT-1WR2	1 W		5V/200mA		69/73
IB2412XT-1WR2	1 W	21.6-26.4 (24VDC)	12V/84mA	1500	69/73
IB2415XT-1WB2	1W	(24700)	15V/67mA		69/73

IF_XT-1WR3 CE					
Product Progra	am			自然的概然	自然經濟
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
IF0503XT-1WR3	1 W	4.5-5.5	3.3V/250mA		62/66
IF0505XT-1WR3	1 W		5V/200mA	3000	65/69
IF0509XT-1WR3	1 W		9V/111mA		66/70
IF0512XT-1WR3	1 W	(5VDC)	12V/84mA		66/71
IF0515XT-1WR3	1 W		15V/67mA		66/71
IF1205XT-1WR3	1 W	400400	5V/200mA		65/69
IF1212XT-1WR3	1 W	10.8-13.2 (12VDC)	12V/84mA	3000	67/71
IF1215XT-1WR3	1W	(12400)	15V/67mA		67/71
IF2405XT-1WR3	1 W		5V/200mA		63/69
IF2412XT-1WR3	1 W	21.6-26.4 (24VDC)	12V/84mA	3000	65/71
IF2415XT-1WR3	1 W	(24400)	15V/67mA		65/71



IB_S-W7	5R3		(€ RoHS		
Product Progr	am		i i		
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
IB0503S-W75R3	0.75W		3.3V/200mA		64/68
IB0505S-W75R3	0.75W		5V/150mA		68/72
IB0509S-W75R3	0.75W	4.5-5.5	9V/83mA	1500	68/72
IB0512S-W75R3	0.75W	(5VDC)	12V/62mA		69/73
IB0515S-W75R3	0.75W		15V/50mA		70/74
IB1203S-W75R3	0.75W		3.3V/200mA		64/68
IB1205S-W75R3	0.75W	10.8-13.2	5V/150mA		68/72
IB1212S-W75R3	0.75W	(12VDC)	12V/62mA	1500	69/73
IB1215S-W75R3	0.75W		15V/50mA		70/74
IB2403S-W75R3	0.75W		3.3V/200mA		62/68
IB2405S-W75R3	0.75W	21.6-26.4	5V/150mA	4500	66/72
IB2412S-W75R3	0.75W	(24VDC)	12V/62mA	1500	67/73
IB2415S-W75R3	0.75W		15V/50mA		68/74

IB_LS-1\	WR3	c 91 0 us (€ RoHS CB Report		
Product Progr					
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
IB0503LS-1WR3	1W		3.3V/250mA		63/67
IB0505LS-1WR3	1W		5V/200mA		66/70
IB0509LS-1WR3	1W	4.5-5.5	9V/111mA		67/71
IB0512LS-1WR3	1W	(5VDC)	12V/84mA	1500	68/72
IB0515LS-1WR3	1W	` ′	15V/67mA		69/73
IB0524LS-1WR3	1W		24V/41mA		69/73
IB1205LS-1WR3	1W		5V/200mA		69/73
IB1209LS-1WR3	1W	10.8-13.2	9V/111mA	1500	69/73
IB1212LS-1WR3	1W	(12VDC)	12V/83mA		69/73
IB1215LS-1WR3	1W		15V/67mA		71/75
IB1505LS-1WR3	1W	13.5-16.5	5V/200mA	1500	69/73
IB1515LS-1WR3	1W	(15VDC)	15V/67mA	1300	71/75
IB2405LS-1WR3	1W		5V/200mA		67/73
IB2409LS-1WR3	1W	21.6-26.4	9V/111mA		67/73
IB2412LS-1WR3	1W	(24VDC)	12V/83mA	1500	67/73
IB2415LS-1WR3	1W		15V/67mA		67/73

IE_KS-1	NR3			€ RoHS	
Product Progr					
Model Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
IE0505KS-1WR3 IE0509KS-1WR3 IE0512KS-1WR3 IE0515KS-1WR3	1W 1W 1W 1W	4.5-5.5 (5VDC)	± 5V / ± 100mA ± 9V/ ± 56mA ± 12V/ ± 42mA ± 15V/ ± 33mA	3000	64/68 65/69 66/70 66/70

IF S-1WR3

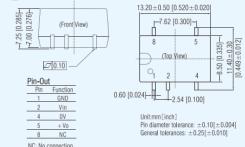
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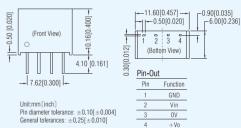
Model Numbe	er P	ower (VC	/oltage Output Voltage/Curren OC) (Vo/lo)	t I solation (VDC)	n Eff(%) (typ)
IF0503S-1WR3	1W		3.3V/250mA		63/67
IF0505S-1WR3	1 W		5V/200mA		66/70
IF0509S-1WR3	1W	4.5-5.5	9V/111mA		67/71
IF0512S-1WR3	1W	(5VDC)	12V/84mA	3000	68/72
IF0515S-1WR3	1W		15V/67mA		69/73
IF0524S-1WR3	1W		24V/41mA		69/73
IF1205S-1WR3	1W		5V/200mA	3000	69/73
IF1209S-1WR3	1W	10.8-13.2	9V/111mA		69/73
IF1212S-1WR3	1W	(12VDC)	12V/83mA	0000	69/73
IF1215S-1WR3	1W		15V/67mA		71/75
IF1505S-1WR3	1W	13.5-16.5	5V/200mA	0000	69/73
I F1515S-1WR3	1W	(15VDC)	15V/67mA	3000	71/75
IF2403S-1WR3	1W		3.3V/250mA		65/71
IF2405S-1WR3	1W		5V/200mA		67/73
IF2409S-1WR3	1W	21.6-26.4 (24VDC)	9V/111mA	3000	67/73
IF2412S-1WR3	1W	(24700)	12V/83mA		67/73
I F2415S-1WR3	1W		15V/67mA		67/73

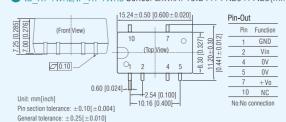
Package Dimension

1 IB XT-W75R3 Series: LxWxH: 13.20 × 11.40 × 7.25(mm)

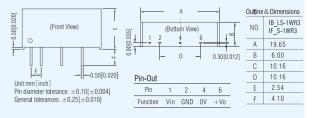




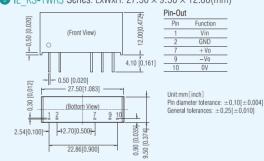








5 IE KS-1WR3 Series: LxWxH: 27.50 × 9.50 × 12.00(mm)



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Wide Input Voltage 3-400W Open Frame Package, Cost-effective Isolated & Regulated Output Series

Features:

- Widely used in communication, medical, industrial control. electric power instrumentation applications
- Wide 4:1 input voltage range
- Isolation voltage 1500VDC
- Efficiency up to 93%
- Input under-voltage protection, output short-circuit, over-current protection
- Operating temperature: -40° C to $+85^{\circ}$ C / -40° C to $+100^{\circ}$ C
- International standard pin-out
- EN62368 approved



	VCB_SO-3V	VR3		(€ RoHS	
	Product Program					回鄉級經濟
	Model Number Po		ut Voltage 0 VDC)	utput Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
ĺ	VCB4805SO-3WR3 VCB4812SO-3WR3	3W 3W	36-75	5V/600mA 12V/250mA		78/80 79/81
	VCB4815SO-3WR3 VCB4824SO-3WR3	3W 3W	(48VDC)	15V/200mA 24V/125mA	1500	80/82 80/82
		- ""				

VCB_SO-6V	VR3		(€ RoHS	
Product Program					高級規
Model Number Po		ut Voltage O VDC)	utput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VCB4805S0-6WR3	6W		5V/1200mA		79/81
VCB4812SO-6WR3	6W	36-75	12V/500mA	4500	81/83
VCB4815SO-6WR3	6W	(48VDC)	15V/400mA	1500	82/84
VCB4824SO-6WR3	6W		24V/250mA		83/85

VCB_SBO-1	0WF	3	C	€ RoHS	
Product Program					
Model Number Po	ower (ut Voltage 0 VDC)	utput Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
VCB4805SB0-10WR3 VCB4812SB0-10WR3 VCB4815SB0-10WR3 VCB4824SB0-10WR3	10W 10W 10W 10W	36-75 (48VDC)	5V/2000mA 12V/833mA 15V/667mA 24V/417mA	1500	81/83 85/87 86/88 86/88

VCB_SBO-2	OWF	R 3	(€ RoHS	
Product Program					
Model Number Po		ut Voltage O VDC)	utput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VCB4803SB0-20WR3	20W		3.3V/5000mA		84/86
VCB4805SB0-20WR3	20W		5V/4000mA		86/88
VCB4812SB0-20WR3	20W	36-75	12V/1667mA		87/89
VCB4815SB0-20WR3	20W	(48VDC)	15V/1333mA	1500	87/89
VCB4824SB0-20WR3	20W		24V/833mA		88/90
VCB4828SB0-20WR3	20W		28V/714mA		88/90

VCB_SBO-3	OWF	3	C	€ RoHS	
Product Program					
Model Number Po		ut Voltage O VDC)	utput Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
VCB4805SB0-30WR3 VCB4812SB0-30WR3 VCB4815SB0-30WR3	30W 30W 30W	36-75 (48VDC)	5V/6000mA 12V/2500mA 15V/2000mA	1500	88/90 88/90 88/90
VCB4824SB0-30WR3 VCB4828SB0-30WR3	30W 30W	(10100)	24V/1250mA 28V/1072mA		88/90 88/90

/ F	3	C	€ RoHS		VCB_EBO-100WR3	S
	ut Voltage O VDC)	utput Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)	Product Program Model Number Power Input Voltage Output Voltage/Current (VDC) (Vo/Io) (VDC)	, ,
1	36-75 (48VDC)	5V/6000mA 12V/2500mA 15V/2000mA 24V/1250mA 28V/1072mA	1500	88/90 88/90 88/90 88/90 88/90	VCB4805EBO-100WR3 100W VCB4812EBO-100WR3 100W VCB4812EBO-100WR3 100W VCB4824EBO-100WR3 100W VCB4828EBO-100WR3 100W VCB4828EBO-100WR3 100W VCB4828EBO-100WR3 100W 28V/3.57A 5V/20A 12V/8.3A 15V/6.67A 24V/4.17A 28V/3.57A	90/92 91/93 91/93 90/92 90/92

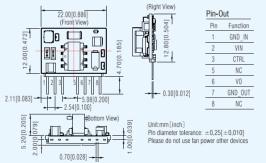
VCB	_QBO-2	200W	/R3		RoHS	
Produ	ct Program					
Model	Number P		ut Voltage 0 VDC)	utput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VCB481 VCB481	5QB0-200WR3 2QB0-200WR3 5QB0-200WR3 4QB0-200WR3	180W 200W 200W 200W	36-75 (48VDC)	5V/36A 12V/16.67A 15V/13.33A 24V/8.33A	1500	89/91 91/93 91/93 90/92

VCF_QBO-400W(F/H)R3					
Product Program					
Model Number Power	Input V (VD		ut Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VCF4812QBO-400W(F/H)R3 VCF4815QBO-400W(F/H)R3 VCF4824QBO-400W(F/H)R3 VCF4828QBO-400W(F/H)R3	400W 400W 400W 400W	36-75 (48VDC)	12V/33000mA 15V/26500mA 24V/16500mA 28V/14200mA	2250	93/95 93/95 93/95 93/95

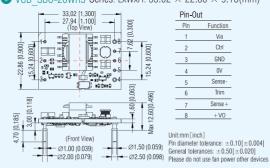
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Package Dimension

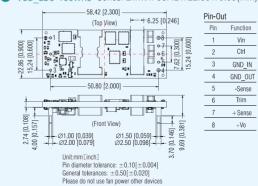
1 VCB SO-3WR3/VCB SO-6WR3 Series: LxWxH: 22.00×8.20×12.80(mm)



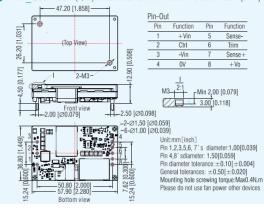
3 VCB SB0-20WR3 Series: LxWxH: $33.02 \times 22.86 \times 9.18$ (mm)



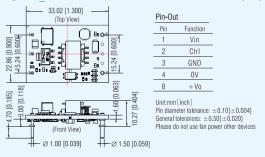
5 VCB EBO-100WR3 Series: LxWxH: 58.42 x 22.86 x 9.69(mm)



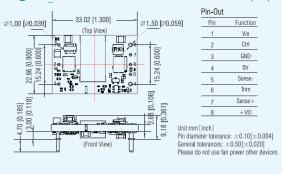
7 VCF QBO-400W(F/H)R3 Series: LxWxH: 57.9 x 36.8 x 12.9 (mm)



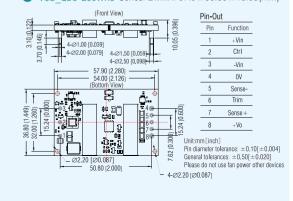
2 VCB SB0-10WR3 Series: LxWxH: 33.02×22.86×11.40(mm)



 \bigcirc VCB_SB0-30WB3_Series: LxWxH: 33.02 \times 22.86 \times 9.18(mm)



6 VCB QBO-200WR3 Series: LxWxH: 57.9 x 36.80 x 10.05(mm)



Features:

- Suitable for communication, instrumentation, industrial electronics applications
- Ultra-small DIP/SMD package
- Wide 2:1 input voltage range
- Operating temperature: -40°C to +85°C
- Isolation voltage 1500VDC
- Continuous output short-circuit protection
- Meet UL62368 standard, EN62368 approved

1W

1W

1W

1W

1W

1W

1W

1W

(24VDC)

± 12V/ ± 42mA

 $\pm 15V/ \pm 33mA$





WRA SD/T-1WR2

Model Number

WRA1205SD/ST-1WR2

WRA1209SD/ST-1WR2

WRA1212SD/ST-1WR2

WRA1215SD/ST-1WR2

WRA2405SD/ST-1WR2

WRA2409SD/ST-1WR2

WRA2412SD/ST-1WR2

WRA2415SD/ST-1WR2



			• -	18 C 19 C
	t Voltage Οι /DC)	itput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
1W 1W 1W 1W	9-18 (12VDC)	±5V/±100mA ±9V/±56mA ±12V/±42mA ±15V/±33mA	1500VDC (DIP/SMD)	75/77 78/80 78/80 75/77
1W 1W	18-36	± 5V/ ± 100mA ± 9V/ ± 56mA	1500VDC	75/77 75/77

75/77

75/77

WRR SD/T-1WR2



05/ .		_	•		300
Product Program					
Model Number Pov		t Voltage Οι VDC)	tput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
WRB1203ST/SD-1WR2 WRB1205ST/SD-1WR2	1W 1W		3.3V/303mA 5V/200mA		73/75 75/77
WRB1212ST/SD-1WR2 WRB1215ST/SD-1WR2 WRB1224ST/SD-1WR2	1W 1W 1W	9-18 (12VDC)	12V/83mA 15V/67mA 24V/42mA	1500VDC (DIP/SMD)	77/79 78/80 74/76
WRB2403ST/SD-1WR2 WRB2405ST/SD-1WR2 WRB2412ST/SD-1WR2 WRB2415ST/SD-1WR2 WRB2424ST/SD-1WR2	1W 1W 1W 1W	18-36 (24VDC)	3.3V/303mA 5V/200mA 12V/83mA 15V/67mA 24V/42mA	1500VDC (DIP/SMD)	73/75 75/77 76/78 76/78 75/77

WRA SD/T-3WR2



(DIP/SMD)

Product Program					回路经验外
Model Number Po		t Voltage Ou /DC)	tput Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
WRA1205SD/ST-3WR2 WRA1209SD/ST-3WR2 WRA1212SD/ST-3WR2 WRA1215SD/ST-3WR2	3W 3W 3W 3W	9-18 (12VDC)	\pm 5V/ \pm 300mA \pm 9V/ \pm 167mA \pm 12V/ \pm 125mA \pm 15V/ \pm 100mA	1500VDC (DIP/SMD)	76/78 76/78 77/79 77/79
WRA2405SD/ST-3WR2 WRA2409SD/ST-3WR2 WRA2412SD/ST-3WR2 WRA2415SD/ST-3WR2	3W 3W 3W 3W	18-36 (24VDC)	$\pm 5V/ \pm 300$ mA $\pm 9V/ \pm 167$ mA $\pm 12V/ \pm 125$ mA $\pm 15V/ \pm 100$ mA	1500VDC (DIP/SMD)	76/78 78/80 80/82 79/81

WRB SD/T-3WR2

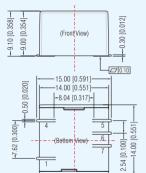




i Toutict i Togram					E183566772
Model Number Pov		t Voltage Ou /DC)	tput Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
WRB1203ST/SD-3WR2 WRB1205ST/SD-3WR2 WRB1212ST/SD-3WR2 WRB1215ST/SD-3WR2 WRB1224ST/SD-3WR2	3W 3W 3W 3W 3W	9-18 (12VDC)	3.3V/758mA 5V/600mA 12V/250mA 15V/200mA 24V/125mA	1500VDC (DIP/SMD)	73/75 77/79 80/82 81/83 79/81
WRB2403ST/SD-3WR2 WRB2405ST/SD-3WR2 WRB2412ST/SD-3WR2 WRB2415ST/SD-3WR2 WRB2424ST/SD-3WR2	3W 3W 3W 3W 3W	18-36 (24VDC)	3.3V/758mA 5V/600mA 12V/250mA 15V/200mA 24V/125mA	1500VDC (DIP/SMD)	72/74 79/81 81/83 81/83 81/83

2 WRA/B SD-1W/3WR2 Series: LxWxH: 14.00 × 14.00 × 9.00 (mm)





Pin-C)ut	
Pin	WRA_ST-1W/3WR2	WRB_ST-1W/3WR2
1	GND	GND
4	Vin	Vin
5	+ Vo	+V0
6	0V	NC

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.501 \pm 0.0201$



9.00 [0.354]	(Front View)	<u>-</u>
3.10		-
~°e+		-
20]	14.00 [0.551]	
0.50 [0.020]	0.30 [0.012]	
0.50		P
+ +	= 4 5 - 1	G
	(Bettom-Niew) - 4 - 101 10] - 110 101 101 101 101 101 101 101 101 1	
2 [0.	(Bettom-View)	
-7.6	2.55 [0.110] 	
T	2.54	

Pin-Out									
Pin	WRA_SD-1W/3WR2	WRB_SD-1W/3WR2							
1	GND	GND							
4	Vin	Vin							
5	+V0	+V0							
6	0V	NC							

Pin diameter tolerance: ±0.10[±0.004]
General tolerances: ±0.50[±0.020]

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Features:

- Suitable for communication, instrumentation, industrial electronics applications
- Wide input voltage range
- Efficiency up to 82%
- No-load power consumption as low as 0.1W
- Isolation voltage 500VAC/1500VDC
- Operating temperature: -40°C to +85°C
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- DIP/SMD packages optional
- 6.19mm ultra-thin package
- EN62368 approved

U/VRB-J(M)D/T-3W



Product Program

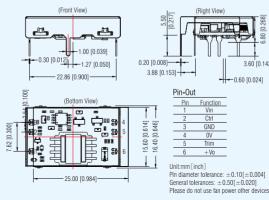
Model Number	Power In	(VDC)	(Vo/lo)	nt Isolation (VDC)	(typ)
VRB0505J(M)T/D-3W VRB0512J(M)T/D-3W VRB0515J(M)T/D-3W VRB0524J(M)T/D-3W	3W 3W 3W 3W	4.5-9 (5VDC)	5V/600mA 12V/250mA 15V/200mA 24V/125mA	1500	70/72 74/76 75/77 74/76

Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent I solation (VDC)	Eff(%) (typ)
URB2403J(M)T/D-3W	3W		3.3V/600mA		70/72
URB2405J(M)T/D-3W	3W	0.00	5V/600mA		75/77
URB2412J(M)T/D-3W	3W	9-36 (24VDC)	12V/250mA	1500	79/81
URB2415J(M)T/D-3W	3W	(= ,	15V/200mA		80/82
URB2424J(M)T/D-3W	3W		24V/125mA		79/81

Package Dimension

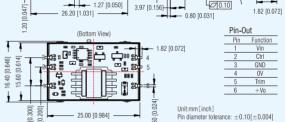


Series: LxWxH: 25.00 x 16.40 x 6.80(mm)



2 U/VRB-JMT-3W(DIP package with shell) Series: LxWxH: 26.20 x 16.40 x 6.80(mm)

1.00 [0.039]



General tolerances: $\pm 0.50[\pm 0.020]$ Please do not use fan power other devices

U/VRB-JT-3W(DIP package with shell)

U/VRB-JD-3W(DIP package with shell)

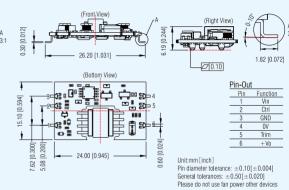
-0.30 [0.012]

22.86 [0.900]

- 24.00 [0.945]

Series: LxWxH: 24.00 x 15.10 x 6.19(mm)

Series: LxWxH: 26.20 x 15.10 x 6.19(mm)



Unit:mm[inch]

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$ Please do not use fan power other devices

Features:

- Suitable for industrial control, electric power, instrumentation, communication applications
- Efficiency up to 86%
- No-load power consumption as low as 0.12W
- Isolation voltage 500VAC/1500VDC
- Operating temperature: -40°C to +85°C
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- DIP/SMD packages optional



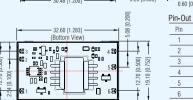
c¶Nus C € RoHS CB Report

VRB J(M)D/T-6W

Product Program								
Model Number P	ower I r	put Voltage (VDC)	Output Voltage/Currei (Vo/lo)	nt I solation (VDC)				
VRB1205J(M)D/T-6W VRB1212J(M)D/T-6W VRB1215J(M)D/T-6W	6W 6W 6W	9-18 (12VDC)	5V/1200mA 12V/500mA 15V/400mA	1500	79/81 83/85 84/86			

					回线接触器
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt Isolation (VDC)	Eff(%) (typ)
VRB2403J(M)D/T-6W	6W		3.3V/1500mA		77/79
VRB2405J(M)D/T-6W	6W	18-36	5V/1200mA	1500	81/83
VRB2412J(M)D/T-6W	6W	(24VDC)	12V/500mA	1300	83/85
VRB2415J(M)D/T-6W	6W		15V/400mA		84/86

Package Dimension 1 VRB JMD-6W(DIP package with shell) Series: LxWxH: 32.60 x 19.10 x 6.80(mm) 2 87 [0 113] 1.00 [0.039] - 30.48 [1.200] -



0V + Vn Unit-mm [inch]

Vin

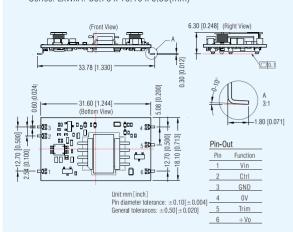
Ctrl

GND

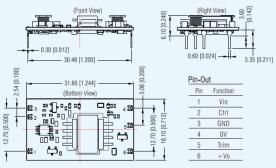
Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.25[±0.010]

2 VRB JT-6W(DIP package with shell)

Series: LxWxH: 33.78 x 18.10 x 6.30(mm)



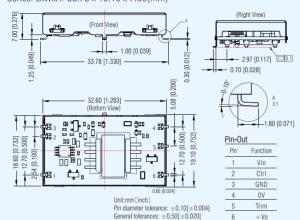




Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: +0.50[+0.020]

VRB JMT-6W(DIP package with shell)

Series: LxWxH: 33.78 x 19.10 x 7.00(mm)



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Features:

- Efficiency up to 88%
- No-load power consumption as low as 0.096W
- Isolation voltage 500VAC/1500VDC
- Operating temperature: -40°C to +85°C
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- DIP/SMD packages optional

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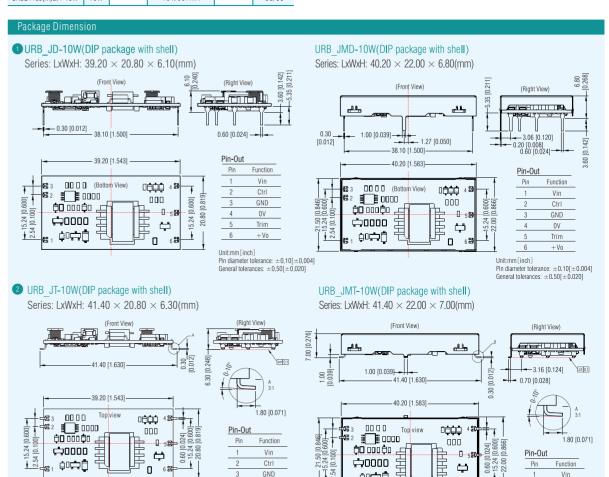








c¶N°us (€ RoHS CB Report URB J(M)D/T-10W Power Input Voltage Output Voltage/Current Isolation Fff(%) URB2405J(M)D/T-10W 10W 5V/2000mA 82/84 URB2412J(M)D/T-10W 10W 12V/833mA 1500 85/87 URB2415J(M)D/T-10W 10W 15V/667mA 86/88



Ctrl

GND

0V

Trim

 $+V_0$

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$

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Dπ

Pin diameter tolerance: ±0.10[±0.004] 5

Pin Function

Vin

Ctrl

GND

0٧

Trim

 $+V_0$

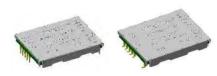
Wide Input Voltage

3W

Ultra-thin SMD Package, Isolated & Regulated Output Series

Features:

- Wide 4:1 input voltage range
- Efficiency up to 89%
- Isolation voltage 1500VDC
- Operating temperature: -40°C to +85°C
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- DIP/SMD packages optional
- EN62368 approved, meet IEC/UL62368 standards

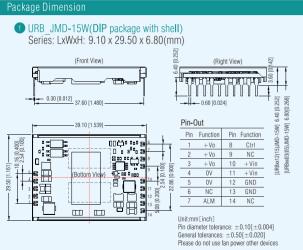


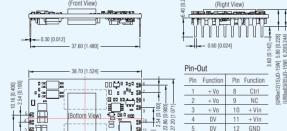


URB_J(M)D/T-15W

Model Number Po	wer I n	out Voltage ((VDC)	Output Voltage/Curren (Vo/Io)	t Isolation (VDC)	n Eff(%) (typ)	
URB2403J(M)D/T-15W	15W		3.3V/4500mA		86/88	
URB2405J(M)D/T-15W	15W	9-36	5V/3000mA	1500	86/88	
URB2412J(M)D/T-15W	15W	(24VDC)	12V/1250mA	1300	87/89	
URB2415J(M)D/T-15W	15W		15V/1000mA		87/89	

Model Number P	ower I n	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt I solatio (VDC)	
URB4803J(M)D/T-15W	15W		3.3V/4500mA		86/88
URB4805J(M)D/T-15W	15W	18-75	5V/3000mA	1500	86/88
URB4812J(M)D/T-15W	15W	(48VDC)	12V/1250mA	1300	87/89
URB4815J(M)D/T-15W	15W		15V/1000mA		87/89



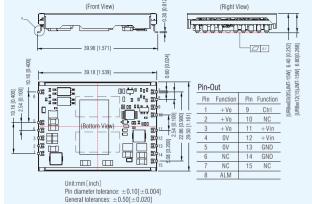


7 ALM 14 NC

h] Unit:mm [inch] Inditarance: ±0.10[±0.004] Pin diameter tolerance: ±0.10[±0.004] Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020] tuse fan power other devices Please do not use fan power other devices

2 URB_JMT-15W(DIP package with shell) Series: LxWxH: 39.90 x 29.50 x 6.80(mm)

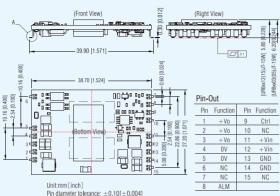
Please do not use fan power other devices





URB JD-15W(DIP package with shell)

Series: LxWxH: 38.70 x 27.20 x 6.20(mm)



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General tolerances: $\pm 0.50[\pm 0.020]$

Please do not use fan power other devices

Features:

- Suitable for industrial control, electric power, instrumentation, communication applications
- Operating temperature: -40° C to $+85^{\circ}$ C
- High efficiency up to 84%
- No-load power consumption as low as 0.1W
- Input under-voltage protection, output short-circuit protection, over-current protection
- . International standard pin-out

3W

3W

3W

3W

(48VDC)

URB4803MT-3WR3

URB4805MT-3WR3

URB4812MT-3WR3

URB4815MT-3WR3 URB4824MT-3WR3

• IEC/UL/EN60950 approved



URB MT-3WR3 c¶ CE RoHS CB Report Input Voltage Output Voltage/Current Isolation Eff(%) (VDC) (Vo/Io) (VDC) (tvn) Model Number Power URB2403MT-3WR3 3W 3.3V/728mA 73/75 URB2405MT-3WR3 3W 5V/600mA 78/80 URB2409MT-3WR3 3W 9V/333mA 78/80 9-36 1500 3W (24VDC) URB2412MT-3WR3 12V/250mA 80/82 URB2415MT-3WR3 3W 15V/200mA 81/83 3W 24V/125mA URB2424MT-3WR3 80/82

3.3V/728mA

5V/600mA

12V/250mA

15V/200mA

24V/125mA

73/75

77/79

80/82

82/84

80/82

1500

● URB_MT-3WR3 Series : LxWxH: 19.20 × 18.10 × 10.16(mm)	Package Dimension	
(Fight View) (Right View) (Right View) 000	URB_MT-3WR3 Series : LxWxH: 19.20	× 18.10 × 10.16(mm)
1.65 [0.065] 1.65	19.20[0.756] 19.20[0.756] 15.24[0.600] 14 9 8 [E. L. 0] (Top View)	1.65 [0.065]

[.] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

Wide Input Voltage 1-3W SIP Package, Isolated & Regulated Output Series

Features:

- Suitable for communication, instrumentation, industrial electronics applications
- Operating temperature: -40°C to +85°C
- Continuous output short-circuit protection (self-recovery)
- Remote ON/OFF
- Low ripple & noise
- EN62368 approved





WRA S-1WR2



Product Progra					首原変形
Model Number	Powe	nput Vol (VDC	tage Output Voltage/Curr) (Vo/Io)	rent I solat (VDC	
WRA0505S-1WR2	1W		± 5V/ ± 100mA		71/73
WRA0512S-1WR2	1W	4.5-9 (5VDC)	± 12V/ ± 42mA	1500	74/76
WRA0515S-1WR2	1W	(3700)	± 15V/ ± 33mA		73/75
WRA1205S-1WR2	1W		± 5V/ ± 100mA		76/78
WRA1212S-1WR2	1W	9-18 (12VDC)	± 12V/ ± 42mA	1500	79/81
WRA1215S-1WR2	1W	(12000)	± 15V/ ± 33mA		76/78
WRA2405S-1WR2	1W		± 5V/ ± 100mA		77/79
WRA2409S-1WR2	1W	18-36	± 9V/ ± 56mA	4500	77/79
WRA2412S-1WR2	1W	(24VDC)	± 12V/ ± 42mA	1500	77/79
WRA2415S-1WR2	1W		± 15V/ ± 33mA		77/79
WRA4805S-1WR2	1W		± 5V/ ± 100mA		74/76
WRA4812S-1WR2	1W	36-75 (48VDC)	± 12V/ ± 42mA	1500	76/78
WRA4815S-1WR2	1W	(40400)	± 15V/ ± 33mA		78/80

WRB S-1WR2



(48VDC)

WRE S-1WR2



i iouucti iogia					
Model Number	Powe	Input Vo	ltage Output Voltage/Curi) (Vo/Io)	rent I solat (VD(
WRE0505S-1WR2	1W	4.5-9	± 5V/ ± 100mA		71/73
WRE0512S-1WR2	1W	(5VDC)	± 12V/ ± 42mA	3000	74/76
WRE0515S-1WR2	1W		± 15V/ ± 33mA		73/75
WRE1205S-1WR2	1W	9-18	± 5V/ ± 100mA		76/78
WRE1212S-1WR2	1W	(12VDC)	± 12V/ ± 42mA	3000	79/81
WRE1215S-1WR2	1W		± 15V/ ± 33mA		76/78
WRE2405S-1WR2	1W	18-36	± 5V/ ± 100mA		77/79
WRE2412S-1WR2	1W	(24VDC)	± 12V/ ± 42mA	3000	77/79
WRE2415S-1WR2	1W	(= : : /	± 15V/ ± 33mA		77/79
WRE4805S-1WR2	1W	00.75	± 5V/ ± 100mA		74/76
WRE4812S-1WR2	1W	36-75 (48VDC)	± 12V/ ± 42mA	3000	76/78
WRE4815S-1WR2	1W	(10150)	± 15V/ ± 33mA		78/80

WRF S-1WR2



Product Progra					
Model Number	Powe	r Input Vo r (VDC	Itage Output Voltage/Curi) (Vo/lo)	rent I solat (VD0	
WRF0503S-1WR2	1W		3.3V/303mA		69/71
WRF0505S-1WR2	1W	4.5-9	5V/200mA		70/72
WRF0512S-1WR2	1W	(5VDC)	12V/83mA	3000	74/76
WRF0515S-1WR2	1W		15V/67mA		73/75
WRF1203S-1WR2	1W		3.3V/303mA		73/75
WRF1205S-1WR2	1W		5V/200mA		75/77
WRF1209S-1WR2	1W	9-18	9V/111mA	3000	77/79
WRF1212S-1WR2	1W	(12VDC)	12V/83mA		77/79
WRF1215S-1WR2	1W		15V/67mA		78/80
WRF2403S-1WR2	1W		3.3V/303mA		73/75
WRF2405S-1WR2	1W		5V/200mA		75/77
WRF2412S-1WR2	1W	18-36	12V/83mA	3000	76/78
WRF2415S-1WR2	1W	(24VDC)	15V/67mA		76/78
WRF2424S-1WR2	1W		24V/42mA		75/77
WRF4803S-1WR2	1W		3.3V/303mA		73/75
WRF4805S-1WR2	1W	36-75	5V/200mA	3000	74/76
WRF4812S-1WR2	1W	(48VDC)	12V/83mA	3000	78/80
WRF4815S-1WR2	1W		15V/67mA		77/79

URD_S-3WR3



Product Program							
	Model Number	Powe		Input Voltage Output Voltage/Current (VDC) (Vo/lo)			Eff(%) (typ)
	URD480505S-3WR3	3W	40.75	5/5(VDC)	300/300(mA)		76/78
	URD480512S-3WR3	3W	18-75 (48VDC)	5/12(VDC)	300/125(mA)	3000	76/78
	URD480524S-3WR3	3W	(40000)	5/24(VDC)	300/63(mA)		76/78

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WRA S-3WR2



Model Number Power Voltage (VDC) Input Voltage (Vo/Io) Lisolation (VDC) Eff(%) (VDC) WRA0505S-3WR2 3W ± 5V/±250mA 72/74 WRA0512S-3WR2 3W 4.5-9 ± 12V/±104mA 75/77	oduct Prograi
VRA0512S-3WR2 3W 4 5-9 ± 12V/±104mA 75/77	lodel Number
	RA0505S-3WR2
	RA0512S-3WR2
VRA0515S-3WR2 3W (5VDC) ±15V/±83mA 1500 75/77	RA0515S-3WR2
VRA0524S-3WR2 3W ± 24V/ ± 52mA 74/76	RA0524S-3WR2
VRA1205S-3WR2 3W ± 5V/ ± 300mA 76/78	RA1205S-3WR2
VRA1209S-3WR2 3W 9-18 ±9V/±167mA 76/78	RA1209S-3WR2
VRA1212S-3WR2 3W (12VDC) ± 12V/ ± 125mA 1500 77/79	RA1212S-3WR2
VRA1215S-3WR2 3W ± 15V/ ± 100mA 78/80	RA1215S-3WR2
VRA2405S-3WR2 3W ± 5V/ ± 300mA 77/79	RA2405S-3WR2
VRA2409S-3WR2 3W 18-36 ± 9V/±167mA 79/81	RA2409S-3WR2
VRA2412S-3WR2 3W (24VDC) ± 12V/ ± 125mA 1500 81/83	RA2412S-3WR2
VRA2415S-3WR2 3W ± 15V/ ± 100mA 81/83	RA2415S-3WR2

WRB S-3WR2



Mub_9-9	W n	_		(E RoH	S
Product Progra	m				
Model Number	Power	Input Vol	tage Output Voltage/Curr) (Vo/Io)	ent I solati (VDC	
WRB0503S-3WR2	3W		3.3V/758mA		66/68
WRB0505S-3WR2	3W		5V/500mA		71/73
WRB0509S-3WR2	3W	4.5-9	9V/278mA		72/74
WRB0512S-3WR2	3W	(5VDC)	12V/208mA	1500	75/77
WRB0515S-3WR2	3W		15V/167mA		72/74
WRB0524S-3WR2	3W		24V/104mA		74/76
WRB1203S-3WR2	3W		3.3V/758mA		73/75
WRB1205S-3WR2	3W		5V/600mA		74/76
WRB1206S-3WR2	3W		6V/500mA		77/79
WRB1209S-3WR2	3W	9-18	9V/333mA	1500	77/79
WRB1212S-3WR2	3W	(12VDC)	12V/250mA	1000	80/82
WRB1215S-3WR2	3W		15V/200mA		81/83
WRB1224S-3WR2	3W		24V/125mA		79/81
WRB2403S-3WR2	3W		3.3V/758mA		72/74
WRB2405S-3WR2	3W		5V/600mA		79/81
WRB2409S-3WR2	3W	18-36	9V/333mA		81/83
WRB2412S-3WR2	3W	(24VDC)	12V/250mA	1500	81/83
WRB2415S-3WR2	3W	,	15V/200mA		81/83

24V/125mA

WRE S-3WR2

Product Progra	am				
Model Number	Powe	nput Vol r (VDC	tage Output Voltage/Curi	rent I solat (VDC	
WRE0505S-3WR2	3W		± 5V/ ± 250mA		72/74
WRE0512S-3WR2	3W	4.5-9 (5VDC)	± 12V/ ± 104mA	3000	75/77
WRE0515S-3WR2	3W	(3700)	± 15V/ ± 83mA		75/77
WRE1205S-3WR2	3W		± 5V/ ± 300mA		76/78
WRE1212S-3WR2	3W	9-18 (12VDC)	± 12V/ ± 125mA	3000	77/79
WRE1215S-3WR2	3W	(12106)	± 15V/ ± 100mA		78/80
WRE2405S-3WR2	3W		± 5V/ ± 300mA		77/79
WRE2409S-3WR2	3W	18-36	± 9V/ ± 167mA		79/81
WRE2412S-3WR2	3W	(24VDC)	± 12V/ ± 125mA	3000	81/83
WRE2415S-3WR2	3W		± 15V/ ± 100mA		81/83
WRE4805S-3WR2	3W		± 5V/ ± 300mA		77/79
WRE4812S-3WR2	3W	36-75 (48VDC)	± 12V/ ± 125mA	3000	80/82
WRE4815S-3WR2	3W	(48VDC)	± 15V/ ± 100mA		80/82

WRF S-3WR2

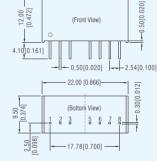


Product Progra	am				
Model Number	Power	Input Vol (VDC	tage Output Voltage/Curi) (Vo/lo)	ent I solat (VDC	
WRF0505S-3WR2	3W		5V/500mA		71/73
WRF0509S-3WR2	3W	4.5-9	9V/278mA		72/74
WRF0512S-3WR2	3W	(5VDC)	12V/208mA	3000	75/77
WRF0515S-3WR2	3W		15V/167mA		72/74
WRF1203S-3WR2	3W		3.3V/758mA		73/75
WRF1205S-3WR2	3W		5V/600mA		74/76
WRF1209S-3WR2	3W	9-18	9V/333mA		77/79
WRF1212S-3WR2	3W	(12VDC)	12V/250mA	3000	80/82
WRF1215S-3WR2	3W		15V/200mA		81/83
WRF1224S-3WR2	3W		24V/125mA		79/81
WRF2403S-3WR2	3W		3.3V/758mA		72/74
WRF2405S-3WR2	3W		5V/600mA		79/81
WRF2409S-3WR2	3W	18-36	9V/333mA		81/83
WRF2412S-3WR2	3W	(24VDC)	12V/250mA	3000	81/83
WRF2415S-3WR2	3W		15V/200mA		81/83
WRF2424S-3WR2	3W		24V/125mA		81/83

WRB2424S-3WR2 3W

WRA/B/E/F S-1WR2,WRA/B/E/F S-3WR2

Series: LxWxH: 22.00 × 9.50 × 12.00(mm)



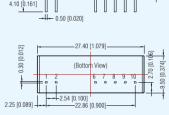
GND +V0 +V0

81/83

NC: No connection

Unit:mm[inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$

2 URD S-3WR3 Series: LxWxH: 27.40 × 9.50 × 12.00(mm)



(Front View)

	1	GND	
	2	Vin	
	6	+V0	_
	7	0V1	_
	8	CS	
	9	0v2	
	10	+V02	
-			-
	nit:mm [i		. 0 401 . 0
		er tolerance:	

Pin-Out

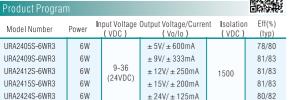
Pin Function

Wide Input Voltage DIP Package, Isolated & Regulated Output Series

Features:

- Suitable for industrial control, electric power, instrumentation, communication applications
- Operating temperature: -40° C to $+85^{\circ}$ C/ -40° C to $+105^{\circ}$ C
- No-load power consumption as low as 0.11W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- Meet CISPR22/EN55022 CLASS A
- International standard pin-out
- High power density
- EN62368 approved

URA S-6WR3



URB S-6WR3

				-	2432233
Product Progran	1				部分数
Model Number	Power In	put Voltage (VDC)	Output Voltage/Currei (Vo/lo)	nt I solatio (VDC)	
URB2403S-6WR3	6W		3.3V/1350mA		76/78
URB2405S-6WR3	6W		5V/1200mA		80/82
URB2409S-6WR3	6W	9-36	9V/667mA		82/84
URB2412S-6WR3	6W	(24VDC)	12V/500mA	1600	84/86
URB2415S-6WR3	6W		15V/400mA		85/87
URB2424S-6WR3	6W		24V/250mA		83/85

IIRR S-10WP3

URB_S-10	WR3			C€ RoHS				
Product Program								
Model Number	Power In	put Voltage (VDC)	Output Voltage/Currei (Vo/lo)	nt I solation (VDC)	,			
URB2403S-10WR3	10W		3.3V/2400mA		83/85			
URB2405S-10WR3	10W		5V/2000mA		86/88			
URB2409S-10WR3	10W	9-36	9V/1111mA		86/88			
URB2412S-10WR3	10W	(24VDC)	12V/833mA	1500	86/88			
URB2415S-10WR3	10W	, ,	15V/667mA		86/88			
URB2424S-10WR3	10W		24V/417mA		86/88			

VRB S-6WR3



					Elwitone:
Model Number	Powe	nput Vo r (VDC	tage Output Voltage/Curi) (Vo/Io)	rent I solat (VD(
VRB1203S-6WR3	6W		3.3V/1350mA		74/76
VRB1205S-6WR3	6W		5V/ ± 1200mA		78/80
VRB1209S-6WR3	6W	9-18	9V/ ± 667mA	1600	80/82
VRB1212S-6WR3	6W	(12VDC)	12V/ ± 500mA		82/84
VRB1215S-6WR3	6W		15V/ ± 400mA		82/84
VRB1224S-6WR3	6W		24V/ ± 250mA		82/84
VRB2403S-6WR3	6W		3.3V/1350mA		76/78
VRB2405S-6WR3	6W		5V/ ± 1200mA		80/82
VRB2409S-6WR3	6W	18-36	9V/ ± 667mA	4000	82/84
VRB2412S-6WR3	6W	(24VDC)	12V/ ± 500mA	1600	84/86
VRB2415S-6WR3	6W		15V/ ± 400mA		85/87
VRB2424S-6WR3	6W		24V/ ± 250mA		83/85

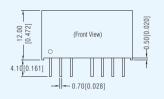
VRB S-10WR3

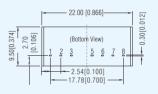


Model Number	Powe	Input Vo r (VDC	ltage Output Voltage/Cur) (Vo/lo)	rent I solat (VD(
VRB1203S-10WR3	10W		3.3V/2400mA		81/83
VRB1205S-10WR3	10W		5V/2000mA		84/86
VRB1209S-10WR3	10W	9-18	9V/1111mA		84/86
VRB1212S-10WR3	10W	(12VDC)	12V/833mA	1500	84/86
VRB1215S-10WR3	10W		15V/667mA		84/86
VRB1224S-10WR3	10W		24V/417mA		84/86
VRB2403S-10WR3	10W		3.3V/2400mA		83/85
VRB2405S-10WR3	10W		5V/2000mA		86/88
VRB2409S-10WR3	10W	18-36	9V/1111mA		86/88
VRB2412S-10WR3	10W	(24VDC)	12V/833mA	1500	86/88
VRB2415S-10WR3	10W		15V/667mA		86/88
VRB2424S-10WR3	10W		24V/417mA		86/88

lacktriangled URA/B S-6WR3, URB S-10WR3, VRB S-6WR3, VRB S-10WR3 Series: LxWxH: 22.00 \times 9.50 \times 12.00(mm)

CE ROHS TO THE





Unit:mm [inch]	
Pin diameter tolerance: ±0.10[±0.004]	
General tolerances: $\pm 0.50[\pm 0.020]$	

Pin-Out		
Pin	URA/VRASeries	URB/VRBSeries
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+V0	+ Vo
7	0V	0V
- 8	-Vo	NC

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

NC: No connection

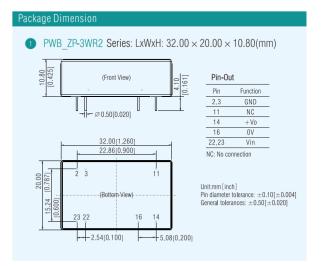
Features:

- Suitable for communication, instrumentation, industrial electronics applications
- Operating temperature: -40°C to +85°C
- Continuous output short-circuit protection (self-recovery)
- Low ripple & noise
- EN60950 approved



C € RoHS PWB ZP-3WR2 Input Voltage Output Voltage/Current Isolation Model Number Power (VDC) (Vo/lo) (VDC) PWR2/037P_3WR2 3.3V/909mA 73/75 3W PWB24057P-3WR2 3W 5V/600mA 78/80 PWB2409ZP-3WR2 3W 9V/333mA 78/80 1500 PWB2412ZP-3WR2 3W 12V/250mA 79/81 3W 15V/200mA PWR24157P_3WR2 80/82 PWB2424ZP-3WR2 3W 24V/125mA 80/82 PWB4803ZP-3WR2 3W 3.3V/909mA 74/76 PWR48057P_3WR2 3W 5V/600m A 77/79 PWR48097P_3WR2 3W 9V/333mA 79/81 18-75 PWB4812ZP-3WR2 3W 12V/250mA 80/82 (48VDC) PWB4815ZP-3WR2 3W 15V/200mA 81/83 3W PWB48247P-3WB2 24V/125mA 79/81

- 1. Series with suffix "ZP" are standard DIP24 packaged with aluminum alloy casing. And for detailed dimension please refer to the illustration.
- 2. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as FC-AX3D, FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales. 。



[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

Wide Input Voltage 3-10W DIP Package, Isolated & Regulated Output Series

Features:

- Suitable for industrial control, electric power, instrumentation, communication applications
- Operating temperature: -40°C to +85°C
- No-load power consumption as low as 0.11W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- Meet CISPR22/EN55022 CLASS A
- International standard pin-out
- IEC/UL/EN62368 approved



WRA_ZP-	C€ Rol	IS ICAL			
Product Progra					
Model Number	Power	Input Vol (VDC	tage Output Voltage/Curr) (Vo/lo)	ent I solat (VDC	
WRA0505ZP-3WR2	3W		± 5V/ ± 300mA		74/76
WRA0509ZP-3WR2	3W	4.5-9	± 9V/ ± 166mA		74/76
WRA0512ZP-3WR2	3W	(5VDC)	± 12V/ ± 125mA	1500	76/78
WRA0515ZP-3WR2	3W		± 15V/ ± 100mA		76/78
WRA1205ZP-3WR2	3W		± 5V/ ± 300mA	1500	79/81
WRA1209ZP-3WR2	3W	9-18	± 9V/ ± 166mA		82/84
WRA1212ZP-3WR2	3W	(12VDC)	± 12V/ ± 125mA		82/84
WRA1215ZP-3WR2	3W		± 15V/ ± 100mA		83/85
WRA2405ZP-3WR2	3W		± 5V/ ± 300mA		80/82
WRA2412ZP-3WR2	3W	18-36 (24VDC)	± 12V/ ± 125mA	1500	82/84
WRA2415ZP-3WR2	3W	(24100)	± 15V/ ± 100mA		82/84
WRA4805ZP-3WR2	3W		± 5V/ ± 300mA		80/82
WRA4812ZP-3WR2	3W	36-75	± 12V/ ± 125mA		82/84
WRA4815ZP-3WR2	3W	(48VDC)	± 15V/ ± 100mA	1500	83/85
WRA4824ZP-3WR2	3W		± 24V/ ± 63mA		82/84

WR

RB_ZP-		2	(€	RoHS	
duct Progra						
del Number	Power	Input Voltage (VDC)	Output Voltage/Current (Vo/lo)		solation (VDC)	Eff(%) (typ)

Product Progra	m				回貨物逐步的
Model Number	Power	Input Vol	tage Output Voltage/Curr) (Vo/lo)	rent I solat (VDC	
WRB0505ZP-3WR2	3W		5V/600mA		72/74
WRB0512ZP-3WR2	3W	4.5-9 (5VDC)	12V/250mA	1500	75/77
WRB0515ZP-3WR2	3W	(3400)	15V/200mA		75/77
WRB1203ZP-3WR2	3W		3.3V/909mA		72/74
WRB1205ZP-3WR2	3W	9-18 (12VDC)	5V/600mA		79/81
WRB1212ZP-3WR2	3W		12V/250mA	1500	81/83
WRB1215ZP-3WR2	3W		15V/200mA		80/82
WRB1224ZP-3WR2	3W		24V/125mA		81/83
WRB2403ZP-3WR2	3W		3.3V/909mA		76/78
WRB2405ZP-3WR2	3W	18-36	5V/600mA	1500	79/81
WRB2409ZP-3WR2	3W		9V/333mA		79/81
WRB2412ZP-3WR2	3W	(24VDC)	12V/250mA		84/86
WRB2415ZP-3WR2	3W		15V/200mA		84/86
WRB2424ZP-3WR2	3W		24V/125mA		83/85
WRB4803ZP-3WR2	3W		3.3V/909mA		74/76
WRB4805ZP-3WR2	3W		5V/600mA		80/82
WRB4812ZP-3WR2	3W	36-75	12V/250mA	1500	84/86
WRB4815ZP-3WR2	3W	(48VDC)	15V/200mA		84/86
WRB4824ZP-3WR2	3W		24V/125mA		82/84

1. Series with suffix "ZP" are standard DIP24 packaged with aluminum alloy casing.

2. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as FC-AX3D, FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales.

VRA ZP-6WR3 Input Voltage Output Voltage/Current Isolation Eff(%) (VDC) (VDC) (typ) Model Number Power VRA0505ZP-6WR3 ±5V/±600mA 76/78 VRA0512ZP-6WR3 6W $\pm 12V/ \pm 250 mA$ 82/84 4 5-9 1500 VRA05157P-6WR3 6W (5VDC) 82/84 ± 15V/ ± 200mA VRA0524ZP-6WR3 6W ± 24V/ ± 125mA 82/84 78/80 VRA1205ZP-6WR3 6W $\pm 5V/ \pm 600 mA$ VRA12127P-6WR3 6W 82/84 + 12V/ + 250mA 1500 VRA1215ZP-6WR3 6W (12VDC) ± 15V/ ± 200mA 83/85 VRA1224ZP-6WR3 6W 82/84 ± 24V/ ± 125mA 81/83 VRA2405ZP-6WR3 6W \pm 5V/ \pm 600mA VRA2412ZP-6WR3 6W 84/86 18-36 $\pm 12V/ \pm 250mA$ 1500 VRA2415ZP-6WR3 6W (24VDC) 85/87 ± 15V/ ± 200mA VRA2424ZP-6WR3 6W 83/85 ± 24V/ ± 125mA VRA48057P-6WR3 6W ± 5V/ ± 600mA 81/83 VRA4812ZP-6WR3 6W 85/87 ± 12V/ ± 250mA 1500

± 15V/ ± 200mA

 $\pm 24V/ \pm 125mA$

VRB ZP-6WR3

6W

VRA4815ZP-6WR3

VRA4824ZP-6WR3 6W



83/85

83/85

Product Program						
Model Number	Power	nput Vol (VDC	tage Output Voltage/Curi) (Vo/lo)	rent I solati (VDC		
VRB0505ZP-6WR3	6W		5V/1200mA		76/78	
VRB0512ZP-6WR3	6W	4.5-9	12V/500mA	1500	82/84	
VRB0515ZP-6WR3	6W	(5VDC)	15V/400mA	1500	82/84	
VRB0524ZP-6WR3	6W		24V/250mA		82/84	
VRB1203ZP-6WR3	6W	9-18 (12VDC)	3.3V/1500mA		73/75	
VRB1205ZP-6WR3	6W		5V/1200mA		78/80	
VRB1212ZP-6WR3	6W		12V/500mA	1500	82/84	
VRB1215ZP-6WR3	6W		15V/400mA		83/85	
VRB1224ZP-6WR3	6W		24V/250mA		83/85	
VRB2403ZP-6WR3	6W		3.3V/1500mA		76/78	
VRB2405ZP-6WR3	6W		5V/1200mA		80/82	
VRB2412ZP-6WR3	6W	18-36 (24VDC)	12V/500mA	1500	83/85	
VRB2415ZP-6WR3	6W	(24700)	15V/400mA		84/86	
VRB2424ZP-6WR3	6W		24V/250mA		84/86	
VRB4803ZP-6WR3	6W		3.3V/1500mA		77/79	
VRB4805ZP-6WR3	6W	00.75	5V/1200mA		81/83	
VRB4812ZP-6WR3	6W	36-75 (48VDC)	12V/500mA	1500	85/87	
VRB4815ZP-6WR3	6W	(40400)	15V/400mA		86/88	
VRB4824ZP-6WR3	6W		24V/250mA		85/87	

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

URA ZP-6WR3

c¶Nus (€ RoHS CB Report



Product Program					■E445466
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Curre (Vo/Io)	ent I solati (VDC	
URA2405ZP-6WR3	6W		± 5V/ ± 600mA		81/83
URA2409ZP-6WR3	6W	9-36 (24VDC)	± 9V/ ± 333mA		84/86
URA2412ZP-6WR3	6W		± 12V/ ± 250mA	1500	85/87
URA2415ZP-6WR3	6W		± 15V/ ± 200mA		86/88
URA2424ZP-6WR3	6W		± 24V/ ± 125mA		85/87
URA4805ZP-6WR3	6W	18-75	± 5V/ ± 600mA		81/83
URA4812ZP-6WR3	6W	(48VDC)	± 12V/ ± 250mA	1500	85/87
URA4815ZP-6WR3	6W		± 15V/ ± 200mA		86/88

URB ZP-6WR3

c¶Nus C € RoHS CB Report



Model Number Power (VDC) (Vo/Io) (VDC) (typ	ribuuctribyiaii	yraiii			回場的機能
	Model Number				n Eff(%) (typ)
UBD/4U3/F=DWB3 DW 3V/1/UUIIA 01/0					77/79
URB2409ZP-6WR3 6W 9-36 9V/667mA 82/8		22 6/W	1.7		82/84
(2.1.20)		(21100	,	1500	85/87 86/88
URB2424ZP-6WR3 6W 24V/250mA 85/8	URB2424ZP-6WR3	3 6W	24V/250mA		85/87
					78/80 82/84
18-75		18-75	- 1, - 2 - 1 - 1 - 1	1500	83/85
UND4012ZF=UWN3 UW (48VDC) 12V/3UUIIA 03/0		(10100	7	1000	85/87 86/88
URB4824ZP-6WR3 6W 24V/250mA 85/8	URB4824ZP-6WR3	13 6W	24V/250mA		85/87

URB ZP-10WR3

Model Number	Power	Input Voltag (VDC)	e Output Voltage/Curre (Vo/lo)	ent I solati (VDC	. ,
URB2403ZP-10WR3	10W		3.3V/2400mA		85/87
URB2405ZP-10WR3	10W		5V/2000mA		86/88
URB2412ZP-10WR3	10W	9-36 (24VDC)	12V/833mA	1500	85/87
URB2415ZP-10WR3	10W		15V/667mA		85/87
URB2424ZP-10WR3	10W		24V/416mA		86/88
URB4803ZP-10WR3	10W		3.3V/2400mA		84/86
URB4805ZP-10WR3	10W	18-75 (48VDC)	5V/2000mA		85/87
URB4812ZP-10WR3	10W		12V/833mA	1500	85/87
URB4815ZP-10WR3	10W		15V/667mA		85/87

VRA ZP-10WR3



Product Progran	ı				
Model Number	Power	Input Voltage (VDC)	e Output Voltage/Currei (Vo/lo)	nt I solatio (VDC)	
VRA1205ZP-10WR3	10W	0.40	± 5V/ ± 1000mA		81/83
VRA1212ZP-10WR3	10W	9-18 (12VDC)	± 12V/ ± 416mA	1500	85/87
VRA1215ZP-10WR3	10W		± 15V/ ± 333mA		85/87
VRA2405ZP-10WR3	10W		± 5V/ ± 1000mA		81/83
VRA2412ZP-10WR3	10W	18-36 (24VDC)	± 12V/ ± 416mA	1500	85/87
VRA2415ZP-10WR3	10W	(24700)	± 15V/ ± 333mA		85/87
VRA4805ZP-10WR3	10W	00.75	± 5V/ ± 1000mA		81/83
VRA4812ZP-10WR3	10W	36-75 (48VDC)	± 12V/ ± 416mA	1500	85/87
VRA4815ZP-10WR3	10W	(40VDC)	± 15V/ ± 333mA		85/87

VRR 7P-10WR3

C C ROHS



* II D I	C Kons	(2) (P)			
Product Program					
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Currer (Vo/lo)	nt I solatio (VDC)	
VRB1203ZP-10WR3	10W		3.3V/2400mA		85/87
VRB1205ZP-10WR3	10W		5V/2000mA		85/87
VRB1212ZP-10WR3	10W	9-18	12V/833mA	1500	85/87
VRB1215ZP-10WR3	10W	(12VDC)	15V/667mA		85/87
VRB1224ZP-10WR3	10W		24V/416mA		86/88
VRB2403ZP-10WR3	10W		3.3V/2400mA		85/87
VRB2405ZP-10WR3	10W		5V/2000mA		86/88
VRB2412ZP-10WR3	10W	18-36	12V/833mA	1500	85/87
VRB2415ZP-10WR3	10W	(24VDC)	15V/667mA		85/87
VRB2424ZP-10WR3	10W		24V/416mA		86/88
VRB4803ZP-10WR3	10W		3.3V/2400mA		85/87
VRB4805ZP-10WR3	10W		5V/2000mA		86/88
VRB4812ZP-10WR3	10W	36-75	12V/833mA	1500	85/87
VRB4815ZP-10WR3	10W	(48VDC)	15V/667mA		85/87
VRR48247P-10WR3	10W		24V/416mA		86/88

URA ZP-10WR3

Product Program					自然基础
Model Number	Power	Input Voltage Output Voltage/Current (VDC) (Vo/Io)		nt I solatio (VDC)	
URA2405ZP-10WR3	10W	0.00	± 5V/ ± 1000mA		81/83
URA2412ZP-10WR3	10W	9-36 (24VDC)	± 12V/ ± 416mA	1500	85/87
URA2415ZP-10WR3	10W	(21100)	± 15V/ ± 333mA		85/87
URA4805ZP-10WR3	10W		± 5V/ ± 1000mA		81/83
URA4812ZP-10WR3	10W	18-75 (48VDC)	± 12V/ ± 416mA	1500	85/87
URA4815ZP-10WR3	10W		± 15V/ ± 333mA		85/87

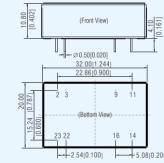
Package Dimension

URB4824ZP-10WR3

1 WRA/B ZP-3WR2, VRA/B ZP-6WR3, URA/B ZP-6WR3

24V/416mA

Series: LxWxH: $32.00 \times 20.00 \times 10.80$ (mm)

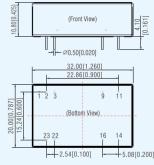


Pin-Ou	t							
Pin	Single	Dual						
2,3	GND	GND						
9	No Pin	OV						
11	NC	-Vo						
14	+V0	+V0						
16	0V	0V						
22,23	Vin	Vin						
NC: No co	NC: No connection							
Unit-mm[inch]								

86/88

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$

2 VRA/B ZP-10WR3, URA/B ZP-10WR3 Series: LxWxH: 32.00 × 20.00 × 10.80(mm)



	Pin-Out		
	Pin	Single	Dual
<u>.</u>	1	Ctrl	Ctrl
	2,3	GND	GND
	9	No Pin	0V
	11	NC	-Vo
	14	$+V_0$	+Vo
	16	0V	0V
	22,23	Vin	Vin

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004] General tolerances: $\pm 0.50[\pm 0.020]$

Features:

- Suitable for communication, instrumentation, industrial electronics applications
- Operating temperature: -40°C to +85°C
- Continuous output short-circuit protection (self-recovery)
- Remote ON/OFF
- Low ripple & noise
- High power density
- EN62368 approved

WRE P-3WR2



Product Program					
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent I solat (VDC	
WRE0505P-3WR2	3W	450	± 5V/ ± 300mA		74/76
WRE0512P-3WR2	3W	4.5-9 (5VDC)	$\pm 12V/ \pm 125mA$	3000	76/78
WRE0515P-3WR2	3W	(0100)	± 15V/ ± 100mA		76/78
WRE1205P-3WR2	3W		± 5V/ ± 300mA		79/81
WRE1209P-3WR2	3W	9-18 (12VDC)	$\pm 9V/ \pm 166$ mA		82/84
WRE1212P-3WR2	3W		$\pm 12V/ \pm 125$ mA	3000	82/84
WRE1215P-3WR2	3W		± 15V/ ± 100mA		83/85
WRE2405P-3WR2	3W		± 5V/ ± 300mA		80/82
WRE2412P-3WR2	3W	18-36 (24VDC)	± 12V/ ± 125mA	3000	82/84
WRE2415P-3WR2	3W	(24700)	± 15V/ ± 100mA		82/84
WRE4803P-3WR2	3W		± 3.3V/ ± 909mA		74/76
WRE4805P-3WR2	3W	36-75	$\pm 5V/ \pm 300$ mA		80/82
WRE4812P-3WR2	3W	(48VDC)	± 12V/ ± 125mA	3000	82/84
WRE4815P-3WR2	3W		± 15V/ ± 100mA		83/85

URF P-6WR3

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Product Progra					
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent I solat (VDC	,
URF2403P-6WR3 URF2405P-6WR3 URF2409P-6WR3 URF2412P-6WR3 URF2415P-6WR3 URF2424P-6WR3 URF2425P-6WR3	6W 6W 6W 6W 6W 6W	9-36 (24VDC)	3.3V/1500mA 5V/1200mA 9V/667mA 12V/500mA 15V/400mA 24V/250mA 25V/240mA	3000	77/79 80/82 83/85 84/86 86/88 85/87
URF4803P-6WR3 URF4805P-6WR3 URF4812P-6WR3 URF4815P-6WR3 URF4824P-6WR3	6W 6W 6W 6W	18-75 (48VDC)	3.3V/1500mA 5V/1200mA 12V/500mA 15V/400mA 24V/250mA	3000	77/79 81/83 85/87 86/88 85/87

WRF P-3WR2

Product Program								
	Model Number	Power	Input Voltaç (VDC)	ge	Output Voltage/Curre (Vo/lo)	ent I solat (VDC		Eff(%) (typ)
	WRF0505P-3WR2	3W	4.5.0		5V/600mA			72/74
	WRF0512P-3WR2	3W	4.5-9 (5VDC)		12V/250mA	3000		75/77
	WRF0515P-3WR2	3W	(0100)		15V/200mA			75/77
	WRF1203P-3WR2	3W			3.3V/909mA			72/74
	WRF1205P-3WR2	3W			5V/600mA			79/81
	WRF1212P-3WR2	3W	9-18 (12VDC)		12V/250mA	3000		81/83
	WRF1215P-3WR2	3W	(12406)		15V/200mA			80/82
	WRF1224P-3WR2	3W			24V/125mA			81/83
	WRF2403P-3WR2	3W			3.3V/909mA			76/78

5V/600mA

12V/250mA

15V/200mA

24V/125mA

3.3V/909mA

5V/600mA

12V/250mA

15V/200mA

URE P-6WR3

WRF2405P-3WR2

WRF2412P-3WR2

WRF2415P-3WR2

WRF2424P-3WR2

WRF4803P-3WR2

WRF4805P-3WR2

WRF4812P-3WR2

WRF4815P-3WR2

3W

3W

3W

3W

3W

3W

3W

(24VDC)

36-75

(48VDC)

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79/81

84/86

84/86

83/85

74/76

80/82

84/86

84/86

3000

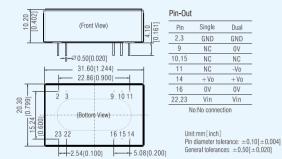
3000

Product Program					
Model Number	Power	Input Voltag	ge Output Voltage/Curr (Vo/Io)	ent I solat (VDC	
URE2405P-6WR3 URE2412P-6WR3 URE2415P-6WR3	6W 6W 6W	9-36 (24VDC)	± 5V/ ± 600mA ± 12V/ ± 250mA ± 15V/ ± 200mA	3000	78/80 82/84 83/85

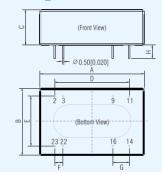
- 1. Series with suffix "P" are standard DIP24 packaged with plastic casing.
- 2. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as
- FC-AX3D, FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales.

Package Dimension

● WRE/F P-3WR2 Series: LxWxH: 31.60 × 20.30 × 10.20(mm)



2 URE/F P-6WR3 Series: LxWxH: 31.60 × 20.30 × 10.20(mm)



	URA/B_ZP-6WR3			
Pin	Single	Dual		
2,3	GND	GND		
9	No Pin	0V		
11	NC	-Vo		
14	+V0	+V0		
16	0V	0V		
22,23	Vin	Vin		

Unit:mm [inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- EN60601-1approved (3rd edition medical certified, 2xMOPP)
- Specialized for medical application, widely used in the energy storage system with low no-load power consumption
- Isolation voltage 6000VDC (reinforced insulation)
- Operating temperature: -40°C to +85°C
- No-load power consumption as low as 0.12W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- International standard pin-out
- EN62368 approved



URH P-6WR3



Product Program						
Model Number	er Power (VDC)		e Output Voltage/Cu (Vo/lo)		olation Eff(%) VDC) (typ)	
JRH2405P-6WR3 JRH2406P-6WR3 JRH2409P-6WR3 JRH2412P-6WR3 JRH2415P-6WR3 JRH2418P-6WR3 JRH2424P-6WR3	6W 6W 6W 6W 6W	9-36 (24VDC)	5V/1200mA 6V/1000mA 9V/667mA 12V/500mA 15V/400mA 18V/333mA 24V/250mA	6000	78/80 79/81 81/83 82/84 83/85 83/85 82/84	
JRH4805P-6WR3 JRH4806P-6WR3 JRH4809P-6WR3 JRH4812P-6WR3 JRH4815P-6WR3 JRH4818P-6WR3 JRH4824P-6WR3	6W 6W 6W 6W 6W 6W	18-75 (48VDC)	5V/1200mA 6V/ 9V/667mA 12V/500mA 15V/400mA 18V/ 24V/250mA	6000	79/81 81/83 82/84 83/85	

URH LP-20WR3

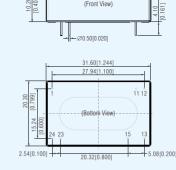
CE	Ro

Power (VDC) Output Voltage/Current Model Number (Vo/lo) (typ) 20W LIBH24031 P-20WB3 3 3V/5000mA 83/85 URH2405LP-20WR3 20W 5V/4000mA 84/86 9-36 5000 URH2412LP-20WR3 20W 12V/1666mA 84/86 (24VDC) URH2415LP-20WR3 20W 15V/1333mA 85/87 24V/833mA 87/89 URH2424LP-20WR3 20W URH4803LP-20WR3 20W 3.3V/5000mA 84/86 URH4805I P-20WR3 5V/4000mA 85/87 20W 18_75 12V/1666mA 5000 85/87 URH4812I P-20WR3 20W (48VDC) URH4815LP-20WR3 20W 15V/1333mA 86/88 24V/833mA LIRH4824LP-20WR3 87/89

- 1. Series with suffix "P" are standard DIP24 packaged with plastic casing, with suffix "LP" are 2*1 packaged with plastic casing. And for detailed dimension please refer to the illustration.
- 2. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as FC-AX3D_FC-R02D_FI-R03D and FT-RX1D are available. For more information, please contact our sales.

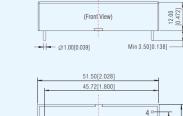
2 URH LP-20WR3 Series: LxWxH: 51.50 x 26.50 x 12.00(mm)

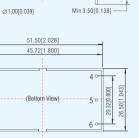
1 URH P-6WR3 Series: LxWxH: 31.60 × 20.30 × 10.20(mm)

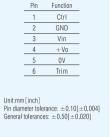


Pin-Out Pin Function 1 Vin 11 No pin 13 +Vo15 No pin 23 GND 24 GND

Pin diameter tolerance: ±0.10[±0.004] General tolerances: +0.50(+0.020)







Pin-Out

Wide Input Voltage 6-10W DIP Package, Isolated & Regulated Output Series

Features:

- Suitable for industrial control, electric power, instrumentation. communication applications
- Operating temperature: -40°C to +85°C
- No-load power consumption as low as 0.12W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- Meet CISPR22/EN55022 CLASS A
- International standard pin-out
- IEC/UL/EN60950, EN62368, EN50155 approved





A2S Chassis Mounting

A4S DIN-Rail Mounting

VRA YMD-6WR3*

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Product Program					
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolation (VDC)	n Eff(%) (typ)
VRA1205YMD-6WR3	6W	0.10	± 5V/ ± 600mA		79/81
VRA1212YMD-6WR3	6W	9-18 (12VDC)	± 12V/ ± 250mA	1500	83/85
VRA1215YMD-6WR3	6W	(12400)	± 15V/ ± 200mA		81/83
VRA2405YMD-6WR3	6W		± 5V/ ± 600mA		81/83
VRA2412YMD-6WR3	6W	18-36 (24VDC)	± 12V/ ± 250mA	1500	85/87
VRA2415YMD-6WR3	6W	(24700)	+ 15V/ + 200mA		85/87

VRB YMD-6WR3*



Product Program					
Model Number P	ower I	nput Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)	. ,
VRB1205YMD-6WR3	6W	9-18	5V/1200mA	1500	79/81
VRB1212YMD-6WR3	6W	(12VDC)	12V/500mA	1000	83/85
VRB2403YMD-6WR3	6W		3.3V/1500mA		75/77
VRB2405YMD-6WR3	6W	18-36	5V/1200mA	1500	80/82
VRB2409YMD-6WR3	6W		9V/667mA		83/85
VRB2412YMD-6WR3	6W	(24VDC)	12V/500mA		83/85
VRB2415YMD-6WR3	6W		15V/400mA		84/86
VRB2424YMD-6WR3	6W		24V/250mA		83/85
VRB4803YMD-6WR3	6W		3.3V/1500mA		77/79
VRB4805YMD-6WR3	6W	00.75	5V/1200mA		81/83
VRB4812YMD-6WR3	6W	36-75 (48VDC)	12V/500mA	1500	85/87
VRB4815YMD-6WR3	6W	(.5.50)	15V/400mA		86/88
VRB4824YMD-6WR3	6W		24V/250mA		86/88

VRB YMD-10WR3

VRB4815YMD-10WR3* 10W

VRB4824YMD-10WR3 10W

85/87

86/88

Model Number P	ower In	put Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VRB0505YMD-10WR3	10W		5V/2000mA		83/85
VRB0512YMD-10WR3	10W	4.5-9	12V/834mA	4500	81/83
VRB0515YMD-10WR3	10W	(5VDC)	15V/667mA	1500	82/84
VRB0524YMD-10WR3	10W		24V/417mA		81/83
VRB1205YMD-10WR3	10W	9-18 (12VDC)	5V/2000mA	1500	81/83
VRB2405YMD-10WR3	10W		5V/2000mA		81/83
VRB2412YMD-10WR3	10W	9-18	12V/833mA		85/87
VRB2415YMD-10WR3	10W	(12VDC)	15V/667mA	1500	86/88
VRB2424YMD-10WR3	10W		24V/416mA		86/88
VRB4803YMD-10WR3	10W		3.3V/2400mA		77/79
VRB4805YMD-10WR3	10W		5V/2000mA		81/83
VRB4812YMD-10WR3*	10W	36-75	12V/833mA	1500	85/87

15V/667mA

24V/416mA

URA YMD-6WR3*

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			Elerater.				
Model Number P		out Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)		
URA2405YMD-6WR3	6W		± 5V/ ± 600mA		81/83		
URA2412YMD-6WR3	6W	9-36	± 12V/ ± 250mA		84/87		
URA2415YMD-6WR3	6W	(24VDC)	± 15V/ ± 200mA	1500	85/87		
URA2424YMD-6WR3	6W		± 24V/ ± 125mA		85/87		
URA4805YMD-6WR3	6W	18-75	± 5V/ ± 600mA		81/83		
URA4812YMD-6WR3	6W	(48VDC)	± 12V/ ± 250mA	1500	85/87		
URA4815YMD-6WR3	6W	()	± 15V/ ± 200mA		86/88		

URB YMD-6WR3*





Product Program					
Model Number Po		t Voltage VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
URB2403YMD-6WR3	6W		3.3V/1500mA		75/77
URB2405YMD-6WR3	6W		5V/1200mA		80/83
URB2409YMD-6WR3	6W	9-36 (24VDC)	9V/667mA		83/85
URB2412YMD-6WR3	6W		12V/500mA	1500	84/87
URB2415YMD-6WR3	6W		15V/400mA		85/87
URB2424YMD-6WR3	6W		24V/250mA		86/88
URB4803YMD-6WR3	3W		3.3V/1500mA		77/79
URB4805YMD-6WR3	3W	10.75	5V/1200mA		81/83
URB4812YMD-6WR3	3W	18-75 (48VDC)	12V/500mA	1500	85/87
URB4815YMD-6WR3	3W	(10700)	15V/400mA		86/88
URB4824YMD-6WR3	3W		24V/250mA		86/88

VRA YMD-10WR3



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Model Number Po		t Voltage /DC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VRA0505YMD-10WR3 VRA0512YMD-10WR3 VRA0515YMD-10WR3 VRA0524YMD-10WR3	10W 10W 10W 10W	4.5-9 (5VDC)	±5V/±1000mA ±12V/±417mA ±15V/±334mA ±24V/±209mA	1500	76/78 81/83 82/84 81/83

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

URA YMD-10WR3

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Product Program					
Model Number Po		it Voltage VDC)	Output Voltage/Curren (Vo/Io)	t Isolatio (VDC)	n Eff(%) (typ)
URA2405YMD-10WR3 URA2409YMD-10WR3 URA2412YMD-10WR3 URA2415YMD-10WR3 URA2424YMD-10WR3	10W 10W 10W 10W 10W	9-36 (24VDC)	± 5V/ ± 1000mA ± 9V/ ± 555mA ± 12V/ ± 416mA ± 15V/ ± 333mA ± 24V/ ± 208mA	1500	81/83 84/86 85/87 85/87 85/87
URA4805YMD-10WR3 URA4812YMD-10WR3 URA4815YMD-10WR3 URA4824YMD-10WR3	10W 10W 10W 10W	18-75 (48VDC)	±5V/±1000mA ±12V/±416mA ±15V/±333mA ±24V/±208mA	1500	81/83 85/87 85/87 85/87

Note:

- 1. Series with suffix "YMD" are 1*1 packaged with aluminum alloy casing. And for detailed dimension please refer to the illustration.
- 2. Use "A2S" suffix for chassis mounting and "A4S" suffix for DIN-Rail mounting.
- 3. The A2S and A4S Model's start-up and minimum input voltages are increased by 1VDC due to the input reverse polarity protection circuit.
- 4. Products marked with "*" features no Ctrl function.
- 5. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as
- FC-AX3D, FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales.

1 VRA/B YMD-6WR3,URA/B YMD-6WR3

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- 20.32[0.800] -

5.08[0.200]

Series: LxWxH: 25.40 × 25.40 × 11.70(mm)

Pin-Out Pin Single Dual

1 GND GND

3 +V0 +V0

4 No Pin OV

5 OV -Vo

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$

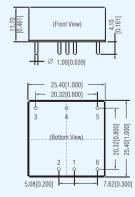
URB YMD-10WR3



			t ale us C C Itorio	- 20 C 25	
Product Program					
Model Number Po		t Voltage VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)	
URB2403YMD-10WR3 URB2405YMD-10WR3 URB2409YMD-10WR3 URB2412YMD-10WR3 URB2415YMD-10WR3 URB2424YMD-10WR3	10W 10W 10W 10W 10W	9-36 (24VDC)	3.3V/2400mA 5V/2000mA 9V/1111mA 12V/833mA 15V/667mA 24V/416mA	1500	76/78 81/83 83/85 84/86 84/86 86/88
URB4803YMD-10WR3 URB4805YMD-10WR3 URB4812YMD-10WR3 URB4815YMD-10WR3 URB4824YMD-10WR3	10W 10W 10W 10W 10W	18-75 (48VDC)	3.3V/2400mA 5V/2000mA 12V/833mA 15V/667mA 24V/416mA	1500	77/79 81/83 85/87 85/87 86/88

2 VRA/B YMD-10WR3, URA/B YMD-10WR3

Series: LxWxH: $25.40 \times 25.40 \times 11.70$ (mm)



Pin	Single	Dual
1	GND	GND
2	Vin	Vin
3	+V0	+V0
4	No Pin	0٧
5	0V	-Vo
6	Ctrl	Ctrl

Pin diameter tolerance: ±0.10f±0.0041

Wide Input Voltage 15-30W DIP Package, Isolated & Regulated Output Series

Features:

- Suitable for industrial control, electric power, instrumentation. communication applications
- Operating temperature: -40°C to +85°C
- No-load power consumption as low as 0.12W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- Meet CISPR22/EN55022 CLASS A
- International standard pin-out
- IEC/UL/EN60950, EN62368 approved





A2S Chassis Mounting

A4S DIN-Rail Mounting

VRB YMD-15WR3



VRB	YMD-20WR3
Produc	t Program



84/86

87/89

87/89

88/90

88/90

86/88

88/90 88/90

89/91

89/91

86/88

88/90

89/91

89/91

89/91

Product Program						Product Program				
Model Number - F	Power Inp	ut Voltage VDC)	Output Voltage/Current (Vo/Io)	Isolatio (VDC)	. ,	Model Number P	ower Inp	out Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solatio
VRB1203YMD-15WR3	15W		3.3V/4000mA		86/88	VRB1203YMD-20WR3	20W		3.3V/5000mA	
VRB1205YMD-15WR3	15W		5V/3000mA	000mA	88/90	VRB1205YMD-20WR3	20W		5V/4000mA	
VRB1212YMD-15WR3	15W	9-18	12V/1250mA	1500	88/90	VRB1212YMD-20WR3	20W	9-18 (12VDC)	12V/1667mA	1500
VRB1215YMD-15WR3	15W	(12VDC)	15V/1000mA		89/91	VRB1215YMD-20WR3	20W	(12000)	15V/1333mA	
VRB1224YMD-15WR3	15W		24V/625mA		89/91	VRB1224YMD-20WR3	20W		24V/833mA	
VRB2403YMD-15WR3	15W		3.3V/4000mA		86/88	VRB2403YMD-20WR3	20W		3.3V/5000mA	
VRB2405YMD-15WR3	15W		5V/3000mA		88/90	VRB2405YMD-20WR3	20W		5V/4000mA	
VRB2412YMD-15WR3	15W	18-36	12V/1250mA	1500	88/90	VRB2412YMD-20WR3	20W	18-36	12V/1667mA	1500
VRB2415YMD-15WR3	15W	(24VDC)	15V/1000mA		89/91	VRB2415YMD-20WR3	20W	(24VDC)	15V/1333mA	
VRB2424YMD-15WR3	15W		24V/625mA		89/91	VRB2424YMD-20WR3	20W		24V/833mA	
VRB4803YMD-15WR3	15W		3.3V/4000mA		86/88	VRB4803YMD-20WR3	20W		3.3V/5000mA	
VRB4805YMD-15WR3	15W		5V/3000mA		88/90	VRB4805YMD-20WR3	20W		5V/4000mA	
VRB4812YMD-15WR3	15W	36-75	12V/1250mA	1500	89/91	VRB4812YMD-20WR3	20W	36-75	12V/1667mA	1500
VRB4815YMD-15WR3	15W	(48VDC)	15V/1000mA		89/91	VRB4815YMD-20WR3	20W	(48VDC)	15V/1333mA	
VRB4824YMD-15WR3	15W		24V/625mA		89/91	VRB4824YMD-20WR3	20W		24V/833mA	

URA YMD-15WR3





Product Program					
Model Number Po		t Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)	
URA2405YMD-15WR3	15W		± 5V/ ± 1500mA		85/87
URA2412YMD-15WR3	15W	9-36	± 12V/ ± 625mA	1500	88/90
URA2415YMD-15WR3	15W	(24VDC)	± 15V/ ± 500mA	1500	88/90
URA2424YMD-15WR3	15W		± 24V/ ± 312mA		87/89
URA4805YMD-15WR3	15W		± 5V/ ± 1500mA		84/86
URA4812YMD-15WR3	15W	18-75	± 12V/ ± 625mA	4500	87/89
URA4815YMD-15WR3	15W	(48VDC)	± 15V/ ± 500mA	1500	87/89
URA4824YMD-15WR3	15W		± 24V/ ± 312mA		88/90

URB YMD-15WR3





					657632500
Product Program					
Model Number Po		t Voltage (VDC)	Output Voltage/Curren (Vo/Io)	t Isolation (VDC)	n Eff(%) (typ)
URB2403YMD-15WR3	15W		3.3V/4000mA		86/88
URB2405YMD-15WR3	15W		5V/3000mA		88/90
URB2412YMD-15WR3	15W	9-36 (24VDC)	12V/1250mA	1500	88/90
URB2415YMD-15WR3	15W	(24100)	15V/1000mA		89/91
URB2424YMD-15WR3	15W		24V/625mA		89/91
URB4803YMD-15WR3	15W		3.3V/4000mA		86/88
URB4805YMD-15WR3	15W		5V/3000mA		88/90
URB4812YMD-15WR3	15W	18-75 (48VDC)	12V/1250mA	1500	89/91
URB4815YMD-15WR3	15W	(40100)	15V/1000mA		89/91
URB4824YMD-15WR3	15W		24V/625mA		89/91

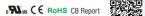
URA YMD-20WR3





Product Program					
Model Number P		out Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
URA2405YMD-20WR3	20W		± 5V/ ± 2000mA		85/87
URA2412YMD-20WR3	20W	9-36	± 12V/ ± 833mA	4500	88/90
URA2415YMD-20WR3	20W	(24VDC)	± 15V/ ± 667mA	1500	88/90
URA2424YMD-20WR3	20W		± 24V/ ± 417mA		87/89
URA4805YMD-20WR3	20W		± 5V/ ± 2000mA		84/86
URA4812YMD-20WR3	20W	18-75	± 12V/ ± 833mA	4500	88/90
URA4815YMD-20WR3	20W	(48VDC)	± 15V/ ± 667mA	1500	88/90
URA4824YMD-20WR3	20W		± 24V/ ± 417mA		88/90

URB YMD-20WR3





Product Program					03829
Model Number P		t Voltage (VDC)	Output Voltage/Curren (Vo/Io)	t Isolatio (VDC)	
URB2403YMD-20WR3	20W		3.3V/5000mA		86/88
URB2405YMD-20WR3	20W		5V/4000mA		88/90
URB2406YMD-20WR3	20W	9-36	6V/3333mA		87/89
URB2412YMD-20WR3	20W	(24VDC)	12V/1667mA	1500	88/90
URB2415YMD-20WR3	20W		15V/1333mA		89/91
URB2424YMD-20WR3	20W		24V/833mA		89/91
URB4803YMD-20WR3	20W		3.3V/5000mA		86/88
URB4805YMD-20WR3	20W	40.75	5V/4000mA		88/90
URB4812YMD-20WR3	20W	18-75 (48VDC)	12V/1667mA	1500	89/91
URB4815YMD-20WR3	20W	(10700)	15V/1333mA		89/91
URB4824YMD-20WR3	20W		24V/833mA		89/91

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

URA YMD-30WR3

URA4812YMD-30WR3

URA4815YMD-30WR3

URA4824YMD-30WR3

Pin Single Dual

4 + V0 + V0

5 Trim OV

Ctrl Ctrl

GND GND

Vin Vin

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004]

(€ RoHS 1856)

	ut Voltage VDC)	t I solatio (VDC)	. ,	
30W 30W 30W	18-75 (48VDC)	± 12V/ ± 1250mA ± 15V/ ± 1000mA ± 24V/ ± 625mA	1500	86/88 86/88 86/88

- 1. Series with suffix "YMD" are 1*1 packaged with aluminum alloy casing. And for detailed dimension please refer to the illustration.
- 2. Use "A2S" suffix for chassis mounting and "A4S" suffix for DIN-Rail mounting.

- 3. The A2S and A4S Model's start-up and minimum input voltages are increased by 1VDC due to the input reverse polarity protection circuit.
- 4 Products marked with "*" features no Ctrl function

Package Dimension

5 0810 200

7.62[0.300]

5. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as FC-AX3D,

URB YMD-15WR3/20WR3, URA/B YMD-15WR3/20WR3

Series: LxWxH: $25.40 \times 25.40 \times 11.70$ (mm)

Ø 1 00(0 039)

20.32[0.800]

25 40[1 000]

FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales.

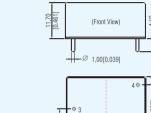
URB YMD-30WR3



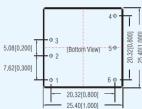
Product Program					间板缝形
Model Number F	ower Inpu	it Voltage (VDC)	Output Voltage/Curren (Vo/lo)	it I solatioi (VDC)	n Eff(%) (typ)
URB4805YMD-30WR3 URB4812YMD-30WR3 URB4815YMD-30WR3 URB4824YMD-30WR3	30W 30W 30W 30W	18-75 (48VDC)	5V/6000mA 12V/2500mA 15V/2000mA 24V/1250mA	1500	86/88 86/88 86/88 86/88

2 URA/B YMD-30WR3

Series: LxWxH: $25.40 \times 25.40 \times 11.70$ (mm)



Pin-Out	
Pin	Function
1	Ctrl
2	GND
3	Vin
4	+V0
5	Trim
6	OV

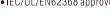


Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020]

Features:

- Suitable for industrial control, electric power, instrumentation, communication applications
- Operating temperature: -40° C to $+85^{\circ}$ C
- No-load power consumption as low as 0.11W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- Meet CISPR22/FN55022 CLASS A
- International standard pin-out
- IEC/UL/EN62368 approved





URE LP-10WR3





Model Number		out Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
URE2405LP-10WR3	10W	0.00	± 5V/ ± 1000mA		79/81
URE2412LP-10WR3	10W	9-36 (24VDC)	± 12V/ ± 416mA	3000	83/85
URE2415LP-10WR3	10W	(24100)	± 15V/ ± 333mA		85/87
URE4805LP-10WR3	10W		± 5V/ ± 1000mA		80/82
URE4812LP-10WR3	10W	18-75 (48VDC)	± 12V/ ± 416mA	3000	84/86
URE4815LP-10WR3	10W	(40000)	± 15V/ ± 333mA		85/87

URF LP-20WR3

c¶ C€ RoHS CB Report



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Model Number		out Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
URF2403LP-20WR3	20W		3.3V/5000mA		84/86
URF2405LP-20WR3	20W		5V/4000mA		87/89
URF2409LP-20WR3	20W		9V/2222mA		86/88
URF2412LP-20WR3	20W	9-36	12V/1667mA	3000	86/88
URF2415LP-20WR3	20W	(24VDC)	15V/1334mA	0000	87/89
URF2418LP-20WR3	20W		18V/1111mA		87/89
URF2424LP-20WR3	20W		24V/833mA		87/89
URF4803LP-20WR3	20W		3.3V/5000mA		84/86
URF4805LP-20WR3	20W	40.75	5V/4000mA		86/88
URF4812LP-20WR3	20W	18-75 (48VDC)	12V/1667mA	3000	86/88
URF4815LP-20WR3	20W	(10400)	15V/1334mA		87/89
URF4824LP-20WR3	20W		24V/833mA		87/89

URF LP-10WR3

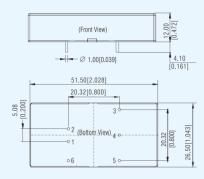
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g. a.					
Model Number		ıt Voltage VDC)	Output Voltage/Currer (Vo/lo)	nt Isolatio (VDC)	. ,
URF2403LP-10WR3	10W		3.3V/2400mA		76/78
URF2405LP-10WR3	10W		5V/2000mA		80/82
URF2409LP-10WR3	10W	9-36	9V/1111mA		82/84
URF2412LP-10WR3	10W	(24VDC)	12V/833mA	3000	82/84
URF2415LP-10WR3	10W		15V/667mA		85/87
URF2424LP-10WR3	10W		24V/416mA		84/86
URF4803LP-10WR3	10W		3.3V/2400mA		77/79
URF4805LP-10WR3	10W	40.75	5V/2000mA		80/82
URF4812LP-10WR3	10W	18-75 (48VDC)	12V/833mA	3000	84/86
URF4815LP-10WR3	10W	(10100)	15V/667mA		85/87
URF4824LP-10WR3	10W		24V/416mA		85/87

- 1. Series with suffix "LP" are 2*1 packaged with plastic casing. And for detailed dimension please refer to the illustration.
- 2. Use "A2S" suffix for chassis mounting and "A4S" suffix for DIN-Rail mounting.
- 3. The A2S and A4S Model's start-up and minimum input voltages are increased by 1VDC due to the input reverse polarity protection circuit.
- 4. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as EC-AX3D, EC-B02D, EI-B03D and ET-BX1D are available. For more information. please contact our sales.

1 URE/F LP-10WR3, URF LP-20WR3 Series: LxWxH: $51.50 \times 26.50 \times 12.00$ (mm)



Pin-Out

-				
	Pin	URE_LP-10WR3	URF_LP-20WR3	URF_LP-10WR3
	1	GND	GND	GND
Ī	2	Vin	Vin	Vin
Ξ	3	+ Vo	+V0	+V0
	4	0V	Trim	No Pin
	5	-Vo	0V	0V
	6	Ctrl	Ctrl	Ctrl

Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020]

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

Features:

- 4:1 wide input voltage range
- Dual isolated outputs
- Operating temperature: -40° C to $+85^{\circ}$ C / -40° C to $+105^{\circ}$ C
- Input under-voltage, output short-circuit, over-current protection



5/5V

5/12V

5/24V

URD48_	YMD-1	10WR3
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Model Number Power Input Voltage (VDC) Output Voltage (Vol. → Vol. → V					DOM: SERVE		
URD480512YMD-10WR3 10W 18-75 (48VDC) 5/12V 1000/417mA 1500 82/84	Model Number Por	wer Inpu	it Voltage VDC)				. ,
	URD480512YMD-10WR3	10W		5/12V	1000/417mA	1500	82/84

BONUM/B

roduct Program							
Model Number F	ower I n	put Voltage (VDC)	Output Volta (Vo/		solation VAC)	Eff(%) (typ)	
RD480524D-30WR3 30W		18-75 (48VDC)	5/24V	4000/417mA	3000	82/84	

URD LD-20WR3

URD480505I D-20WR3 20W

URD480512I D-20WR3

URD480524LD-20WR3

Model Number Power (VDC) (Vo/Io)

(48VDC

20W

(E	RoH	3
•	`	NOIN	ú

2000/417mA

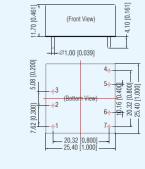
(KOHS :	
	Isolation (VDC)	Eff(%) (typ)
2000/2000mA		82/84
2000/833mA	1500	82/84

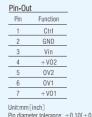
82/84

URD_D-30	WR	3		(€	RoHS	
Product Program					Ē	
Model Number	ower In	put Voltage (VDC)	Output Volta (Vo/		solation VAC)	Eff(%) (typ)
I IDD 480534D 30WD3	30W	18-75	5/2/\/	4000/417mA	2000	02/04

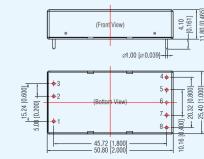
Package Dimension

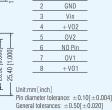
URD-YMD-10WR3 Series: LxWxH: 25.40x25.40x11.70(mm)
URD-LD-20WR3 Series: LxWxH: 50.80x25.40x11.80(mm)









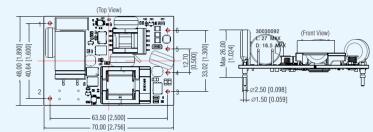


Pin-Out

Pin Function

Ctrl

3 URD480524LD-30WR3 Series: LxWxH: 70.00x48.00x26.00(mm)



Pin-Out	
Pin	Function
1	Vin
2	GND
3	Vo1+
4	Vo1-
_ 5	Vo2-
6	Vo2+

Pin diameter tolerance: ±0.10[±0.004] General tolerances: +0.50(+0.020) Please do not use fan power other devices

Wide Input Voltage 15-40W DIP Package, Isolated & Regulated Output Series

Features:

- Suitable for DCS, battery-powered device, communication, distributed power system, D/A hybrid system, RTU and industrial robot system applications
- Operating temperature: -40° C to $+85^{\circ}$ C $/-40^{\circ}$ C to $+105^{\circ}$ C
- No-load power consumption as low as 0.12W
- Input under-voltage, output over-voltage, over-current, short-circuit protection
- International standard pin-out
- IEC/UL/EN/60950, EN62368 approved









A2S Chassis Mounting

A4S DIN-Rail Mounting

VRB LD-15WR3

c¶Nus C € RoHS CB Report



84/86

84/86

86/88

87/89

1500

roduct Program						
Model Number		out Voltage (VDC)	Output Voltage/Curren	t I solatio (VDC)	. ,	
/RB2405LD-15WR3	15W		5V/3000mA		87/89	
/RB2412LD-15WR3	15W	18-36	12V/1250mA		87/89	
/RB2415LD-15WR3	15W	(24VDC)	15V/1000mA	1500	87/89	
/RB2424LD-15WR3	15W		24V/625mA		88/90	
/RB4803LD-15WR3	15W		3.3V/4000mA		81/83	
RB4805LD-15WR3	15W		5V/3000mA		86/88	
/RB4812LD-15WR3	15W	36-75	12V/1250mA	1500	86/88	
/RB4815LD-15WR3	15W	(48VDC)	15V/1000mA		87/89	
/RB4824LD-15WR3	15W		24V/625mA		87/89	

VIID TOL TED TOVVITO	1011		214/02011/1	
VRA_LD-2	0WR	3		C€ RoH

(48VDC)

<u>-</u>			•		14.00
Product Progran					
Model Number	Power Inp	out Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VRA1215LD-20WR3	20W	9-18	± 15V/ ± 667mA	4500	85/87
VRA1224LD-20WR3	20W	(12VDC)	± 24V/ ± 417mA	1500	86/88
VRA2405LD-20WR3	20W		± 5V/ ± 2000mA		82/84
VRA2409LD-20WR3	20W		±9V/±1111mA		84/86
VRA2412LD-20WR3	20W	18-36 (24VDC)	± 12V/ ± 834mA	1500	84/86
VRA2415LD-20WR3	20W	(24106)	± 15V/ ± 667mA		84/86

VRR	ID-20WR3	

VRA2424LD-20WR3 20W

VRA4805LD-20WR3 20W

VRA4812LD-20WR3 20W

VRA4815LD-20WR3 20W



± 24V/ ± 417mA

± 5V/ ± 2000mA

± 12V/ ± 834mA

 $\pm 15V/ \pm 667mA$

Product Progran					
Model Number	Power Inp	out Voltage (VDC)	Output Voltage/Current (Vo/lo)	Isolation (VDC)	Eff(%) (typ)
VRB121DLD-20WR3	20W	9-18 (12VDC)	110V/182mA	1500	86/88
VRB2403LD-20WR3	20W		3.3V/5000mA		84/86
VRB2405LD-20WR3	20W	18-36 (24VDC)	5V/4000mA		88/90
VRB2409LD-20WR3	20W		9V/2222mA	1500	85/87
VRB2412LD-20WR3	20W		12V/1667mA	1300	85/87
VRB2415LD-20WR3	20W		15V/1333mA		86/88
VRB2424LD-20WR3	20W		24V/834mA		86/88
VRB4803LD-20WR3	20W		3.3V/5000mA		84/86
VRB4805LD-20WR3	20W		5V/4000mA		88/90
VRB4809LD-20WR3	20W	36-75	9V/2222mA	1500	87/89
VRB4812LD-20WR3	20W	(48VDC)	12V/1667mA	1500	87/89
VRB4815LD-20WR3	20W		15V/1333mA		88/90
VRB4824LD-20WR3	20W		24V/834mA		88/90

URA LD-20WR3

c¶Nus C € RoHS CB Report



Product Program					回数级要数
Model Number		t Voltage (/DC)	Output Voltage/Curren (Vo/lo)	t I solation (VDC)	
URA2405LD-20WR3	20W		± 5V/ ± 2000mA		84/86
URA2409LD-20WR3	20W	9-36	±9V/±1111mA	4500	86/88
URA2412LD-20WR3	20W	(24VDC)	± 12V/ ± 834mA	1500	86/88
URA2415LD-20WR3	20W		± 15V/ ± 667mA		86/88
URA4805LD-20WR3	20W		± 5V/ ± 2000mA		84/86
URA4815LD-20WR3	20W	18-75 (48VDC)	± 12V/ ± 834mA	1500	86/88
URA4824LD-20WR3	20W	(10100)	± 15V/ ± 667mA		87/89

URB LD-20WR3

c¶ (€ RoHS CB Report



Product Program					
Model Number		t Voltage /DC)	Output Voltage/Curren (Vo/Io)	t I solatio (VDC)	
URB2403LD-20WR3	20W		3.3V/5000mA		84/86
URB2405LD-20WR3	20W		5V/4000mA		86/88
URB2409LD-20WR3	20W	9-36	9V/2222mA		87/89
URB2412LD-20WR3	20W	(24VDC)	12V/1667mA	1500	87/89
URB2415LD-20WR3	20W		15V/1333mA		88/90
URB2424LD-20WR3	20W		24V/834mA		88/90
URB4803LD-20WR3	20W		3.3V/5000mA		84/86
URB4805LD-20WR3	20W		5V/4000mA		84/86
URB4809LD-20WR3	20W	18-75	9V/2222mA	1500	87/89
URB4812LD-20WR3	20W	(48VDC)	12V/1667mA	1500	85/87
URB4815LD-20WR3	20W		15V/1333mA		88/90
URB4824LD-20WR3	20W		24V/834mA		86/88

VRB LD-30WR3



AIID_FD-0		C KOHS	300				
Product Program							
Model Number F		t Voltage (/DC)	Output Voltage/Curren (Vo/Io)	t Isolation (VDC)	()		
VRB2403LD-30WR3	30W		3.3V/6000mA		83/85		
VRB2405LD-30WR3	30W	18-36 (24VDC)	5V/6000mA		86/88		
VRB2409LD-30WR3	30W		9V/3333mA		84/86		
VRB2412LD-30WR3	30W		12V/2500mA	1500	86/88		
VRB2415LD-30WR3	30W		15V/2000mA		88/90		
VRB2424LD-30WR3	30W		24V/1250mA		88/90		
VRB4803LD-30WR3	30W		3.3V/6000mA		84/86		
VRB4805LD-30WR3	30W	00.75	5V/6000mA		86/88		
VRB4812LD-30WR3	30W	36-75 (48VDC)	12V/2500mA	1500	86/88		
VRB4815LD-30WR3	30W	(10700)	15V/2000mA		87/89		
VRB4824LD-30WR3	30W		24V/1250mA		87/89		

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URA LD-30WR3



roduct Progran					回時課代
Model Number		it Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solation (VDC)	n Eff(%) (typ)
JRA2405LD-30WR3	30W		± 5V/ ± 3000mA		84/86
JRA2412LD-30WR3	30W	9-36 (24VDC)	± 12V/ ± 1250mA	4500	87/89
JRA2415LD-30WR3	30W		± 15V/ ± 1000mA	1500	87/89
JRA2424LD-30WR3	30W		± 24V/ ± 625mA		87/89
JRA4805LD-30WR3	30W	10.75	± 5V/ ± 3000mA		84/86
JRA4812LD-30WR3	30W	18-75 (48VDC)	± 12V/ ± 1250mA	1500	86/88
JRA4815LD-30WR3	30W	(11700)	± 15V/ ± 1000mA		86/88
		-	-		

VRB LD-40WHR3



Model Number Po		t Voltage (VDC)	Output Voltage/Current (Vo/Io)	Isolation (VDC)	Eff(%) (typ)
VRB2405LD-40W(H)R3 VRB2412LD-40W(H)R3	40W 40W	40.00	5V/8000mA 12V/3333mA		86/88 88/90
VRB2415LD-40W(H)R3	40W	18-36 (24VDC)	15V/2667mA	1500	90/91 90/91
VRB2424LD-40W(H)R3 VRB4812LD-40W(H)R3	40W 40W		24V/1667mA 12V/3333mA		88/90
VRB4815LD-40W(H)R3 VRB4824LD-40W(H)R3	40W 40W	36-75 (48VDC)	15V/2667mA 24V/1667mA	1500	90/91 90/91

URB LD-30WR3

c¶Sus (€ RoHS CB Report

Product Progran					
Model Number		t Voltage VDC)			n Eff(%) (typ)
URB2403LD-30WR3	30W		3.3V/6000mA		83/85
URB2405LD-30WR3	30W		5V/6000mA		84/86
URB2409LD-30WR3	30W	9-36	9V/3333mA		86/88
URB2412LD-30WR3	30W	(24VDC)	12V/2500mA	1500	88/90
URB2415LD-30WR3	30W		15V/2000mA		88/90
URB2424LD-30WR3	30W		24V/1250mA		88/90
URB4803LD-30WR3	30W		3.3V/6000mA		84/86
URB4805LD-30WR3	30W	10.75	5V/6000mA		85/87
URB4812LD-30WR3	30W	18-75 (48VDC)	12V/2500mA	1500	86/88
URB4815LD-30WR3	30W	(10100)	15V/2000mA		87/89
URB4824LD-30WR3	30W		24V/1250mA		85/87

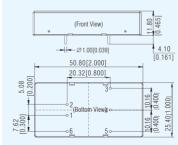
1 Use "H" suffix for heat sink mounting "A2S" suffix for chassis mounting and "A4S" suffix for DIN-Rail mounting. And for detailed dimension please contact our sales or refer to the datasheet. These extended series feature input reverse polarity protection. 2. Series with suffix "LD" are 2*1 packaged with aluminum alloy casing. And for detailed dimension please refer to the illustration.

3. If the application requires higher performance for EMC, our matching EMC auxiliary devices such as FC-AX3D, FC-B02D, FI-B03D and FT-BX1D are available. For more information, please contact our sales.

2 VRB LD-30WR3 Series: LxWxH: 50.80 × 25.40 × 11.80(mm)

Package Dimension

1 VRB LD-15WR3 Series: LxWxH: 50.80 × 25.40 × 11.80(mm)



Pin	Single	Dual
1	GND	GND
2	Vin	Vin
3	$+V_0$	+V0
4	Trim	0V
5	0V	-Vo
6	Ctrl	Ctrl

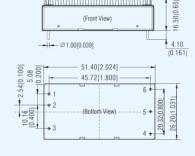
Pin diameter tolerance: ±0.10[±0.004]

(Front View) [90]	F
	-
→ → Ø1.00[0.039] <u>4.10</u> [0.161]	-
50 0010 0003	-
50.80[2.000]	-
60	_

Pin	Single	Dual
1	Vin	Vin
2	GND	GND
3	Ctrl	Ctrl
4	Trim	-V0
5	0V	0V
6	+V0	+ Vo

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004]

3 VRB LD-40WHR3 Series: LxWxH: 51.40 × 26.20 × 16.50(mm)



Pin	Function
1	Vin
2	GND
3	Ctrl
4	Trim
5	0V
6	+V0

General tolerances: $\pm 0.50[\pm 0.020]$

Ultra-wide Input Voltage 1-3W

Isolated & Regulated Output Series

Features:

- Wide input voltage range (2:1 / 4:1)
- Efficiency up to 94%
- Isolation voltage 2250VDC
- Input under-voltage, output over-voltage, over-current, short-circuit, over-temperature protection
- Operating temperature: -40°C to +85°C
- Five-sided metal shielding package
- International standard 1/4 brick
- EN62368 approved

URF QB-75WR3



Product Program		回数图数数			
Model Number I	ower Inpu	t Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)	
URF4805QB-75WR3	75W		5V/15000mA		89/91
URF4812QB-75WR3	75W	18-75 (48VDC)	12V/6250mA		90/92
URF4815QB-75WR3	75W		15V/5000mA	2250	91/93
URF4824QB-75WR3	75W		24V/3125mA		90/92
URF4848QB-75WR3	75W		48V/1563mA		90/92

URF QB-100WR3



90/92

riouuctriogiaiii				ELECTRICAL SERVICE	E19-46-2 255-5
Model Number Po	ower (t Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solation (VDC)	
URF2405QB-100WR3	100W		5V/20000mA		87/89
URF2412QB-100WR3	100W	9-36 (24VDC)	12V/8300mA		88/90
URF2415QB-100WR3	100W		15V/6700mA		88/90
URF2424QB-100WR3	100W		24V/4200mA	2250	88/90
URF2428QB-100WR3	100W		28V/3600mA		88/90
URF2448QB-100WR3	100W		48V/2100mA		88/90
URF4803QB-100WR3	100W		3.3V/22700mA		86/88
URF4805QB-100WR3	100W		5V/20000mA		89/91
URF4812QB-100WR3	100W	18-75 (48VDC)	12V/8300mA		90/92
URF4815QB-100WR3	100W		15V/6700mA	2250	91/93
URF4824QB-100WR3	100W	,	24V/4200mA		90/92

48V/2100mA

1. Use "F" suffix for products with aluminum base. "H" suffix for heat sink mounting. We recommend choosing modules with a heat sink for applications that require high requirements for temperature.

2. "A5": Chassis Mounting

3. "A6": DIN-Rail Mounting



"F" Package with aluminum base

"A5" Chassis Mounting

URF QB-150WR3



Product Program					宣經發展的
Model Number P	ower (t Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solatio (VDC)	
URF4805QB-150WR3	150W		5V/30000mA		86/88
URF4812QB-150WR3	150W		12V/12500mA		89/91
URF4815QB-150WR3	150W	18-75 (48VDC)	15V/10000mA	2250	87/89
URF4824QB-150WR3	150W	(48VDC)	24V/6250mA		89/91
URF4848QB-150WR3	150W		48V/3130mA		89/91

URF QB-200WR3



Product Program								
Model Number Po	ower Inpu	t Voltage VDC)	Output Voltage/Curren (Vo/Io)	t Isolatio (VDC)				
URF4805QB-200WR3	200W		5V/40000mA		86/88			
URF4812QB-200WR3	200W		12V/16700mA	2250	89/91			
URF4815QB-200WR3	200W	18-75 (48VDC)	15V/13300mA		87/89			
URF4824QB-200WR3	200W	(40VDC)	24V/8400mA		89/91			
URF4848QB-200WR3	200W		48V/4200mA		89/91			

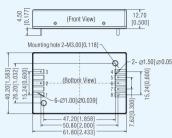
VRB HB-350WR3



Product Program					
Model Number P		it Voltage VDC)	Output Voltage/Curren (Vo/Io)	t Isolatio (VDC)	
VRB2412HB-350WR3 VRB2424HB-350WR3 VRB2428HB-350WR3 VRB2432HB-350WR3	288W 350W 350W 350W	20-36 (24VDC)	12V/24A 24V/14.5A 28V/12.5A 32V/11A	1500	83/86 85/87 87/89 87/89

URF4848QB-100WR3 100W

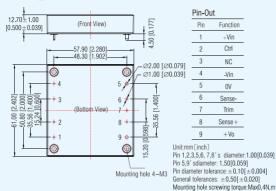
1 URF QB-75WR3/URF QB-150WR3/URF QB-100WR3 /URF QB-200WR3 Series: LxWxH: 61.80x40.20x12.70(mm)



Pin-C)ut		
Pin	Function	Pin	Function
1	+Vin	5	Sense-
2	Ctrl	6	Trim
3	-Vin	7	Sense+
4	0V	8	+Vo
	Pin 1 2	1 +Vin 2 Ctrl	Pin Function Pin 1 +Vin 5 2 Ctrl 6

Pin 1,2,3,5,6, 7's diameter:1.00[0.039] Pin 4.8' sdiameter: 1.50[0.059] Pin diameter tolerance: ±0.10[±0.004]
General tolerances: ±0.50[±0.020] Mounting hole screwing torque:Max0.4N.m

2 VRB HB-350WR3 Series: LxWxH: 61.0 × 57.9 × 12.7(mm)



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Features:

- Widely used in medical, industrial control, electric power, instrumentation, communication applications
- Ultra-wide input voltage range (8:1)
- Efficiency up to 74%
- No-load power consumption as low as 0.12W
- Isolation voltage 3000VDC
- Operating temperature: -40°C to +105°C
- Input under-voltage, output short-circuit, over-current protection
- International standard pin-out
- EN62368 approved

UWE_S-1WR3 C€ RoHS						
Product Progran	n					
Model Number	Power Inpu	t Voltage VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)		
UWE1205S-1WR3	1W	4 5 00	± 5V/ ± 100mA		69/71	
UWE1212S-1WR3	1W	4.5-36 (12VDC)	± 12V/ ± 42mA	3000	72/74	
UWE1215S-1WR3	1W	, ,	± 15V/ ± 33mA		72/74	

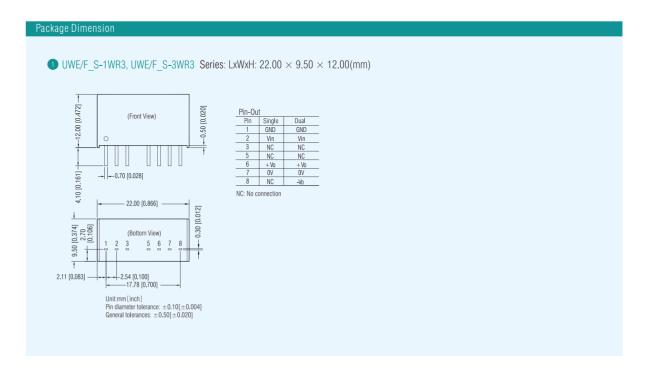
UWE_S-3		C€ RoHS			
Product Program					
Model Number	Power Inpu	it Voltage VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VDC)	
UWE1205S-3WR3	3W	4.5.00	± 5V/ ± 300mA		75/77
UWE1212S-3WR3	3W	4.5-36 (12VDC)	± 12V/ ± 125mA	3000	77/79
UWE1215S-3WR3	3W	,,	± 15V/ ± 100mA		77/79





UWF_S-1\	NR3			C€ RoHS	
Product Progran	n				
Model Number	Power Inpu	it Voltage VDC)	Output Voltage/Curren (Vo/lo)	t I solatio (VDC)	
UWF1205S-1WR3	1W		5V/200mA		69/71
UWF1209S-1WR3	1W	4.5-36	9V/111mA	3000	69/72
UWF1212S-1WR3	1W	(12VDC)	12V/83mA	3000	72/74
UWF1215S-1WR3	1W		15V/67mA		72/74

UWF_S-3\ Product Program				C€ RoHS	
Model Number	Power Inpu	t Voltage VDC)	Output Voltage/Curren (Vo/lo)	t I solatio (VDC)	()
UWF1205S-3WR3	3W	4 E 26	5V/600mA		75/77
UWF1212S-3WR3	3W	4.5-36 (12VDC)	12V/250mA	3000	77/79
UWF1215S-3WR3	3W	, ,	15V/200mA		77/79



Features

- Suitable for medical, security and some special equipment industry such as ultrasonic flaw detector, photomultiplier tubes, piezoelectric devices, capacitor charging, etc.
- Utra-wide output voltage range: 0-2000VDC
- Input under-voltage, output short-circuit, over-voltage protection

High Voltage 0.625-40W Fixed Input Voltage, Non-isolated & Regulated High Voltage Output Series

- Low ripple. low power consumption
- Constant current output

HO1-P(N) Product Progra					
		Input Voltage (VDC)	Output Volta	age (VDC)	
Model Number	Power	Nominal (Range)	Max.	Range	Output Current (mA)
H01-P1251V-0.5C	0.625W	10.8-13.2	+1250	0 to +1250	0.5/0
H01-N1251V-0.5C	0.625W	(12VDC)	- 1250	0 to - 1250	0.5/0
H01-P1251V-0.5F	0.625W	21.6-26.4	+1250	0 to +1250	0.5/0
H01-N1251V-0.5F	0.625W	(24VDC)	– 1250	0 to - 1250	0.5/0

	H01-P(N	I)12	51H-1B		C€ RoHS	
	Product Prog	ram				
			Input Voltage (VDC)	Output Voltage (VDC)		Output Current
	Model Number	Power	Nominal (Range)	Max.	Range	(mA)
	H01-P1251H-1B		4.75-5.25 (5VDC)	+1250	0 to +1250	1/0

H01-P(N)1501H-0.5C(D) ROHS							
Product Progra					新教養		
		Input Voltage (VDC)	Output Volta		Output Current		
Model Number	Power	Nominal (Range)	Max.	Range	(mA)		
H01-P1501H-0.5C	0.75W	10.8-13.2	+1500	0 to +1500	0.5/0		
H01-N1501H-0.5C	0.75W	(12VDC)	– 1500	0 to - 1500	0.5/0		
H01-P1501H-0.5D	0.75W	13.5-16.5	+1500	0 to +1500	0.5/0		
H01-N1501H-0.5D	0.75W	(15VDC)	- 1500	0 to - 1500	0.5/0		

H01-P401V Product Program	-5C		RoHS	
	Input Voltage (VDC)	Output Voltage (VDC)		
Model Number Power	Nominal (Range)	Max.	Range	Output Current (mA)
H01-P401V-5C 2W	10.8-13.2 (12VDC)	+400	0 to +400	5/0

H01-P102-3	RoHS			
Product Program				
	Input Voltage (VDC)	Output Voltage (VDC)		
Model Number Power	Nominal (Range)	Max.	Range	Output Current (mA)
H01-P102-30F 30W	21.6-26.4 (24VDC)	+1000	0 to +1000	30/0
	, and the second	, and the second second		EINDWEI

	(24100)			
H01-P202-	20D		RoHS	
Product Program				回線膨脹
· ·	Input Voltage (VDC)	Output Voltag	e (VDC)	
Model Number Power	Nominal (Range)	Max.	Range	Output Currer (mA)
H01-P202-20D 40W	14-18 (16VDC)	+2000	0 to +2000	20

Note: Customization for different input voltage, output voltage and power range is acceptable.



H01-P(N)1251S-0.5C ROHS						
Product Program						
Model Number Power	Input Voltage (VDC) Nominal (Range)	Output Volt Max.	age (VDC) Range	Output Current (mA)		
H01-P1251S-0.5C H01-N1251S-0.5C	10.8-13.2 (12VDC)	1250 -1250	0 to +1250 0 to - 1250	0.5		

H01-P(N	1)120	01-0.6B		RoHS	
Product Prog	ram				
		Input Voltage (VDC)	Output Vol	tage (VDC)	Dutput Curren
Model Number	Power	Nominal (Range)	Max.	Range	(mA)
H01-P1201-0.6B	0.72W	10.8-13.2	+1200	0 to +1200	0.070
H01-N1201-0.6B	0.72W	(12VDC)	-1200	0 to -1200	0.6/0

H01-P(N)1251	H01-P(N)1251H-0.5C(D/F) ROHS							
Product Program								
	Input Voltage (VDC)	Output Volt	age (VDC)	Output Current				
Model Number Power	Nominal (Range)	Max.	Range	(mA)				
H01-P1251H-0.5C 0.75W	10.8-13.2	+1250	0 to +1250	0.5/0				
H01-N1251H-0.5C 0.75W	(12VDC)	-1250	0 to - 1250	0.3/0				
H01-P1251H-0.5D 0.75W	13.5-16.5	+1250	0 to +1250	0.5/0				
H01-N1251H-0.5D 0.75W	(15VDC)	- 1250	0 to - 1250	0.5/0				
H01-P1251H-0.5F 0.75W	21.6-26.4	+1250	0 to +1250	0.5/0				
H01-N1251H-0.5F 0.75W	(24VDC)	-1250	0 to - 1250	0.5/0				

H01-P601-2	H01-P601-2C					
Product Program						
	Input Voltage (VDC)	Output Voltag	e (VDC)	0		
Model Number Power	Nominal (Range)	Max.	Range	Output Current (mA)		
H01-P601-2C 1.2W	10.8-13.2 (12VDC)	+600	0 to +600	2/0		

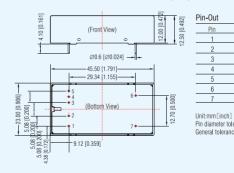
H01-P102-	10F		RoHS	
Product Program				
	Input Voltage (VDC)	Output Voltag	e (VDC)	
Model Number Power	Nominal (Range)	Max.	Range	Output Current (mA)
H01-P102-10F 10W	21.6-26.4 (24VDC)	+1000	0 to +1000	10/0

H01-P102-2	20D		RoHS	
Product Program				高級類
	Input Voltage (VDC)	Output Voltag	e (VDC)	
Model Number Power	Nominal (Range)	Max.	Range	Output Current (mA)
H01-P102-20D 40W	14-18 (16VDC)	+1000	0 to +1000	20

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Package Dimension

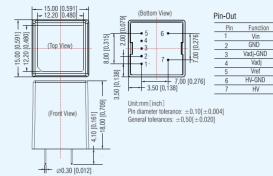
1 H01-P(N)1251V-0.5C(F)/H01-P(N)1251H-0.5C(D/F) Series: LxWxH: 45.50 x 23.00 x 12.50(mm)



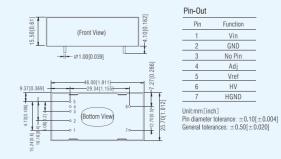
12 NO IO 4721-Unit:mm [inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$ (Front View) ⊥Vin GND No Pin Δdi 3.03 [0.119] -0.50 [0.020] -11.50 [0.453] -1 50 f0 0591 Vref -23.00 [0.906]-HV GND Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: ±0.50[±0.020]

2 H01-P(N)1251S-0.5C Series: LxWxH: 45.50 x 12.00 x 24.50(mm)

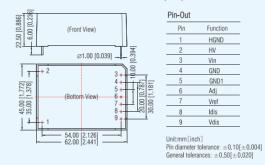
3 HO1-P(N)1201-0.6B Series: LxWxH: 15.00 x 15.00 x 18.00(mm)



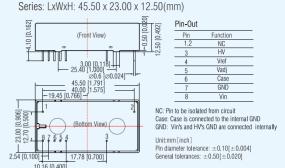
5 H01-P601-2C Series: LxWxH: 46.00 x 25.70 x 15.50(mm)



7 H01-P102-10F/H01-P102-30F Series: LxWxH: $62.00 \times 45.00 \times 22.50$ (mm)

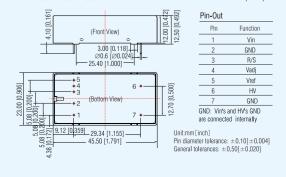


4 H01-P(N)1251H-1BH01-P(N)1501H-0.5C(D)

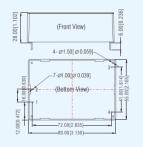


GND: Vin's and HV's GND are connected internally

6 H01-P401V-5C Series: LxWxH: 45.50 x 23.00 x 12.50(mm)



8 H01-P102-20D/H01-P202-20D Series: LxWxH: $80.00 \times 55.00 \times 28.00$ (mm)



GND H.V. HGND

Pin diameter tolerance: ±0.10[±0.004] General tolerances: $\pm 0.501 \pm 0.0201$

- Ultra-wide input voltage range: 100-1200VDC
- Operating temperature: -40°C to +70°C
- Isolation voltage 4000VAC / 4000VDC (PV40-27B)
- Efficiency up to 85%
- Input reverse voltage, over-voltage, output short-circuit protection
- EN62109 approved
- Optional package: chassis mounting, DIN-Rail mounting
- High reliability, long lifespan, 3 years warranty



PV05/10		7BxxR2	2	C€ RoHS	
Product Progr	am				自然不要
Model Number	t I solatio (VAC)				
PV05-27B05R2	5W	100-1000	5V/1000mA	4000	72
PV10-27B05R2	10W	100-1000	5V/2000mA	4000	72
PV10-27B09R2	10W	100-1000	9V/1110mA	4000	76
PV10-27B24R2	10W	100-1000	24V/420mA	4000	80
PV15-27B12R2	15W	100-1000	12V/1250mA	4000	77
PV15-27B15R2	15W	100-1000	15V/1000mA	4000	78
PV15-27B24R2	15W	100-1000	24V/625mA	4000	80

- 1. Chassis mounting series: with the suffix "A2C"
- 2. DIN-Rail mounting series: with the suffix "A4C"
- 3. Series with "A2C" / "A4C" packages are CE certified.

PV40-27E				RoHS	
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current	t Isolation	Eff(%) (typ)
PV40-27B12	40W		12V/3330mA		83
PV40-27B15	40W	200-1200	15V/2670mA	4000	84
PV40-27B24	40W		24V/1670mA		84
Noto:					

- 1. Chassis mounting series: with the suffix "A5".
- 2. DIN-Rail mounting series: with the suffix "A6".

PV10-27	C			RoHS					
Product Progr	Product Program								
Model Number	Power	nput Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio (VAC)					
PV10-27C050524	10W	200-1200	5V/1000mA 5V/400mA 24V/100mA	4000	72				

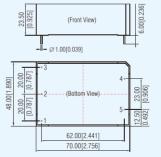
	RoHS		PV60-27)			RoHS		
			Product Progra						į
n	t Isolation (VAC)		Model Number	Power	nput Voltage (VDC)	Output Voltage/Curren (Vo/Io)	t I solatior (VAC)	n Eff(%) (typ)	
	4000	72	PV60-27D1215-13	60W	200-1100	12V/3000mA 15V/1330mA	4000	85	
									Ī

PV120-27B RoHS										
Product Prog	ram				回線微視的					
Model Number	Power	nput Voltage (VDC)	Output Voltage/Current (Vo/lo)	lsolation (VAC)	eff(%) (typ)					
PV120-27B12	90W	200-1100	12V/7.550A	4000	84					
PV120-27B15	100W	200-1100	15V/6.670A	4000	85					
PV120-27B24	120W	200-1100	24V/5.000A	4000	87					
PV120-27B26	120W	200-1100	26V/4.616A	4000	87					
PV120-27B28	120W	200-1100	28V/4.286A	4000	87					
PV120-27B48	120W	200-1100	48V/2.500A	4000	89					

PV200-2	7B			C€ RoHS	
Product Progra					
Model Number	Power	nput Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solation (VAC)	n Eff(%) (typ)
PV200-27B12	120W	200-1000	12V/10A	4000	86
PV200-27B15	150W	200-1000	15V/10A	4000	87
PV200-27B24	200W	200-1000	24V/8.333A	4000	87
PV200-27B26	200W	200-1000	26V/7.692A	4000	87
PV200-27B48	200W	200-1000	48V/4.166A	4000	87

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1 PV05/10/15-27BxxR2 Series: LxWxH: 70.0 x 48.0 x 23.5(mm)

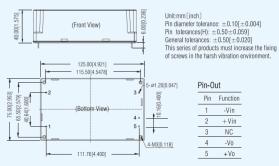


Pin	Function
1	NC
2	-Vin
3	+Vin
4	+V0
5	-Vo

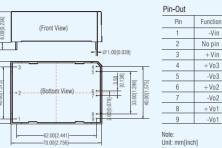
Unit-mm[inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$

Note: A2 chassis mounting and A4 DIN-Rail mounting is available for these products. For detailed dimensions and layout please refer to the datasheet.

2 PV40-27B/29B Series: LxWxH: 89.0 x 63.5 x 25.0(mm)



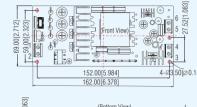
3 PV10-27C Series: LxWxH: 70.0 x 48.0 x 23.5(mm)





Unit: mm[inch]
Pin diameter tolerances: ±0.10[±0.004] General tolerances: +0.50[+0.020]

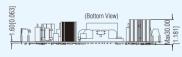
4 PV60-27D Series: LxWxH: 162.00x69.00x32.00(mm)



	2	-Vin				
	3	-Vo1				
.138] —	4	+Vo1				
	5	-Vo2				
	6	+Vo2				
Unit:mm[inch]						

Pin Function

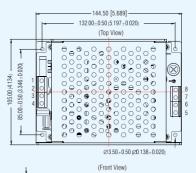
Pin-Out



6 PV200-27B Series: LxWxH: 168.00 x 110.00 x 45.00(mm)

Connector torque: 22-12 AWG Tightening torque:Max 0.4 N·m General tolerances: ±1.00[±0.039]

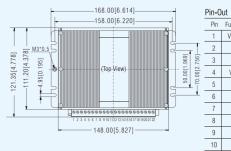
5 PV120-27B Series: LxWxH: 144.50x105.00x40.00(mm)





Pin-Out Pin Function +Vin NC -Vin PE 5,6 -V0 7.8

Connector torque: 22-12 AWG Tightening torque:Max 0.4 N·m General tolerances: ±1.00[±0.039]



	122.50[4.823]———
-annana	(Front View) 9 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	Pin	Function	Pin	Function		
	1	Vin+	12	NC		
	2	NC	13	NC		
756]	3	NC	14	NC		
50.00[1.969]	4	Vin-	15	NC		
20 12	5	NC	16	Trim		
	6	NC	17	Vo-		
	7	PE	18	Vo-		
	8	NC	19	Vo-		
	9	NC	20	Vo+		
	10	NC	21	Vo+		
	11	NC	22	Vo+		

Unit:mm [inch] General tolerances: ±1.00[±0.039] Wire range:28-12AWG

- Ultra-wide input voltage, widely used in PV & HVC applications
- Ultra-wide input voltage range: 150-1500VDC
- Isolation voltage 4000VAC
- Efficiency up to 80%
- Input under-voltage, reverse input voltage, output short-circuit, over-current, over-voltage protection
- High reliability, long lifespan, 3 years warranty
- Compact size and cost-effective series available
- UL1741, CSA-C22.2 No.107.1, EN62109 approved
- Optional package: PCB mounting, DIN-Rail mounting
- Operating altitude up to 5000m







A5 Chassis Mounting

A6 DIN-Rail Mounting



A10 DIN-Rail Mounting

A8 DIN-Rail Mounting





PV1	5-29	BxxL	



riouuctriogiaiii					ER 99.8354
Model Number	Power Input Voltage (VDC)		Output Voltage/Curren (Vo/lo)	t I solatio (VAC)	
PV15-29B05L	10W	200-1500	5V/2000mA	4000	70
PV15-29B12L	15W	200-1500	12V/1250mA	4000	76
PV15-29B15L	15W	200-1500	15V/1000mA	4000	77
PV15-29B24L	15W	200-1500	24V/625mA	4000	79

1. Chassis mounting series: with the suffix "A5". 2. DIN-Rail mounting series: with the suffix "A6".

PV40-29B





Product Program					
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Current (Vo/Io)	lsolation (VAC)	n Eff(%) (typ)
PV40-29B12	40W		12V/3330mA		78
PV40-29B15	40W	200-1500	15V/2670mA	4000	82
PV40-29B24	40W		24V/1670mA		83

DIN-Rail mounting series: with the suffix "A8" or "A10". A8 series have built-in high-voltage fuses and EMC filter modules.

PV200

UU-29	AR .	C	€ RoHS	A
et Progra				
Number	Power (VDC)	Output Voltage/Current	Isolation	Eff(9

. To be a second of the second						
	Model Number	Power Input Voltage (VDC)		Output Voltage/Curren (Vo/lo)	t I solation (VAC)	n Eff(%) (typ)
	PV200-29B24	200W	300-1500	24V/8.4A	4000	86
	PV200-29B48	200W	300-1500	48V/4.2A	4000	87
	PV200-29B32	200W	300-1500	32V/6.25A	4000	87

PV45-29[)		RoHS	學想		
Product Progra						
Model Number	Power I	nput Voltage (VDC)	Output Vo	ltage/Curren /o/Io)	t Isolatio (VAC)	. ,
PV45-29D1508-06	45W	150-1500		15V/2.66A BV/0.625A	4000	78
PV45-29D1505-10	45W	150-1500	Vo1/lo1: Vo2/lo2:	15V/2.66A 5V/1A	4000	78
PV45-29D1515-15	45W	150-1500		15V/1.53A 15V/1.53A	4000	78

PV15-29BxxR3



FloudetFlogialli						回定技術語
	Model Number	Power (VDC)		Output Voltage/Curre (Vo/lo)	nt Isolati (VAC	
	PV15-29B05R3	10W	200-1500	5V/2000mA	4000	64
	PV15-29B12R3	15W	200-1500	12V/1250mA	4000	71
	PV15-29B15R3	15W	200-1500	15V/1000mA	4000	80
	PV15-29B24R3	15W	200-1500	24V/625mA	4000	83

1. Chassis mounting series: with the suffix "A5". 2. DIN-Rail mounting series: with the suffix "A6".

PV150-29B



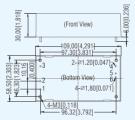
Product Progra					自然無影
Model Number	Power Input Voltage (VDC)		Output Voltage/Curren (Vo/Io)	t I solation (VAC)	n Eff(%) (typ)
PV150-29B12	120W	250-1500	12V/10000mA	4000	84
PV150-29B15	120W	250-1500	15V/8000mA	4000	85
PV150-29B24	150W	250-1500	24V/6250mA	4000	87
PV150-29B32	150W	250-1500	32V/4690mA	4000	87
PV150-29B48	150W	250-1500	48V/3125mA	4000	88
PV150-29B28	150W	250-1500	28V/5360mA	4000	87

PV15-290										
Product Program										
Model Number	Power I	nput Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t I solation (VAC)						
PV15-29C050505	15W	200-1500	Vo1/Io1: 5V/1500mA Vo2/Io2: 5V/800mA Vo3/Io3: 5V/400mA	4000	76					
PV15-29C050524	15W	200-1500	Vo1/lo1: 5V/1500mA Vo2/lo2: 5V/600mA Vo3/lo3: 24V/150mA	4000	76					

PV50-29[
Product Program 🚉							
Model Number	Power 1	nput Voltage (VDC)	Output Voltage/Curren (Vo/Io)	t I solation (VAC)	eff(%) (typ)		
PV50-29D1505-20	50W	150-1500	Vo1/Io1: 15V/2.66A Vo2/Io2: 5V/2A	4000	78		

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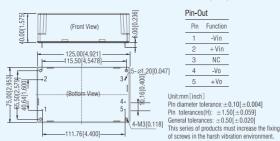
1 PV15-29Rxxl Series: LxWxH: 109 00x58 50x30 00(mm)



Pin-Out Pin Function Pin Function 1 +Vin 4 NC 2 -Vin 5 -Vo NC 6 + Vo

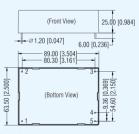
Pin 1 2 3 5 6's diameter 1 00[0 039] Pin 3,4' sdiameter: 1.20[0.047]
Pin diameter tolerance: ±0.10[±0.004] Pin tolerances(H): ±1.50[±0.059] General tolerances: ±0.50[±0.020] This series of products must increase the fixing of screws in the harsh vibration environ

3 PV40-29B Series: LxWxH: 125.00x75.00x40.00(mm)

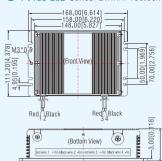


5 PV200-29B Series: LxWxH: 215.00 x 125.00 x 50.00(mm)

2 PV15-29RxxR3 Series: LxWxH: 89 00x63 50x25 00(mm)



4 PV150-29B Series: LxWxH: 168.00x111.20x42.50(mm)



Pin-Out Pin Function +Vin -Vin + Vo -Vo

Pin diameter tolerance: ±0.10[±0.004]

General tolerances: +0.50(+0.020)

Pin Function

1 -Vin

2 + Vin

4 -Vo

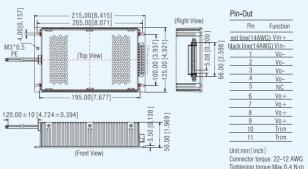
5 + Vn

Unit-mm[inch]

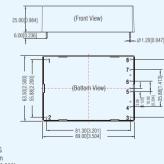
NC

Unit:mm[inch] Pin diameter tolerance: +1 00(+0 039)

6 PV15-29C Series: LxWxH: 89.00x63.50x25.00(mm)



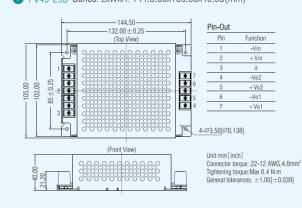




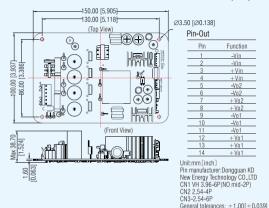
Pin₌Out Pin Function +Vin -Vin -Vo1 +Vo1 -Vn2 ± Vn2 -Vo3 +V03

Unit:mm [inch] Pin diameter tolerance: +0 10[+0 004]

PV45-29D Series: LxWxH: 144.5.00x105.00x40.00(mm)



8 PV50-29D Series: LxWxH: 150.00 x 100.00 x 38.70(mm)



32W

250-3300VDC Input Voltage

Charging

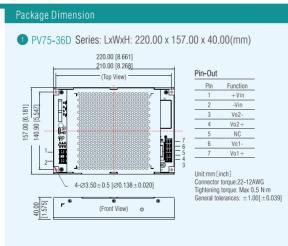
0.7-1A Sn

Specialized for Super-capacitor and Lithium Battery-powed DC/DC Converter (Bidirectional Charging)

Features:

- Ultra-wide input voltage range: 250-3300VDC
- Operating temperature: -40°C to +85°C
- High I/O isolation test voltage of 6000VAC (Input-output)
- High I/O isolation test voltage of 4000VAC (Vo1-Vo2)
- High efficiency, high reliability, long lifespan
- Input under-voltage, reverse input voltage protection
- Vo1: output short-circuit, over-current, over-voltage protection
- Immunity, EFT/Surge: ±4KV perf. Criteria B
- Operating up to 5000m altitude





RoHS &

PV75-36D

1 170 000									33329
Product Program									
	Output	t power	Nominal output voltage and current			Efficiency	Capacitive Ioad (μF) Max.		Isolation (VDC)
Model Number	Steady state Transient	Vo1/Io1	Vo2/Io2**		(%) Typ.				
Model Number		ITalistelli	(Constant voltage mode)	Transient* (Constant current mode)	Steady state (Constant voltage mode)	1500VDC	Vo1	Vo2	(100)
PV75-36D15400-01	32W	75W	15V/2000mA	20-400V/112.5mA	400V/5mA	70	2000	560	6000

Ultra-wide, Ultra-high Input Voltage

50W

makwa.m

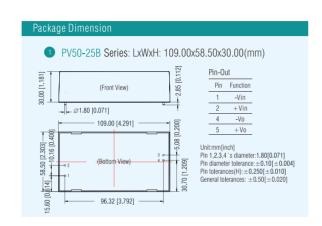
80-750VDC Input Voltage, Isolated & Regulated Output Series

Features:

- Ultra-wide input voltage range: 120-750VDC (PV50-25B12)/80-750VDC (PV50-25B24)
- Industrial operating temperature: -40°C to +70°C
- Isolation voltage 4000VAC
- High efficiency, low ripple & noise
- High reliability, long lifespan
- Input under-voltage, reverse input voltage, output short-circuit, over-current, over-voltage protection
- UL1741, EN62109 approved
- Operating up to 5000m altitude

PV50-25B RoHS								
	Product Prog	ram						
	Model Number	Power	Input Voltage (VDC)	Output Voltage/Curren (Vo/lo)	t Isolation (VDC)	Eff(%) (typ)		
	PV50-25B12	50W	120/80-750	12V/4170mA	4000	83		
	PV50-25B24	50W	120/00-130	24V/2083mA	4000	85		

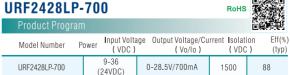




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Features:

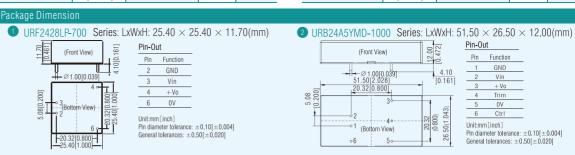
- Suitable for super-capacitor and lithium battery-powered applications
- · Constant voltage & current output
- Adjustable output voltage
- output short-circuit protection
- . Internal SMD construction
- Remote ON/OFF











Automotive

1W

Fixed Input Voltage, Specialized for Automotive Industry, Isolated & Unregulated Output Series

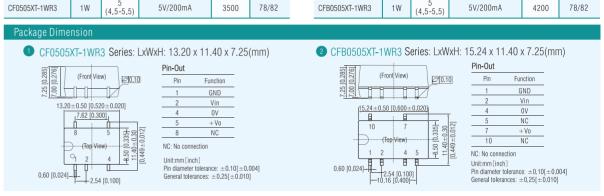
Features:

- . Meet AEC-Q100 standards
- Production process meets IATF16949 system
- Operating temperature: -40°C to +105°C
- Continuous short-circuit protection
- Isolation voltage 4200VDC/3500VDC
- Compact SMD package, International standard pin-out
- EN62368 approved









Automotive 6-8W

Wide Input Voltage, Specialized for Automotive Industry, Isolated & Regulated Output Series

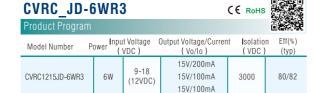
Features:

- Widely used for automotive, medical, industrial control, electric power, instrument, communication applications
- No-load power consumption as low as 0.12W
- Operating temperature: -40°C to +105°C
- Efficiency up to 82%
- Isolation voltage 3000VDC/4300VDC/3000VAC
- Meet AEC-Q100 standards
- EMI meets class 4 of CISPR25/EN55025
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- SMD/SIP package
- EN62368 approved



CWRF_S-3				C€ RoHS	
Product Progran					自然物理
Model Number	Power Inpu	ıt Voltage VDC)	Output Voltage/Currer (Vo/lo)	nt I solatio (VDC)	
CWRF1215S-3W	3W	7-18 (12VDC)	15V/200mA	4300	80/82

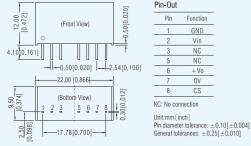
CUWF_J(Y)T-3WR3 Product Program									
9	wer Inp	ut Voltage VDC)	Output Vo (V	Itage/Current 'o/Io)	Isolation (VAC)	Eff(%) (typ)			
CUWF2405J(Y)T-3WR3	3W		5V	480/600mA		74/76			
CUWF2412J(Y)T-3WR3	3W	6-42	12V	200/250mA	3000	76/78			
CUWF2415J(Y)T-3WR3	3W	(24VDC)	15V	160/200mA		76/78			
CUWF2424J(Y)T-3WR3	3W		24V	100/125mA		78/80			



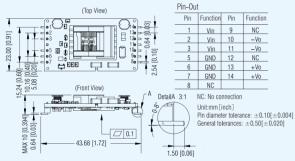
CUWF_J(Y)	T-6	WR3		(€ RoHS		
Product Program						
Model Number Pov	ver Inp	ut Voltage VDC)		Itage/Current /o/lo)	Isolation (VAC)	Eff(%) (typ)
CUWF2405J(Y)T-6WR3	6W		5V	960/1200mA		76/78
CUWF2412J(Y)T-6WR3	6W	6-42	12V	400/500mA	3000	78/80
CUWF2415J(Y)T-6WR3	6W	(24VDC)	15V	320/400mA		78/80
CUWF2424J(Y)T-6WR3	6W		24V	200/250mA		80/82

@3950:@

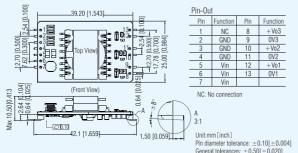




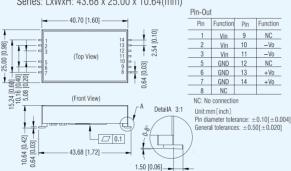








4 CUWF24 JYT-3WR3/CUWF24 JYT-6WR3 Series: LxWxH: 43.68 x 25.00 x 10.64(mm)



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Features:

- Widely used for automotive, industrial control, electric power, instrument, communication applications
- Meet AEC-Q100 standards, EN62368 approved
- Production process meets IATF16949 system
- FMI meets class 3 of CISPR25/FN55025
- 8:1 wide input voltage (4.5-36VDC)
- Operating temperature: -40°C to +105°C
- Efficiency up to 85%
- No-load power consumption as low as 0.06W
- Isolation voltage 1500VDC/2600VAC
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- International standard pin-out

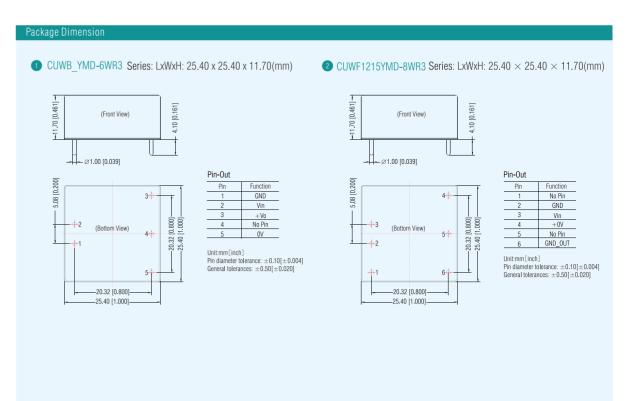




CUWF1215YMD-8WR3 **CUWB YMD-6WR3**

Model Number Po		ut Voltage VDC)		tage/Current o/lo)	Isolation (VDC)	Eff(%) (typ)	Model Numi
UWB1203YMD-6WR3	6W		3.3V	900/1500mA		77/79	
UWB1205YMD-6WR3	6W	4.5.00	5V	720/1200mA		81/83	CUWF1215YN
UWB1212YMD-6WR3	6W	4.5-36 (12VDC)	12V	300/500mA	1500	83/85	
UWB1215YMD-6WR3	6W	()	15V	240/400mA		83/85	
UWB1224YMD-6WR3	6W		24V	150/250mA		83/85	

Product Progran					
Model Number	Power Inp	ut Voltage VDC)	Output Voltage/Curren (Vo/lo)	t Isolatio	
CUWF1215YMD-8WR	3 8W	4.5-36 (12VDC)	15V/533mA	2600	76/78



DC/DC Converter

Wide Input Voltage, Specialized for Railway Industry, Isolated & Regulated Output Series

Features:

- Suitable for railway application
- Ultra-wide input voltage range: 40-160VDC
- Reinforced insulation, isolation voltage 2250/3000VDC
- Operating temperature: -40°C to +85°C
- International standard pin-out
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- Meet railway standard EN50155



"H" Horizontal package with heat sink

URA1D_YN		C€ RoHS			
Product Program					
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent I solatio (VDC)	
URA1D05YMD-6WR3	6W	40.400	± 5V/ ± 600mA	2250	78/80
URA1D12YMD-6WR3	6W	40-160 (110VDC)	± 12V/ ± 250mA		82/84
URA1D15YMD-6WR3	6W	(110000)	± 15V/ ± 200mA	(DIP)	83/85

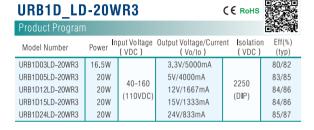
URB1D_YN	ID-6	WR3		€ RoHS	
Product Program					
Model Number	Power	Input Voltag (VDC)	e Output Voltage/Currer (Vo/lo)	t Isolation (VDC)	eff(%) (typ)
URB1D05YMD-6WR3	6W		5V/1200mA		78/80
URB1D12YMD-6WR3	6W	40-160	12V/500mA	2250	82/84
URB1D15YMD-6WR3	6W	(110VDC)	15V/400mA	(DIP)	83/85
URB1D24YMD-6WR3	6W		24V/250mA		84/86

URA1D_(X)L Product Program	.MD	-10W	R3	C€ RoHS	
Model Number Po	wer I n	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent Isolatio (VDC)	
URA1D05(X)LMD-10WR3 URA1D12(X)LMD-10WR3 URA1D15(X)LMD-10WR3	10W 10W 10W	40-160 (110VDC)	±5V/±1000mA ±12V/±417mA ±15V/±334mA	2250 (DIP)	78/80 82/84 82/84

URB1D_LM Product Program		0WR3		C€ RoHS	
r roddot r rogram		Input Voltag	e Output Voltage/Curr	ent I solati	on Eff(%)
Model Number	Power	(VDC)	(Vo/lo)	(VDC	
URB1D03LMD-10WR3	8W		3.3V/2400mA		74/76
URB1D05LMD-10WR3	10W		5V/2000mA		78/80
URB1D12LMD-10WR3	10W	40-160	12V/833mA	2250	82/84
URB1D15LMD-10WR3	10W	(110VDC)	15V/667mA	(DIP)	82/84
URB1D24LMD-10WR3	10W		24V/417mA		83/85

URB1D_LN	C€ RoHS							
Product Program								
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt I solatio (VDC)				
URB1D03LMD-15WR3	13.2W		3.3V/4000mA		80/82			
URB1D05LMD-15WR3	15W		5V/3000mA		82/84			
URB1D12LMD-15WR3	15W	40-160	12V/1250mA	2250	82/84			
URB1D15LMD-15WR3	15W	(110VDC)	15V/1000mA	(DIP)	83/85			
URB1D24LMD-15WR3	15W		24V/625mA		83/85			

4000	URB1D_LM	D-2	0WR3	•	C€ RoHS	
ř	Product Program					
	Model Number	Power	Input Voltagi (VDC)	e Output Voltage/Curre (Vo/lo)	nt I solatio (VDC)	
	URB1D03LMD-20WR3	16.5W		3.3V/5000mA		80/82
	URB1D05LMD-20WR3	20W		5V/4000mA		82/84
	URB1D12LMD-20WR3	20W	40-160	12V/1667mA	2250	83/85
	URB1D15LMD-20WR3	20W	(110VDC)	15V/1333mA	(DIP)	84/86
	URB1D24LMD-20WR3	20W		24V/833mA		84/86



URE1D_LD	-20	WR3		RoHS	
Product Program					
Model Number	Power	Input Voltage (VDC)	e Output Voltage/Curr (Vo/lo)	ent I solatio (VDC	
URE1D12LD-20WR3	20W	40.400	± 12V/ ± 833mA	0000	83/85
URE1D15LD-20WR3	20W	40-160	$\pm 15V/ \pm 667 mA$	3000	84/86
URE1D24LD-20WR3	20W	(110VDC)	$\pm 24V/ \pm 417mA$	(DIP)	84/86

URF1D LD-40WR3

33W

40W

40W

40W

40W

40 160

(110VDC

Model Number

LIRE1D03LD-40WR3

URF1D05LD-40WR3

URF1D12LD-40WR3

URF1D15LD-40WR3

URF1D24LD-40WR3

URF1D48I D-40WR3



85/87

86/88

89/91

89/91

87/80

87/89

3000

(DIP)

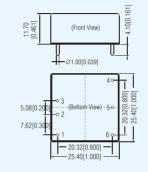
Product Program				P. E	
Model Number Por	ver Input Vo		ut Voltage/Current (Vo/lo)	Isolation (VAC)	Eff(%) (typ)
UWTH1D03QB-50W(H/F)	R3 30W		3V/10000mA		85/87
UWTH1D05QB-50W(H/F)	R3 50W		5V/10000mA		88/90
UWTH1D12QB-50W(H/F)	R3 50W	14-160	12V/4166mA		87/89
UWTH1D15QB-50W(H/F)	R3 50W	(110VDC)	15V/3333mA	3000	87/89
UWTH1D24QB-50W(H/F)	R3 50W	(110000)	24V/2083mA		88/90
UWTH1D48QB-50W(H/F)	R3 50W		48V/1041mA		87/89
UWTH1D54QB-50W(H/F)	R3 50W		54V/926mA		87/89

UWTH1D QB-50WR3

Package Dimension

■ URA1D YMD-6WR3/URB1D YMD-6WR3

Series: LxWxH: $25.40 \times 25.40 \times 11.70$ (mm)



Pin	Single	Dual
1	No pin	Ctrl
2	GND	GND
3	Vin	Vin
4	+Vo	+V0
5	No pin	OV
6	OV	-Vo

Pin-Out

3 3V/1000mA

5V/8000mA

12V/3333mA

15V/2667mA

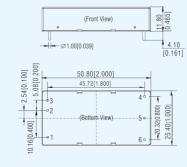
24V/1667mA

48V/833mA

Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020]

3 URF1D LD-40WR3/URE1D LD-20WR3

Series: LxWxH: $50.80 \times 25.40 \times 11.80$ (mm)

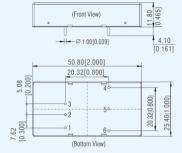


Pin	Function	
1	Ctrl	
2	GND	
3	Vin	
4	+V0	
5	0V	
6	Trim	

Pin diameter tolerance: ±0.10[±0.004] General tolerances: $\pm 0.50[\pm 0.020]$

2 URA1D (X)LMD-10WR3/URB1D LMD-10WR3/URB1D LMD-15WR3/ URB1D LMD-20WR3/URB1D LD-20WR3

Series: LxWxH: $50.80 \times 25.40 \times 11.80$ (mm)



I III Out	
Pin	Function
1	Ctrl
2	GND
3	Vin
4	+V0
5	Trim
6	0V
Unit:mm [inch	1

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$ Note: LIRR1D_LMD_10WR3

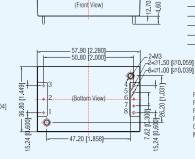
Ctrl

-Vin

Sense-

6 Trim Sense+

4 UWTH1D QB-50WR3 Series: LxWxH: 57.90 x 36.80x 12.70mm



4.00 [0.157]~10.00 [0.394] P\Unit:mm[inch] Pin 1,2,3,5,6, 7's diameter:1.00[0.039] Pin 4,8' sdiameter: 1.50[0.059] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$ Mounting hole screwing torque:Max0.4N.m

Recommended length of the screw

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[•] This catalog is for reference only, not being the judgment basis for the use. For detailed datasheets please visit our website: www.mornsun-power.com.

- Suitable for railway application
- Ultra-wide input voltage range: 14-160VDC/43-160VDC/40-160VDC
- Operating temperature: -40°C to +105°C
- Isolation voltage 3000VAC
- Input under-voltage, output short-circuit, over-current, over-voltage protection
- International standard pin-out
- Meet railway standard EN50155

URF1D_QB-	50W	/R3		(€ RoHS	
	ower In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt I solatio (VAC)	
URF1D03QB-50W(H)R3 URF1D05QB-50W(H)R3 URF1D12QB-50W(H)R3 URF1D15QB-50W(H)R3 URF1D24QB-50W(H)R3 URF1D48QB-50W(H)R3	37.5W 50W 50W 50W 50W 50W	43-160 (110VDC)	3.3V/11364mA 5V/10000mA 12V/4167mA 15V/3333mA 24V/2083mA 48V/1041mA	3000	84/86 85/87 86/88 86/88 87/89 85/87

URF1D QB-100WR3 Product Progran Power Input Voltage Output Voltage/Current Isolation Eff(%) Model Number (VDC) (Vo/lo) (VAC) (typ) URF1D03QB-100WR3 3.3V/22727mA 84/86 URF1D050B-100WR3 100W 5V/20000mA 86/88 LIRE1D120B-100WB3 100W 12V/8333mA 87/89 43-160 3000 URF1D15QB-100WR3 100W 15V/6667mA 87/89 (110VDC) URF1D24QB-100WR3 100W 24V/4167mA 89/91 URF1D48QB-100WR3 100W

48V/2083mA

86/88

UWTH1D_HB-	100WR3	(€	RoHS	
Product Program			ē	100
Model Number Power	Input Voltage Out (VDC)	put Voltage/Current (Vo/lo)	Isolation (VAC)	Eff(%) (typ)
UWTH1D12HB-100W(H)R3	100W	12V/8330mA		90/92
UWTH1D24HB-100W(H)R3	100W	24V/4160mA		90/92
UWTH1D28HB-100W(H)R3	100W 14-160	28V/3570mA	3000	89/91
UWTH1D48HB-100W(H)R3	100W (110VDC)	48V/2080mA	3000	89/91
UWTH1D54HB-100W(H)R3	100W	54V/1850mA		89/91

URF1D_HB	RoHS						
Product Program • • • • • • • • • • • • • • • • • • •							
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	ent I solatio (VAC)			
URF1D05HB-150WR3 URF1D12HB-150WR3 URF1D15HB-150WR3 URF1D24HB-150WR3 URF1D48HB-150WR3	120W 150W 150W 150W 150W	43-160 (110VDC)	5V/24000mA 12V/12500mA 15V/10000mA 24V/6250mA 48V/3120mA	3000	86/88 87/89 87/89 88/89 86/88		

UWTH1D_HB Product Program	-20	0W (H	I)R3	RoHS	
· ·		ut Voltage VDC)	Output Voltage/Curre (Vo/lo)	ent I solatio (VAC)	
UWTH1D12HB-200W(H)R3 UWTH1D24HB-200W(H)R3 UWTH1D28HB-200W(H)R3 UWTH1D48HB-200W(H)R3 UWTH1D54HB-200W(H)R3	200W 200W 200W 200W 200W	14-160 (110VDC)	12V/16660mA 24V/8330mA 28V/7140mA 48V/4160mA 54V/3700mA	3000	90/92 90/92 81/91 81/91 81/91



	URF1D_QB	-75V	VR3		(€ RoHS	
	Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt Isolation (VAC)	()
	URF1D03QB-75W(H)R3	56W		3.3V/17045mA		84/86
	URF1D05QB-75W(H)R3	75W		5V/15000mA		86/88
	URF1D12QB-75W(H)R3	75W	43-160	12V/6250mA		87/89
	URF1D15QB-75W(H)R3	75W	(110VDC)	15V/5000mA	3000	87/89
	URF1D24QB-75W(H)R3	75W	(1.000)	24V/3125mA		89/91
	URF1D48QB-75W(H)R3	75W		48V/1563mA		86/88

UWTH1D_QB-100WR3 RoHS								
	Product Program							
	Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/Io)	nt Isolatio (VAC)	. ,		
	UWTH1D12QB-100WR3 UWTH1D15QB-100WR3 UWTH1D24QB-100WR3 UWTH1D28QB-100WR3 UWTH1D48QB-100WR3	100W 100W 100W 100W	14-160 (110VDC)	12V/8330mA 15V/6670mA 24V/4160mA 28V/3570mA 48V/2080mA	3000	88/90 88/90 87/89 87/89 88/90		

FERNORS WHEN

URF1D_HB-250WR3 RoHS								
Product Program Open Product Program								
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/lo)	nt I solatio (VAC)				
URF1D05HB-250WR3	200W	40-66	5V/40000mA		87/88			
URF I DUOMB-200WR3	200W	66-160	5V/40000mA		01/00			
URF1D12HB-250WR3	250W	40-66	12V/16670mA		88/90			
ORFIDIZHB-ZOUWK3	250W	66-160	12V/20840mA		00/90			
URF1D15HB-250WR3	250W	40-66	15V/13330mA		88/90			
OH TOTOTO ZOOWIO	250W	66-160	15V/16670mA		00,00			
URF1D24HB-250WR3	250W	40-66	24V/8330mA	3000	88/90			
OTH TOE HID ECOVITIO	250W	66-160	24V/10420mA		00,00			
URF1D48HB-250WR3	250W	40-66	48V/4160mA		88/90			
0111 1D4011D-230WN3	250W	66-160	48V/5200mA		00/30			
URF1D54HB-250WR3	250W	40-66	54V/3700mA		88/90			
0111 1D0411D-230W113	250W	66-160	54V/4630mA		00/30			

URF1D_FB-	400	W(H)F	R3	RoHS	
Product Program					
Model Number	Power In	put Voltage (VDC)	Output Voltage/Curre (Vo/Io)	nt Isolation (VAC)	n Eff(%) (typ)
URF1D05FB-400W(H)R3	320W		5V/64000mA		84/86
URF1D09FB-400W(H)R3	400W		9V/44440mA		88/90
URF1D12FB-400W(H)R3	400W		12V/33330mA		89/91
URF1D15FB-400W(H)R3	400W	66-160	15V/26670mA		89/91
URF1D24FB-400W(H)R3	400W	(110VDC)	24V/16670mA	3000	90/92
URF1D28FB-400W(H)R3	400W	(110400)	28V/14290mA		90/92
URF1D48FB-400W(H)R3	400W		48V/8333mA		90/92
URF1D54FB-400W(H)R3	400W		54V/7410mA		90/92

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1 URF1D QB Series: Without heat sink: LxWxH: $60.80 \times 39.20 \times 12.70$ (mm) With heat sink: LxWxH: $61.50 \times 39.20 \times 27.80$ (mm) Pin-Out Pin_∩ut Pin Pin Function +Vin +Vin Ctrl Ctrl -Vin -Vin Mounting hole 2-M3.00[0.118] -OV nν Sense-Sense-Mounting hole 2-M3 00[0 118] 6 Trim Trim 7 Sense+ Sense+ (Bottom View) + Vo (Bottom View) - 6- Ø1 001 Ø1 0391 Hoit-mm [inch] Pin 1,2,3,5,6, 7's diameter:1.00[0.039] Pin 1,2,3,5,6, 7's diameter:1.00[0.039] 47 2011 858 -6-Ø1.00[Ø0.039] Pin 4.8' sdiameter: 1.50(0.059) Pin 4.8' sdiameter: 1.50(0.050) Pin 4,8 solameter: 1.50[0.059] Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020] Pin diameter tolerance: ±0.10[±0.004] General tolerances: +0.50[+0.020] 47.20[1.858] Mounting hole screwing torque:Max0.4N.m Mounting hole screwing torque:Max0.4N.m 2 UWTH1D-0B-100WR3 Series: LxWxH: 57.90 x 36.80x 12.70(mm) 3 UWTH1D-HB-100WR3/200WR3 Series: LxWxH: 61.00 x 58.00 x 14.00(mm) Pin-Out (Front View) Pin Function Pin Function (Front View) 2 UVLO 7 Sense-3 Ctrl 8 Trim -61,00[2,402] | | | | ___50.80 [2.000]_ 4 Ext. Cap. 9 Sense+ 5 -Vin 10 +Vo 4 Ext. Cap. 9 Sense+ 35.56 [1.400] 2 031 50 -030 050-__ 57.90 [2.280] _ __ 50.80 [2.000] _ 5 _Vin 10 _+Vo Pin 2.3.4.7.8. 9's diameter: 1.00[0.039] Pin 1 2 3 4 5 7 8 9's diameter:1 0000 0391 Pin 1,5' sdiameter: 1.50[0.059] Pin 6,108' sdiameter: 1.50[0.059] Pin diameter tolerance: ±0.10[±0.004] Pin 6 10' sdiameter: 2 0000 0791 (Bottom View) Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020] General tolerances: +0.50(+0.020) Mounting hole screwing torque:Max0.4N.m Mounting hole screwing torque:Max0 4N m Recommended length of the screw Recommended length of the screw 4.00 [0.157]~5.50 [0.217] - 47 20 [1 858] Mounting hole 4–M3 4.00 [0.157]~5.50 [0.217] 6-Ø1.00 (Ø0.039) -4 URF1D HB-150WR3/URF1D HB-250WR3 Series: Without heat sink: LxWxH: $61.00 \times 57.90 \times 13.80$ (mm) With heat sink: LxWxH: $62.00 \times 58.00 \times 31.80$ (mm) Pin-Out Pin-Out Pin Function (Front View) Pin Function +Vin +Vin (Front View) Ctrl Ctrl 61.00[2.402] Case - 50 80T2 0001 3 Case -Vin → 35 56[1 400] — -Vin OV OV — 50.80[2.000] Sense-→ 35.56[1.400] -Sense-Trim Trim Sense+ 8 Sense+ 9 + V₀ (Rottom View) 30[1. Pin 1,2,3,4,6,7,8's diameter:1.00[0.039] (Bottom View) Pin 5,9' sdiameter: 2. 00[0.079] Pin diameter tolerance: ±0.10[±0.004] Pin 1,2,3,4,6,7,8's diameter:1.00[0.039] Pin 5 9' sdiameter: 2 0000 0791 General tolerances: +0.50(+0.020) Mounting hole 4–M3[0.118] General tolerances: ±0.50[±0.020] Mounting hole screwing torque:Max0.4N.m 7-Ø1.00[Ø0.039] Mounting hole screwing torque Max0 4N m 15.20[0.598] 2- Ø2 001Ø0 0791 Mounting hole 4-M3[0.118] 7-Ø1.00[Ø0.039]~ 15.20[0.598] 2- Ø2.00[Ø0.079] **1** URF1D-FB-400WR3 Series: LxWxH: 116.80 x 61.00 x 13.00(mm) - 116.80 [4.599] - 106.68 [4.200] Pin-Out +Vin 7 Sense Ctrl 8 Trim 402] 000] Case 9 Sense+ 4 -Vin 10 Recommended length of the screw 5 OV 11 Pin 1,4,5,6,10, 11's diameter:2.00[0.079] 6 0V Pin 2.3.7.8.9' sdiameter: 1.00[0.039] **(** Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.50[±0.020] 4.00 [0.157]~10.00 [0.394] Mounting hole screwing torque:Max0.4N.m. Ø2.00 [Ø0.079] -

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DC/DC Converter

Non-isolated 0.3-1A Wide Input Voltage, Non-isolated & Regulated Output Series

Features:

- Operating temperature: -40°C to +85°C
- Efficiency up to 96%
- No-load input current as low as 0.1mA
- Continuous short-circuit protection
- Negative output available: part of R3 series
- rith LM78xx linear regulators (SIP package)

÷	And the Day of the Control
•	EN62368 approved
•	Pin-out compatible wit

LINUZSUU appiuve	tu -						
Product Program							
Model Number	Input voltage (VDC)*		tput	Full load	Capacitive load (µF)	Madian	Detections
Model Number	Nominal (Range)	Voltage (VDC)	Current (mA) Max.	efficiency (%) Vin Min. / Vin Max.	Max.	Markings	Datasheet
K78U24-300R3(L)	48(36-90)	24	500	93/85	100		
K78U03-500R3(L)	48(9-90)	3.3	500	82/69	100		回答数处回
K78U05-500R3(L)	48(9-90)	5	500	87/75	100		
K78UX6-500R3(L)	48(9-90)	6.5	500	91/78	100	(€ RoHS	
K78U09-500R3(L)	48(14-90)	9	500	91/80	100		ERROPASSA
K78U12-500R3(L)	48(18-90)	12	500	91/83	100		K78U-500R3(L)
K78U15-500R3(L)	48(20-90)	15	500	93/84	100		
	24(4.5-36)	3.3	500	89/71	680		
K7803MT-500R4	12(7-32)	- 3.3	-300	80/71	470		
	24(6.5-36)	5	500	91/78	680		
K7805MT-500R4	12(7-31)	-5	-300	78/71	470		Dece-OD
	24(8-36)	6.5	500	91/81	680		
K78X6MT-500R4	12(7-28)	-6.5	- 250	80/73	470	C € RoHS	
	24(12-36)	9	500	92/86	680		■55559 66
K7809MT-500R4	12(8-27)	- 9	-200	82/77	470		K78 MT-500R4
	24(15-36)	12	500	92/86	680	-	_
K7812MT-500R4	12(8-24)	-12	- 150	81/79	470		
	24(18-36)	15	500	91/87	680	1	
K7815MT-500R4	12(8-27)	-15	– 150	80/84	470	1	
	24(4.75-36)	3.3	1000	89/81	680		
K7803MT-1000R4	12(8-27)	- 3.3	-500	85/81	330	1	
			1000	92/84	680		
K7805MT-1000R4	MI-1000R4	-500	85/83	330		EIVS-89EI	
	12(8-27) 24(8-36)	- 5	1000	92/86	680	RoHS 051-1	3000 S
K78X6MT-1000R4		6.5	-500	83/84	330		■ 1.2 P. K78_MT-1000R4
	12(8-24) 24(12-36)	- 6.5	1000	92/87	680		
K7809MT-1000R4		9	-500	81/84	330		
	12(8-24)	<u>-9</u>	1000	94/89	680	-	
K7812MT-1000R4	24(15-36)	12	- 300	83/84	330	-	
	12(8-20)	- 12	1000	94/90	680	-	
K7815MT-1000R4	24(18-36)	15 15	- 300	82/84	330	-	
1/7000 F00D0	12(8-18)				680		
K7803-500R3	24(4.75-36)	3.3	500	86/80			
K7805-500R3	24(6.5-36)	5	500	90/84	680		
1/7000 F00D0	12(7-31)	-5	- 300	80/81	330	5 11 (6	
K7809-500R3	24(12-36)	9	500 500	93/90 94/91	680 680	c ¶L us (€ RoHS	
K7812-500R3	24(15-36)				330	-	
	12(8-24)	- 12	150 500	84/85		-	K78-500R3
K7815-500R3	24(19-36)	15	- 150	95/93 85/87	680 330	-	
K7803JT-500R3	12(8-21) 24(4.75-36)	- 15 3,3	500	86/80			
	24(6.5-36)	5.3		90/84	680	-	見過數數
K7805JT-500R3	24(0.3-36)		500		680	C € RoHS	
K7809JT-500R3	24(15-36)	9	500	93/90	680	CE ROHS	
K7812JT-500R3	24(19-36)	12	500	94/91	680		K78-JT-500R3
K7815JT-500R3		15	500	95/93	680		17.0 01-000110
K7801T-500R3	12(4.75-28)	1.5	500	76/67	680	-	
K78X2T-500R3	12(4.75-28)	1.8	500	76/69	680	4	
K7802T-500R3	24(4.75-32)	2.5	500	81/74	680	-	
K7803T-500R3	24(4.75-36)	3.3	500	86/80	680		250
K7805T-500R3	24(6.5-36)	5	500	90/84	680	(€ RoHS	
K78X6T-500R3	24(8-36)	6.5	500	92/87	680	4	WZOT COORC
K7809T-500R3	24(12-36)	9	500	93/90	680	4	K78T-500R3
K7812T-500R3	24(15-36)	12	500	94/91	680		

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680

95/93

Package Dimension

1 K78Uxx-500R3 Series: LxWxH: 11.50 x 9.00 x 17.50(mm)

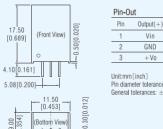
2,15[0,085] --- 0,50[0,020]

___9.00±0.30 __ [0.354±0.012]

(Ton View)

10.85 [0.034] 0.85 [0.033] 5.08 [0.200]

0.30 [0.012]



2 K78 MT-500R4/1000R4 Series: LxWxH: $9.00 \times 7.00 \times 3.10$ (mm)

3 10+0 30

[0.122±0.012]

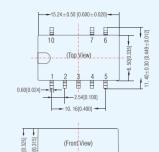
Pin Output(+) Output(-) GND -Vo +Vn GND

Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0.25[±0.010]

3 K78T-500R3 Series: LxWxH: $15.24 \times 11.40 \times 8.25$ (mm)

K78Uxx-500R3L Series: LxWxH: 9.00 x11.5 x 19.00(mm)

⊥ 9.00 [0.354]



4.10 [0.161]

(Bottom View)

Pin-Out Pin Function +Vin GND + Vout +Vout vadj GND 10 Remote on/off

Pin Function

Unit:mm [inch]

GND

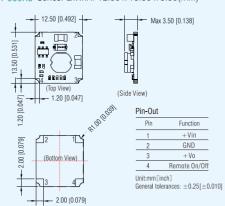
+V0

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$

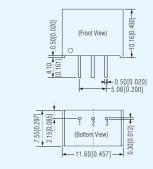
Pin diameter tolerance: ±0.10[±0.004]

4 K78 JT-500R3 Series: LxWxH: 12.50 x 13.50 x 3.50(mm)

General tolerances: $\pm 0.10[\pm 0.004]$



5 K78xx-500R3 Series: LxWxH: 11.60 x 7.55 x 10.16(mm)



	- 1	VIII	VIII				
	2	GND	-Vo				
	3	+Vo	GND				
F	Unit:mm[inch] Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$						

Pin Output(+) Output(-)

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K7815T-500R3

24(19-36)

500

Non-isolated 0.3-3A Wide Input Voltage, Non-isolated & Regulated Output Series

Features

- Operating temperature: -40° C to $+85^{\circ}$ C
- Efficiency up to 96%
- No-load input current as low as 0.1mA
- Continuous short-circuit protection
- Negative output available: part of R3 series
- Pin and a small blanch blanch

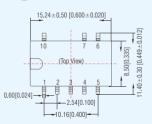
duct Program									
	Input voltage (VDC)*	0ι	itput	Fullload	Capacitive load (μF)				
Model Number	Nominal (Range)	Voltage (VDC)	Current (mA) Max.	efficiency (%) Vin Min. / Vin Max.	Max.	Markings	igs Datasheet		
K7801T-1000R3	12(4.75-32)	1.5	1000	76/66	680				
K78X2T-1000R3	12(4.75-32)	1.8	1000	79/69	680				
K7802T-1000R3	12(4.75-32)	2.5	1000	86/74	680	(€ RoHS			
K7803T-1000R3	24(6.5-36)	3.3	1000	90/80	680				
K7805T-1000R3	24(8-36)	5	1000	93/85	680				
K78X6T-1000R3	24(10-36)	6.5	1000	93/86	680				
K7809T-1000R3	24(13-36)	9	1000	94/89	680		K78T-1000F		
K7812T-1000R3	24(16-36)	12	800	95/92	680				
K7803-1000R3(L)	24(6-36)	3.3	1000	90/81	680				
	24(8-36)	5	1000	93/86	680				
K7805-1000R3(L)	12(8-27)	- 5	- 500	86/82	330				
K7809-1000R3(L)	24(13-36)	9	1000	95/90	680	¢ FN us C € RoHS			
1/7040 4000D0(I)	24(13-36)	12	1000	96/93	330	c TLL us C C ROHS	自冷疾病		
K7812-1000R3(L)	12(8-20)	- 12	-300	89/88	680		K78-1000R3		
	24(20-36)	15	1000	96/94	680		K70-1000110		
K7815-1000R3(L)	12(8-18)	– 15	- 300	89/89	330				
K7803M-1000R3	24(6-36)	3.3	1000	90/80	680	(€ RoHS			
	24(8-36)	5	1000	93/85	680				
K7805M-1000R3	12(8-27)	-5	- 500	85/81	330				
K78X6M-1000R3	24(10-36)	6.5	1000	93/85	680				
K7809M-1000R3	24(13-36)	9	1000	94/89	680				
	24(16-36)	12	1000	95/92	680		E1999-2528		
K7812M-1000R3	12(8-20)	- 12	-300	88/87	330		K78_M-1000I		
	24(20-36)	15	1000	96/93	680				
K7815M-1000R3	12(8-18)	- 15	-300	87/88	330				
K7802-2000R3	24(4.5-36)	2.5	2000	89/83	2000				
K7803-2000R3	24(6-36)	3.3	2000	89/85	1800		国数学品间		
K7805-2000R3	24(8-36)	5	2000	92/89	1000				
K7809-2000R3	24(13-36)	9	2000	95/92	680	(€ RoHS			
K7812-2000R3	24(16-36)	12	2000	96/94	470		国际AVW854		
K7815-2000R3	24(18-36)	15	2000	96/94	470		K78-2000		
K78L03-500R3	24(4.75-36)	3.3	500	86/80	680				
	24(6.5-36)	5	500	90/84	680		C128874 C		
K78L05-500R3	12(7-31)	-5	-300	80/81	330	1			
	24(15-36)	12	500	94/91	680	c R us (€ RoHS			
K78L12-500R3	12(8-24)	- 12	– 150	84/85	330		■ 54674 3 6		
	24(19-36)	15	500	95/93	680	•	K78Lxx-500		
K78L15-500R3	12(8-21)	- 15	– 150	85/87	330				
K78L03-1000R3	24(6-36)	3.3	1000	89/80	680				
	24(8-36)	5	1000	93/86	680	1			
K78L05-1000R3	12(8-27)	- 5	-500	86/82	330				
	24(16-36)	- 5 12	1000	95/92	680	c FN us (€ RoHS			
K78L12-1000R3	12(8-20)	- 12	-300	88/87	330	C ROUS C C ROUS			
	24(20-36)	15	1000	96/94	680		K78Lxx-100		
K78L15-1000R3	12(8-18)	– 15	- 300	89/89	330				
K78(L)03-3AR3	24(8-36)		3000	90/83	1000				
K78(L)03-3AR3 K78(L)05-3AR3	24(8-36)	3.3 5	3000	93/89	680	-	mar.es: =		
K78(L)U5-3AR3 K78(L)X6-3AR3	24(8-36)	6.5	3000	94/90	330	-			
K78(L)09-3AR3	24(10-36)	9	3000	95/91	330	(€ RoHS			
	(/	12	3000		330				
K78(L)12-3AR3	24(16-36)	12	3000	97/93	330		K78(I)vv-3/		

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97/94

K78(L)xx-3AR3

1 K78 T-1000R3 Series: LxWxH: 11.40x15.24 x 8.25(mm)



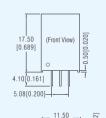
(Front View)

□ 0.10

Pin	Function
1	+Vin
2	+Vin
3	GND
4	+Vout
5	+Vout
6	vadj
7	GND
10	Remote on/off

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004] General tolerances: ±0,25[±0,010]

2 K78xx-1000R3(L) Series: LxWxH: 11.50 x 9.00 x 17.50(mm)

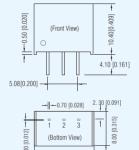


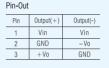
Pin-Out Pin Output(+) Output(-) Vin Vin GND -Vo +Vo GND

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.25[\pm 0.010]$

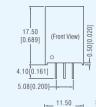
Unit:mm[inch]

4 K78-2000R3 Series: LxWxH: 11.50 \times 9.00 \times 17.50(mm)





Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$



Pin-Out Output(+) Pin Vin + Vo

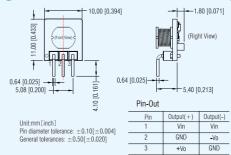
Pin diameter tolerance: ±0.10f±0.0041

Pin Output(+) Output(-) 1 Vin Vin GND

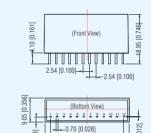
(Bottom View) 2.15[0.085] - - 0.70[0.028]

5 K78Lxx-500R3 Series: LxWxH: 10.00 x 7.20 x 11.00 (mm)

3 K78 M-1000R3 Series: LxWxH: $11.60 \times 8.00 \times 10.40$ (mm)



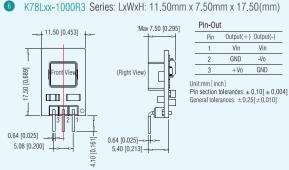
7 K78xx-3AR3 Series: LxWxH: 32.15 x 14.85 x 9.05(mm)



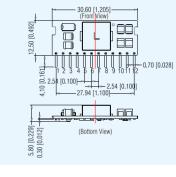
27.94 [1.100]

Pin	Function
1	Ctrl
2,3,4	Vin
5,6,7,8	GND
9,10	$+V_0$
11	$+V_0$
12	Trim

Unit:mm[inch]
Pin diameter tolerance: ±0.10[±0.004] General tolerances: $\pm 0.50[\pm 0.020]$



K78Lxx-3AR3 Series: LxWxH: 30.6 x 12.5 x 5.8(mm)



Pin-Out	
Pin	Function
1	Ctrl
2,3,4	Vin
5,6,7,8	GND
9,10	+V0
11	+Vo
12	Trim

Pin diameter tolerance: ±0.10[±0.004]

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K78(L)15-3AR3

24(19-36)

3000

Features

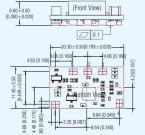
- POL power converter
- Operating temperature: -40°C to +85°C
- Efficiency up to 96%
- Input under-voltage, output short-circuit, over-current protection
- Compact SMD package
- EN62368 approved



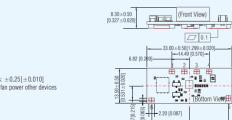
Product Progran	ı									
	Input' (VI	Voltage DC)	Output			Capacit	ive load (μF) Max.			
Model Number	Nominal (Range)	Max.*②	Voltage(VDC)③ (Range)	Output Curren(A) Max /Min	Efficiency (%) Min./Typ.	1mΩ≤ESR <10 mΩ	ESR≥10 mΩ	Markings	Datasheet	
K12T-6A-P	12	15	0.75~5.0	6/0	90/94	1000	3000	C€ RoHS		
K12T-6A-N	(8.3-14)	10	, ,	0.70 0.0	0,0	00/01	, 000		CC Rono	■ 24. K12T-6A-P(N)
K12T-10A-P	12	15	0.75~5.0	10/0	93/96	5000	6000	66.5.00		
K12T-10A-N	(8.3-14)	10	0.70 0.0	10/0	30/30	3000	0000	(€ RoHS	K12T-10A	
K12T-16A-P	12	15	0.75~5.0	16/0	92/95	5000	6000			
K12T-16A-N	(8.3-14)	(8.3-14) 15	0.75**5.0	10/0	92/93	3000	0000	(€ RoHS	E Κ12Τ-16Δ	

Package Dimension

1 K12T-6A-P(N) Series: LxWxH: 20.30 x 11.40 x 6.60(mm)



5 Vin Unit:mm[inch] General tolerances: ±0.25[±0.010]



(Front View)

2 K12T-10A/16A Series: LxWxH: 33.00 x 13.50 x 8.30(mm)

Unit:mm[inch]
General tolerances: ±0.25[±0.010] Please do not use fan power other devices

Features:

- Efficiency up to 97%
- Input under-voltage, output short-circuit, over-current protection
- Operating temperature: -40°C to +85°C
- Open frame package
- 1/4-Brick package international standard pin-out
- Adjustable input starting (under-voltage) voltage
- EN62368 approved

KUB4824QB-10A

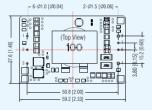




Product Program							
Model Number	Input Voltage (VDC)		Out	put	Full load efficiency(%)		
Model Number	Nominal (Range)	Max.*(2)	Voltage (VDC)	Current (VDC)	Min./Typ.	Capacitive load (μF)	
KUB4824QB-10A	48 (30-75)	80	24	10	94/97	3300	
KUB4812QB-10A	48 (16-75)	80	12	10	92/95	5500	

Package Dimension

1 KUB4824QB-10A/KUB4812QB-10A Series: LxWxH: $59.20 \times 37.60 \times 13.00$ (mm)





Pin-Out						
Pin	Function					
1	+Vin					
2	Ctrl					
3	-Vin					
4	οV					
6	Trim					
7	Sense+					

Unit:mm[inch]
Pin 1,2,3,6, 7's diameter:1.0[0.04]
Pin 4,8's diameter: 1,5[0.06]
Pin diameter tolerance:±0.10[±0.004]
General tolerances:±0.50[±0.020]

[•] This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

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CAN Bus Isolated Transceiver Module SOIC / DFN / SMD / DIP Package

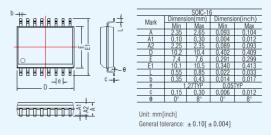
Features:

- Ultra-small chip scale DFN package / compact SMD package
- Baud rate up to 5Mbps
- The bus supports maximum 110 nodes
- ESD protection: IEC/EN61000-4-2 Contact ± 4KV perf. Criteria B
- Two-terminal isolation (input and output are mutually isolated), built-in isolated power supply bus protection
- Dual channels isolation (input and output are mutually isolated, two channels are mutually isolated)
- Compatible with the "ISO 11898-2" standard
- EN62368 approved

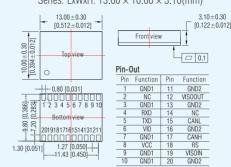


Product Program										
Model number	Power supply (VDC)	Baud rate	Nodes	Communication charecteristic	on _{Package}	Whether integrat power supply or r		Product Type	Markings	Datasheet
TDA51SCANHC	4.5-5.5	1Mbps	110	CAN	SOIC	YES	5000VAC	Single channel high-rate type	RoHS	
TD041SCANH	2.375-5.5, 4.75-5.25	40k-1Mbps	110	CAN	DFN	NO	3750VAC	Single channel high-rate type	RoHS	
TD041SCANFD	2.375-5.5, 4.5-5.5	40k-5Mbps	110	CANFD	DFN	NO	3750VAC	Single channel high-rate type	RoHS	
TD541SCANH	4.75-5.25	40k-1Mbps	110	CAN	DFN	YES	3000VDC	Single channel high-rate type	RoHS	
TDH541SCANH	4.75-5.25	40k-1Mbps	110	CAN	DFN	YES	5000VDC	Single channel high-rate type	KOHS	
TD541SCANFD	4.75-5.25	40k-5Mbps	110	CANFD	DFN	YES	3000VDC	Single channel high-rate type	Dalle	
TDH541SCANFD	4.75-5.25	40k-5Mbps	110	CANFD	SMD	YES	5000VDC	Single channel high-rate type	RoHS	
TD331SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	2500VDC	Single channel high-rate type	C€	■整7は ■
TD531SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	2500VDC	Single channel high-rate type	RoHS	
TD331SCANFD	3.15-3.45, 4.75-5.25	40k-5Mbps	110	CANFD	SMD	YES	2500VDC	Single channel general type	C€	
TD531SCANFD	3.15-3.45, 4.75-5.25	40k-5Mbps	110	CANFD	SMD	YES	2500VDC	Single channel general type	RoHS	
CTD331SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	2500VDC	Automotive grade single channel high-rate type	C€	
CTD531SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	2500VDC	Automotive grade single channel high-rate type	RoHS	
TD321SCAN	3.15-3.45, 4.75-5.25	5k-1Mbps	110	CAN	SMD	YES	3000VDC	Single channel general type	C€	
TD521SCAN	3.15-3.45, 4.75-5.25	5k-1Mbps	110	CAN	SMD	YES	3000VDC	Single channel general type	RoHS	
TD321SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	3000VDC	Single channel high-rate type	C€	
TD521SCANH	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	SMD	YES	3000VDC	Single channel high-rate type	RoHS	
TD322DCAN	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	DIP	YES	2500VDC	Dual channels general type	C€	
TD522DCAN	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	DIP	YES	2500VDC	Dual channels general type	RoHS	
TD301DCANHE	3.15-3.45, 4.75-5.25	20k-1Mbps	110	CAN	DIP	YES	2500VDC	Single channel high surge protective type	C€	
TD501DCANHE	3.15-3.45, 4.75-5.25	20k-1Mbps	110	CAN	DIP	YES	2500VDC	Single channel high surge protective type	RoHS	
TD301DCANH-W	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	DIP	YES	3000VDC	Single channel wake-up high-rate type	RoHS	
TD501DCANH-W	3.15-3.45, 4.75-5.25	40k-1Mbps	110	CAN	DIP	YES	3000VDC	Single channel wake-up high-rate type	None	

1 TDA51SCANHC Series: LxWxH: 10.40 × 10.50 × 2.65(mm)

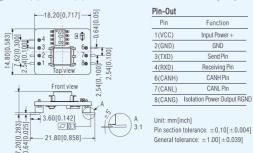


3 TD(H)541SCANH/TD(H)541SCANFD Series: LxWxH: $13.00 \times 10.00 \times 3.10$ (mm)

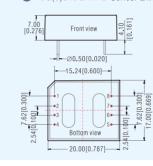


Unit: mm[inch] General tolerance: ± 0.10[± 0.004]

5 TD5(3)21SCAN(H) Series: LxWxH: 18.2×14.8×7.2(mm)



TD5(3)01DCANHE Series: LxWxH: 20.00 × 17.00 × 7.00(mm)



Pin	Function					
1(VCC)	Input Power+					
2(GND)	GND					
3(TXD)	TD_DCAN Send Pin					
4(RXD)	TD_DCAN Receiving Pin					
5(PE)	GND					
6(CANH)	TD_DCAN H Pin					
7(CANL)	TD_DCAN L Pin					
8(CANG) Isolation Power Output CANG						

General tolerance: ±0.50[±0.020]

Innut Power +

Receiving Pin

CANH Pin

CANI Pin

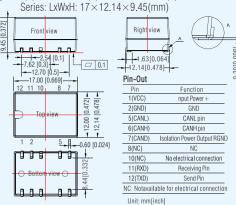
2 TD041SCANH/TD041SCANFD

0.30 [0.

Series: LxWxH: 10.00 × 10.00 × 1.6(mm)

0	1,60±0,30	<u>4</u> 5	VDD2SENSE RXD	1
Front view	[0.063±0.012]	- 6	TXD	1.
.0121 bassal	+	7	VDD1	1
+8.89 [0.350]+	1	8	GND1	1
H-1.27 (0.05d)		Pin-Ou	rt: TD(H)041S	CAN
12 3 4 5 6 7 8 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Pin	Function	P
28 Bottom view		1	NC	- (
851	-0.60 [0.024]	2	GND1	1
¬∾ 16151413121110 B	-R0.40 [R0.016]	3	GND1	1
	~nu.40 [nu.010]	4	VDD2SENSE	- 1
-11.27 [0.050] 8.89 [0.350]		5	RXD	- 1
Unit: mm[inch]		6	TXD	- 1
. ,		7_	VDD1	_ 1
General tolerance: ±	$0.10[\pm 0.004]$	8	GND1	1

4 TD5(3)31SCANH/TD(5)31SCANFD/CTD5(3)31SCANH



General tolerance: $\pm 0.25[\pm 0.010]$ 6 TD3(5)22DCAN Series: LxWxH: 20.00 × 17.00 × 7.00(mm)

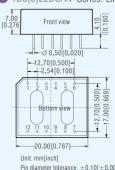
Pin-Out

1(VCC)

2(GND)

3(BXD1)

4(TXD1)



1005.	6(TXD2) TD_DCANSend Pin2
Britism view - 22	7(CANH2) CANH Pin2
7.00	8(CANL2) CANL Pin2
12 11 10 9 8 7 7	9(CANG2) Isolation Power Output2
	10(CANH1) CANH Pin1
20.00[0.787]	11(CANL1) CANL Pin1
Unit: mm[inch]	12(CANG1) Isolation Power Output RGND
Pin diameter tolerance: $\pm 0.10[\pm 0.004]$	
General tolerance: $\pm 0.50[\pm 0.020]$	

Pin section tolerance: ±0.10[±0.004]

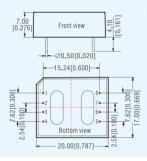
Input Power+

D DCAN Receiving Pin1

TD DCANSend Pin1

TD DCANReceiving Pin2

TD3(5)01DCANH-W Series: LxWxH: 20.00×17.00×7.00(mm)



Pin	Function
1(VCC)	Input Power+
2(GND)	GND
3(TXD)	TD_CAN Send Pin
4(RXD)	TD_CAN Receiving Pin
5(STB)	Standby contorl Pin
6(CANH)	TD CAN H Pin
7(CANL)	TD CAN L Pin
8(CANG)	Isolation Power Output

Pin diameter tolerance: ±0.10[±0.004] General tolerance: $\pm 0.50[\pm 0.020]$

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RS-485 Bus Isolated Transceiver Module SOIC / DFN Package

Features:

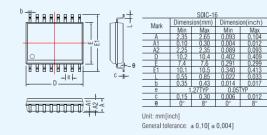
- Ultra-small, ultra-thin, chip scale DFN package
- Integrated high efficient isolated DC-DC converter (some series)
- Isolation voltage: 3000VDC/5000VDC
- Bus-Pin ESD protection up to 15kV(HBM)
- Baud rate up to 20Mbps
- Low communication delay
- Multiple protections
- Operating temperature: -40°C to +105°C
- Meet AEC-Q100 Standards
- EN62368 approved



Product Program										
Model number	Power supply (VDC)	Baud rate	Nodes	Communication charecteristics	Package	Whether integrated power supply or no		Product Type	Markings	Datasheet
TD041S485H	2.375-5.5, 4.5-5.5	1Mbps	256	485	DFN	NO	3750VAC	High-rate half-duplex	RoHS	
TD541S485H	4.75-5.25	1Mbps	256	485	DFN	YES	3000VDC	High-rate half-duplex	RoHS	
TDH541S485H	4.75-5.25	1Mbps	256	485	DFN	YES	5000VDC	High-rate half-duplex	RoHS	
TD041S485S-F	2.375-5.5, 4.5-5.5	20Mbps	256	485	DFN	NO	3750VAC	Full-duplex	RoHS	
TD541S485S-F	4.75-5.25	20Mbps	256	485	DFN	NO	3000VDC	Full-duplex	RoHS	
TDH541S485S-F	4.75-5.25	20Mbps	256	485	DFN	YES	5000VDC	Full-duplex	RoHS	
TD041S485H-A	2.375-5.5, 4.5-5.5	500kbps	256	485	DFN	NO	3750VAC	Automatic send/receive	RoHS	
TD541S485H-A	4.75-5.25	500kbps	256	485	DFN	YES	3000VDC	Automatic send/receive	RoHS	
TDH541S485H-A	4.75-5.25	500kbps	256	485	DFN	YES	5000VDC	Automatic send/receive	RoHS	
TD041S485S	2.375-5.5, 4.5-5.5	20Mbps	256	485	DFN	NO	3750VAC	Utral-high rate half-duplex	RoHS	
TD541S485S	4.75-5.25	20Mbps	256	485	DFN	NO	3000VDC	Utral-high rate half-duplex	RoHS	
TDH541S485S	4.75-5.25	20Mbps	256	485	DFN	YES	5000VDC	Utral-high rate half-duplex	RoHS	06 % 0 06 %

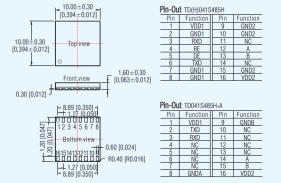
Package Dimensio

■ TDA51S485HC Series: LxWxH: 10.40 × 10.50 × 2.65(mm)



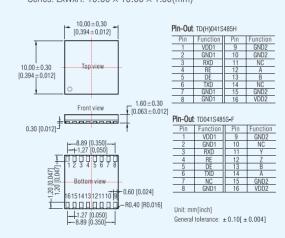
② TD041S485H, TD041S485H-A

Series: LxWxH: $10.00 \times 10.00 \times 1.60$ (mm)

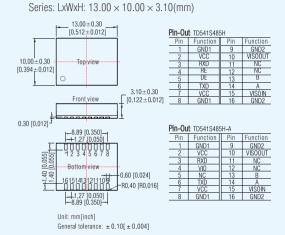


Unit: mm[inch] General tolerance: ± 0.10[± 0.004]

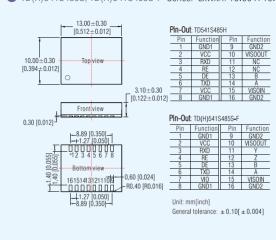
3 TD041S485S, TD041S485S-F Series: LxWxH: 10.00 × 10.00 × 1.60(mm)



4 TD(H)541S485H, TD(H)541S485H-A



⑤ TD(H)541S485S, TD(H)541S485S-F Series: LxWxH: 13.00 × 10.00 × 3.10(mm)



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RS-485 Bus Isolated Transceiver Module SMD/DIP Package

Features:

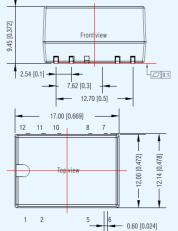
- Operating temperature: -40°C to +85°C
- Isolation voltage: 2500VDC/3000VDC/3750VAC
- Two-terminal isolation (input and output are mutually isolated), built-in isolated power supply bus protection
- Dual channels isolation (input and output are mutually isolated, two channels are mutually isolated)
- Serial Interface: TD3xxD485xx compatible with the UART port of +3.3V TD5xxD485xx compatible with the UART port of +5V
- Low power consumption (low power consumption RS485 series, quiescent current as low as 8mA)
- Isolated power output
- ESD protection: IEC/EN61000-4-2 Contact ± 4KV perf. Criteria B
- Ultra-small size, DIP/SMD package



Product Program										
Model number	Power supply (VDC)	Baud rate	Nodes	Communication charecteristics	Package	Whether integrated power supply or not	Isolation voltage	Product Type	Markings	Datasheet
TD331S485	3.15-3.45, 4.75-5.25	19.2kbps	64	485	SMD	YES	2500	General half-duplex	C€	
TD531S485	3.15-3.45, 4.75-5.25	19.2kbps	64	485	SMD	YES	2500	General half-duplex	RoHS	
TD331S485-L	3.15-3.45, 4.75-5.25	19.2kbps	16	485	SMD	YES	2500	Low power consumption half-duplex	C€	
TD531S485-L	3.15-3.45, 4.75-5.25	19.2kbps	16	485	SMD	YES	2500	Low power consumption half-duplex	RoHS	
TD331S485H	3.15-3.45, 4.75-5.25	150kbps	128	485	SMD	YES	2500	High-rate half-duplex	C€	
TD531S485H	3.15-3.45, 4.75-5.25	150kbps	128	485	SMD	YES	2500	High-rate half-duplex	RoHS	
TD331S485H-A	3.15-3.45, 4.75-5.25	150kbps	128	485	SMD	YES	2500	Automatic send/receive	C€	
TD531S485H-A	3.15-3.45, 4.75-5.25	150kbps	128	485	SMD	YES	2500	Automatic send/receive	RoHS	
TD331S485H-E	3.15-3.45, 4.75-5.25	500kbps	256	485	SMD	YES	2500	High-rate enhanced half-duplex	C€	
TD531S485H-E	3.15-3.45, 4.75-5.25	500kbps	256	485	SMD	YES	2500	High-rate enhanced half-duplex	RoHS	
TD321S485	3.15-3.45, 4.75-5.25	19.2kbps	64	485	SMD	YES	2500	General half-duplex	C€	
TD521S485	3.15-3.45, 4.75-5.25	19.2kbps	64	485	SMD	YES	2500	General half-duplex	RoHS	
TD321S485H	3.15-3.45, 4.75-5.25	200kbps	64	485	SMD	YES	3000	High-rate half-duplex	C€	
TD521S485H	3.15-3.45, 4.75-5.25	200kbps	64	485	SMD	YES	3000	High-rate half-duplex	RoHS	
TD321S485H-A	3.15-3.45, 4.75-5.25	500kbps	128	485	SMD	YES	3000	Automatic send/receive	C€	0.%%0 2.20
TD521S485H-A	3.15-3.45, 4.75-5.25	500kbps	128	485	SMD	YES	3000	Automatic send/receive	RoHS	6 30 H
TD321S485H-E	3.15-3.45, 4.75-5.25	500kbps	256	485	SMD	YES	3000	High-rate enhanced half-duplex	C€	
TD521S485H-E	3.15-3.45, 4.75-5.25	500kbps	256	485	SMD	YES	3000	High-rate enhanced half-duplex	RoHS	
TD322D485H-A	3.15-3.45, 4.75-5.25	120kbps	32	485	DIP	YES	2500	Two-way automatic send/receive	C€	
TD522D485H-A	3.15-3.45, 4.75-5.25	120kbps	32	485	DIP	YES	2500	Two-way automatic send/receive	RoHS	
TD301M485	3.15-3.45, 4.75-5.25	500kbps	64	485	DIP	YES	2500	High-rate enhanced half-duplex	C€	
TD501M485	3.15-3.45, 4.75-5.25	500kbps	64	485	DIP	YES	2500	High-rate enhanced half-duplex	RoHS	首為被

1 TD331/531S485, TD331/531S485-L, TD331/531S485H. TD331S/531485H-A. TD331S/531485H-E

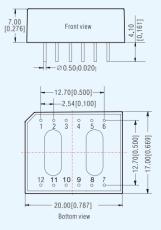
Series: LxWxH: 17.00x12.14x9.45(mm)



Pin-Out	
Pin	Function
1(VCC)	Input Power+
2(GND)	GND
5(B)	Bpin
6(A)	Apin
7(RGND)	Isolation Power Output RGND
8(V0)	Isolation Power Output VO
10(CON)	Send&Receiving Control Pin
11(RXD)	Receiving Pin
12(TXD)	Send Pin

Unit: mm[inch] Pin section tolerance: ±0,10[±0,004] General tolerance: ±0.25[±0.010]

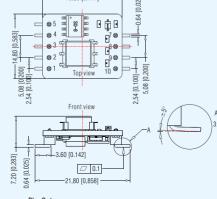
2 TD322/522D485H-A Series: LxWxH: 20.00 × 17.00 × 7.00(mm)



Pin-Out	
Pin	Function
1(VCC)	Input Power+
2(GND)	GND
3(TXD1)	Send Pin
4(RXD1)	Receiving Pin
5(TXD2)	TD_D485H-A Send pin 2
6(RXD2) TE	_D485H-A Receiving pin 2
7(A2)	TD_D485H-A A2 pin
8(B2)	TD_D485H-A B2 pin
9(SGND2)	Output GND
10(A1)	TD_D485H-A A2 pin
11(B1)	TD_D485H-A B1 pin
12(SGND1)	Output GND

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerance: +0.50[+0.020]

3 TD321/521S485, TD321/521S485H-A, TD321/521S485H-E, TD521/321S485H Series: LxWxH: 18.20×14.80×7.20(mm)

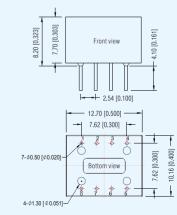


Pin-Out	
Pin	Function
1(VCC)	Input Power+
2(GND)	GND
3(TXD)	Send Pin
4(RXD)	Receiving Pin
5(CON)	Send&Receiving Control Pin
7(Vo)	+5V Isolation Power Output
8(B)	TD_D485H(-E)B Pin
9(A)	TD_D485H(-E)A Pin
10(GANG)	Isolation Power Output RGND

Pin diameter tolerance: $\pm 0.10[\pm 0.004]$ General tolerance: ±0.10[±0.039]

4 TD301/501M485 Series: LxWxH: 12.70 × 10.16 × 7.70(mm)

Pin-Out



I(II/D)	neceiving i iii
2(TXD)	Send Pin
3(GND)	GND
4(VCC)	Input Power+
5(RGND)	Isolation Power Output RGNI
6(A)	A Pin
7(B)	B Pin
8(V0)	Isolation Power Output VO
	h] tolerance: ±0.10[±0.004] ance: ±0.25[±0.010]

Function

• This catalog displays the latest products. If products in the catalog are not able to meet your needs, please contact our sales.

RS-232 Bus Isolated Transceiver Module DFN/SMD Package

Features:

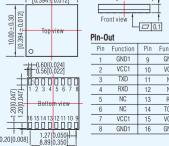
- Ultra-small, ultra-thin, chip scale DFN/SMD package
- Integrated high efficient isolated DC-DC converter (some series)
- Isolation voltage: 3000VDC/5000VDC
- Low communication delay
- Multiple protections
- Operating temperature: -40°C to +105°C
- EN62368 approved





Product Prograr										
Model number	Power supply (VDC)	Baud rate	Nodes	Communication charecteristics	Package	Whether integrated power supply or not	Isolation voltage	Product Type	Markings	Datasheet
TD041S232H	2.375-5.5, 4.5-5.5	120kbps	1	232	DFN	NO	3750VAC	Single channel high-rate type	RoHS	
TD541S232H	4.5-5.5	120kbps	1	232	DFN	YES	3000VDC	Single channel high-rate type		D:45.40 63.445
TDH541S232H	4.5-5.5	120kbps	1	232	DFN	YES	5000VDC	Single channel high-rate type	RoHS	
TD331S232H	3.15-3.45, 4.75-5.25	0-115.2kbps	1	232	SMD	YES	2500VDC	Single channel high-rate type	C€	
TD531S232H	3.15-3.45, 4.75-5.25	0-115.2kbps	1	232	SMD	YES	2500VDC	Single channel high-rate type	RoHS	
TD302D232H	3.0-3.6, 4.5-5.5	0-115.2kbps	2	232	SMD	YES	2500VDC	Dual channels high-rate type	RoHS	
TD502D232H	3.0-3.6, 4.5-5.5	0-115.2kbps	2	232	SMD	YES	2500VDC	Dual channels high-rate type	None	

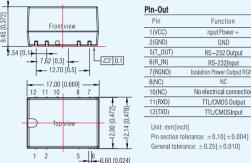
1 TD041S232H Series: LxWxH: 10.00 × 10.00 × 1.60(mm)



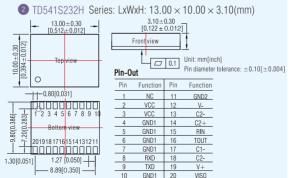




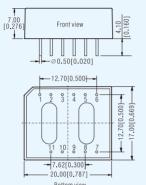




Pin	Function
1(VCC)	nput Power+
2(GND)	GND
5(T_0UT)	RS-232 Output
6(R_IN)	RS-232Input
7(RGND)	Isolation Power Output RGND
8(NC)	NC
10(NC)	No electrical connection
11(RXD)	TTL/CMOS Output
12(TXD)	TTL/CMOSInput



4 TD302/502D232H Series: LxWxH: 20.00 × 17.00 × 7.00(mm)



Pin	Function
1(VCC)	Input Power +
2(GND)	GND
3(TXD1)	Sending Pin 1
4(RXD1)	Receiving Pin 1
5(TXD2)	Sending Pin 2
6(RXD2)	Receiving Pin 2
7(R2IN)	RS-232 Input
8(T20UT)	RS-232 Output
9(R1IN)	RS-232 Input
10(T10UT)	RS-232 Output
11(RGND)	Isolation Power Output RGND
Unit: mm[inc	h]
Pin diameter	tolerance: ±0.10[±0.004]
General tolera	ance: ±0.50[±0.020]

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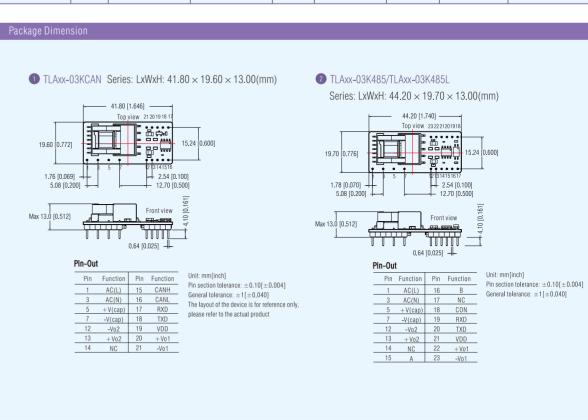
AC/DC Power Supply with Integrated Isolated Transceiver Module

Features:

- Wide input voltage range: 85-305VAC/100-430VDC
- Accepts AC and/or DC input (dual-use of same terminal)
- Isolation voltage 4000VAC
- Output short circuit and over-current protection
- High baud rate up to 1Mbps
- Connect up to 128 (485) / 110 (CAN) nodes on one bus
- Open frame, compact size, high power density
- Flexible design of peripheral circuit reduces layout issues



Product Program								
Model number	Power	Rated output voltage (V)	Rated output current l o (mA)	Efficiency (%) Typ.	Baud rate (kbps)	Nodes	Markings	Datasheet
TLA03-03KCAN	3W	3.3V/5V	500/25	55	5-1000	110	C€	
TLA05-03KCAN	3W	5V/5V	500/25	68	5-1000	110	RoHS	
TLA12-03KCAN	3W	12V/5V	200/25	70	5-1000	110	KONS	
TLA03-03K485	3W	3.3V/5V	500/25	55	500	128	C€	
TLA05-03K485	3W	5V/5V	500/25	68	500	128	RoHS	
TLA12-03K485	3W	12V/5V	200/25	70	500	128	Rons	
TLA03-03K485L	3W	3.3V/5V	500/25	55	19.2	128	C€	
TLA05-03K485L	3W	5V/5V	500/25	68	19.2	128	RoHS	
TLA12-03K485L	3W	12V/5V	200/25	70	19.2	128	KURS	



Protocol Conversion Module

Features:

- Supports two-way data communication between UART/SPI and CAN interface
- Built-in high efficiency isolated power supply, two-port isolation voltage (3kVDC)
- UART baud rate up to 921.6kbps
- SPI rate up to 1.5Mbps
- CAN baud rate up to 1Mbps
- Supporting transparent conversion, transparent tape identification conversion, custom protocol conversion
- Operating temperature: -40°C to +85°C
- The bus supports maximum 110 nodes
- Set isolation and ESD bus protection in one



		Pin-Ou	t	
	200	Pin	Mark	Function
Front view	10.20	1	VCC	Input Power+
		2	GND	GND
	- 1	3	RST	Reset Pin
- 00.50[0.020]	61	4	TXD	UART Send Pin
31.60[1.244]	4.10	5	RXD	UART Receive Pin
27,94[1,100]	'-	6	MODE	Mode Control Pin
		7	CTL1	SPI Master Control Pin 1
		10	CGND	Isolated Power Output CGN
1 2 3 4 5 6 7 101112	15.24[0.600] 20.30[0.799]	11	CANL	CANL Pin
	0.6	12	CANH	CANH Pin
Bottom view	24[18	SSEL	SPI Chip Select Pin
24232221201918	15.	19	CTLO	SPI Master Control Pin 0
9 9 9 9 9 9		20	INT	Slave Feedback Pin
2.54[0.100]		21	SCK	SPI SCK Pin
2.07[0.100]		22	MOSI	SPI MOSI Pin
Unit: mm[inch]		23	MIS0	SPI MISO Pin
Pin diameter tolerance: ±0.10[±0.0	04]	24	CFG	Configuration Pin

Product Program												
Model number	Power input (VDC)				SPI rate (Mbit/s)			Markings	Datasheet			
TD3USPCAN	3.3	35	35 110		0 - 1.5	5k-1M	110	C€				
TD5USPCAN	5	35	105	300 - 921600	0 - 1.5	5k-1M	110	RoHS				

Current Transducer

Features:

- Accuracy up to 0.8%
- Linearity up to 0.1%
- Low temperature drift
- Wide frequency bandwidth
- Optimized response time
- No insertion losses
- High immunity to external interference
- Withstand a symmetrical voltage change of $\pm 5\%$
- Meets UL 94V-0/IEC61010-1 standards

TLAx00-S



	Product Pro	gram				
Model number		Input voltage (VDC)	Effective value of primary current (A)	Primary current measurement range (A)	Effective value of secondary side current (m/	Turns ratio
	TLA100-S*	±12/±15	50	-100~+100	50	1:1000
	TLA200-S*	±12/±15	100	-200~+200	50	1:2000
	TLA300-S*	±12/±15	200	-300~+300	100	1:2000
	TLA500-S*	±12/±15	300	-500~+500	120	1:2500
	TLA800-S*	±12/±15	500	-800~+800	250	1:2000
	TLA1000-S*	±12/±15	300	-1000~+1000	142.5	1:3500



Package Dimension	
1 TLAX00-S Series: LxWxH: 31.60 × 20	0.30 × 10.20(mm)
50.0 [1.969] 50.0 [1.969] 60.0 [2.177] 60.0 [2.598] Front view	29.0 [1.142] 29.0 [1.142] 55.1 [2.169] Right view Pin Function 1 +Vc 2 OUT 3 +Vc 4 NC Unit: mm[inch] General tolerance: ±0.50[±0.020]

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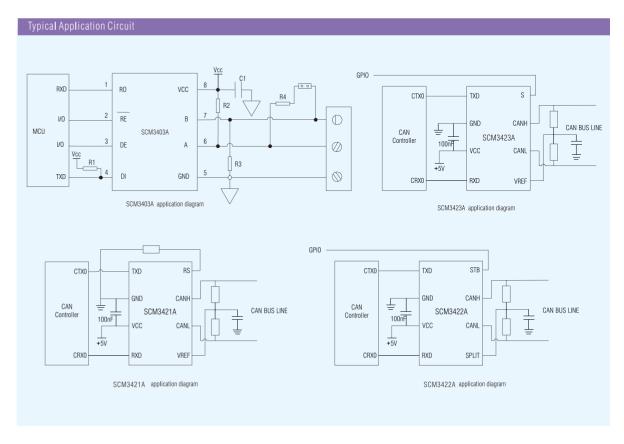
Industrial Bus Signal Interface Chips

Features:

- VCC voltage range: 4.5-5.5V/3.0-3.6V
- Half-Duplex
- Data bus: RS485 / CAN
- Baud rate up to 12Mbps
- Nodes: 256 (RS485) / 110 (CAN)
- Package: SOP-8, DFN 3X3



Product Pro	gram									
Model number	VCC voltage range (V)	Bus type	Duplex mode	Baud rate (Mbps)	No. of channels	Interface withstand voltage (V)	Dominant timed function	out Nodes	Package	Datasheet
SCM3403A	3.0-5.5	RS-485	Half-duplex	12	1	-36 to +36	/	256	SOP-8	
SCM3421A	4.5-5.5	CAN	Half-duplex	1	1	-36 to +36	No	110	SOP-8	
SCM3422A	4.5-5.5	CAN	Half-duplex	1	1	-40 to +40	Yes	110	SOP-8	
SCM3423A	4.5-5.5	CAN	Half-duplex	1	1	-40 to +40	Yes	110	SOP-8	



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EMC Filter Specialized for AC/DC Converter

Features:

- Integrated high efficiency isolated power supply
- Isolation voltage 3750VAC
- Baud rate up to 150Mbps
- Extremely low communication delay
- 0-4 channels direction selectable
- Operating temperature: -40°C to +125°C
- EN62368 approved





Product Prog	jram										
Model number		/hether integrated ower supply or not		Input voltage (VDC)	No. of reverse channels	e Output defau voltage	It Output high level voltag	Baud rate	Package	Markings	Datasheet
TDA51S-41HC	Quad channels high-rate digital isolator	Yes	5000	3.0-5.5	1	High	3.3/5V adjustable	150Mbps	SOIC16	C € RoHS	
TD541S-40H5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	0	High	5V	150Mbps	DFN		
TD541S-41H5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	1	High	5V	150Mbps	DFN		
TD541S-42H5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	2	High	5V	150Mbps	DFN	(€ RoHS	
TD541S-43H5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	3	High	5V	150Mbps	DFN		E 2000 2000
TD541S-44H5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	4	High	5V	150Mbps	DFN		
TD541S-40L5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	0	Low	5V	150Mbps	DFN		
D541S-41L5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	1	Low	5V	150Mbps	DFN	_	
D541S-42L5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	2	Low	5V	150Mbps	DFN	(€ RoHS	
D541S-43L5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	3	Low	5V	150Mbps	DFN		国 经数据证
TD541S-44L5	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	4	Low	5V	150Mbps	DFN		
TD541S-40H3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	0	High	3.3V	150Mbps	DFN		
D541S-41H3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	1	High	3.3V	150Mbps	DFN		
TD541S-42H3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	2	High	3.3V	150Mbps	DFN	(€ RoHS	
TD541S-43H3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	3	High	3.3V	150Mbps	DFN		ENNAGES
TD541S-44H3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	4	High	3.3V	150Mbps	DFN		
TD541S-40L3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	0	Low	3.3V	150Mbps	DFN		
D541S-41L3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	1	Low	3.3V	150Mbps	DFN		□ ‰&□
D541S-42L3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	2	Low	3.3V	150Mbps	DFN	(€ RoHS	
D541S-43L3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	3	Low	3.3V	150Mbps	DFN		
TD541S-44L3	Quad channels high-rate digital isolator	Yes	3750	4.75-5.25	4	Low	3.3V	150Mbps	DFN		

For the package dimension, please visit $\underline{\text{www.mornsun-power.com}}$ to check the datasheet.

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Features:

- Greatly improve EMS performance when used with Mornsun AC/DC power supply
- Enable EMI performance to meet requirements of CISPR22/EN55022 CLASS B standard
- Operating temperature: -40°C to +85°C
- Input voltage range: 85-305VAC
- Compact size, cost-effective
- Optional packages: PCB mounting, chassis mounting, DIN-Rail mounting



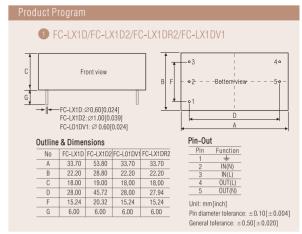


A4S DIN-Rail Mounting

range(VAC) (A) (max) FC-LX1D 85-305 ±2KV/±4KV Surge: ±2KV/±6KV FC-LX1D2 85-305 Surge: ±2KV/±4KV FC-LX1DR2 85-305 0.2 FC-LX1DV1 85-305 ±1KV/±2KV



2. Series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting.



EMC Filter Specialized for DC/DC Converter

Features:

- Operating temperature: -40°C to +85°C
- Enable EMI performance to meet requirements of CISPR22/EN55022 CLASS B standard
- Meets the requirements of surge level of $\pm 2KV/4KV$ (level four)
- Meets IEC/EN61000-4 and CISPR32/EN55032 standards
- Optional packages: PCB mounting, chassis mounting, DIN-Rail mounting



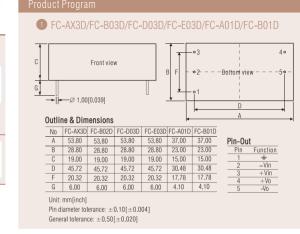
A2C Chassis Mounting

A4S DIN-Rail Mounting

Product Program					
		Max. output power (W)	Outstanding features	Markings & Datasheet	
FC-AX3D	10-36	30W			
FC-B02D	18-75	30W	Reverse voltage protection and	nrotection and	RoHS
FC-D03D	18-36	30W	slow start-up function	EURS (1886)	
FC-E03D	36-75	30W			
FC-A01D	9-36	1A	Small volume	RoHS RoHS	
FC-B01D	18-75	1A	Siliali Volume	RONS #	

Note: 1. Used with DC/DC converter.

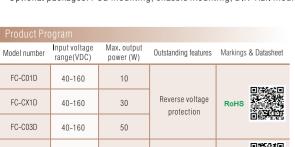
2. Series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting.



Pulse Group Suppressor Specialized for DC/DC Converter

Features:

- Improve EMI & EMS performance of 10-100W railway power supply
- Enable the railway power supply to meet requirements of EN50155 standard
- Operating temperature: -40°C to +85°C
- Efficiency up to 98%
- Meet IEC/EN61000-4 and CISPR32/EN55032 standards
- Optional packages: PCB mounting, chassis mounting, DIN-Rail mounting

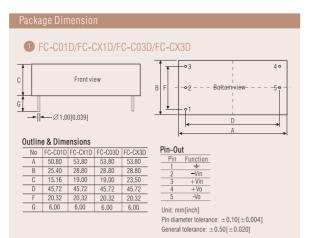


Note: Series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting.

100



A4S DIN_Rail Mounting



Features:

- Improve pulse group suppressor performance of 0-80V wide input DC/DC converter
- Enable MORNSUN DC/DC converter to meet \pm 4KV requirements of IEC/EN61000-4-4
- . Compact size, cost-effective
- Operating temperature: -40°C to +85°C
- Attenuation rate up to 30dB
- Restrain line disturb of DC power source
- Optional packages: PCB mounting, chassis mounting, DIN-Rail mounting

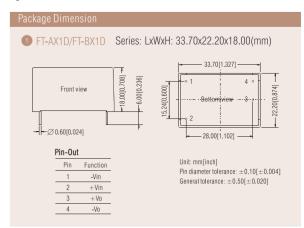


A2S Chassis Mounting

A4S DIN-Rail Mounting

Product Program						
Model number	Input voltage range(VDC)	Nominal current (A) (MAX)	Outstanding features	Markings & Datasheet		
FT-AX1D	0-40	1.5	Meet ±4KV requirements of pulse	DISEMBLE ROHS TO SELECT		
FT-BX1D	0-80	1.5	group suppressor	Rons 13.		

- 1 Enable MORNSLIN DC/DC converter to meet + 4KV requirements of IEC/EN61000-4-4
- 2. Series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting.



EMI Filter

66-160

Specialized for DC/DC Converter

Features:

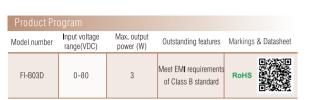
FC-CX3D

- Improve EMI performance of 0-80V wide input voltage DC/DC converter with under 3A input current
- Enable MORNSUN DC/DC converter to meet requirements of EN55022 Class B standard
- Compact size, cost-effective
- Operating temperature: -40°C to +85°C
- Attenuation rate up to 20dB
- Restrain line disturb of DC power source
- Optional packages: PCB mounting, chassis mounting, DIN-Rail mounting

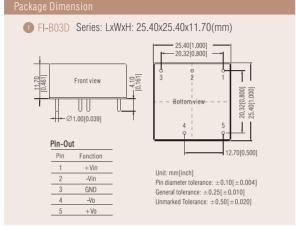


A2S Chassis Mounting

A4S DIN-Rail Mounting



- 1. The use of a EMI filter enables MORNSUN DC/DC converter with under 3A input current to meet requirements of EN 55022 Class B standard.
- 2. Series with suffix "A2S" are chassis mounting, with suffix "A4S" are DIN-Rail mounting.



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Surge Protection Module 485-AB Bus

Features:

FS-TD01D

- Suppress signal port lightning surge
- Enable MORNSUN RS485 module to meet ± 2 KV/ ± 4 KV surge level of IEC/EN61000-4-5

115.2kbps

Markings & Datashe

Compact size, cost-effective

Operating Model number voltage (VDC) voltage (VDC)

0-5

± 4V (12Ω internal resistance)

• Impact anti - current: \leq 1KA (8/20 μ s simulated lightning waveforms)

Clamping Nominal current Data Rate

≤0.1

1. Enable RS485 modules to meet surge level of IEC/EN61000-4-5 \pm 2KV (2 Ω internal resistance) /



	Package Dimension
eet	1 FS-TD01D Series: LxWxH: 19.50x12.50x9.80(mm) Front view Front view 7 100 27 1 100 1 100 100 100 100 100 100 100 10
	Pin Out Unit: mm[inch] 1 A (out) Output 485 BUS A Pin section tolerance: ±0.10[±0.004] 2 B (out) Output 485 BUS A General tolerance: ±0.25[±0.010] 3 B (in) Input 485 BUS A Unmarked Tolerance: ±0.50[±0.020] 4 PE Protective Earth 5 A (in) Input 485 BUS A

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Common Mode Filter

Features:

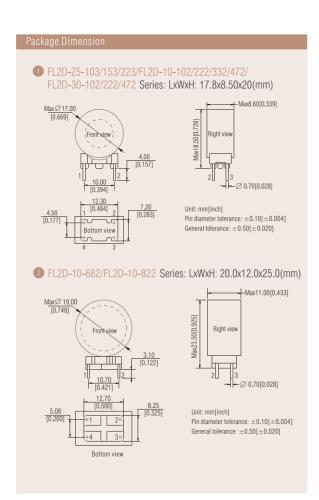
- Compact size
- Good temperature characteristic
- Multiple inductances available



FL2D-xx-xxx

RoHS	
	R 263

Product Progra	am			(1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Model number	Inductance (µ H)	Current (A) (max)	DCR (mΩ)	Weight (g)
FL2D-Z5-103	10000*2	0.5	500*2	4.5
FL2D-Z5-153	15000*2	0.5	600*2	4.5
FL2D-Z5-223	22000*2	0.5	650*2	4.5
FL2D-10-102	1000*2	1	70*2	4.5
FL2D-10-222	2200*2	1	90*2	4.5
FL2D-10-332	3300*2	1	100*2	4.5
FL2D-10-472	4700*2	1	140*2	4.5
FL2D-30-351	350*2	3	30*2	3.9
FL2D-30-102	1000*2	3	40*2	4.5
FL2D-30-222	2200*2	3	50*2	4.5
FL2D-30-472	4700*2	3	70*2	4.5
FL2D-10-682	6800*2	1	160*2	6.5
FL2D-10-822	8200*2	1	180*2	6.5
FL2D-30-103	10000*2	3	50*2	13.8
FL2D-A2-202	2000*2	12	145*2	25.2



Signal Conditioning Module Signal Self-driving Type

Features:

- Isolation voltage 2500VDC/60s
- Two-end power supply, two-port isolation (signal input and signal output)
- Frequency response ≥ 2kHz
- Full and zeros adjustment functions
- High linearity of 0.1% Full Scale
- Extremely low-temperature coefficient: 50PPM/°C (within -40°C to +85°C)
- Compact size SMD package

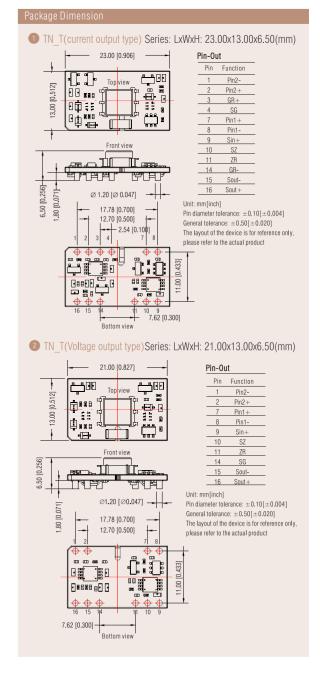
TN_T





			i a sa	
Model number	Input power 1 / Input power2	I nput signal	Output signal	
TN555T		0-10V	0-10V	
TN655T	12V/12V	0-5V	0-10V	
TN755T		0-2.5V	0-10V	
TN565T		0-10V	0-5V	
TN575T		0-10V	0-2.5V	
TN875T		0.5-2.5V	0-2.5V	
TN865T		0.5-2.5V	0-5V	
TN511T		0-10V	4-20mA	
TN611T		0-5V	4-20mA	
TN711T	40)((45)(0-2.5V	4-20mA	
TN521T	12V/15V	0-10V	0-20mA	
TN621T		0-5V	0-20mA	
TN721T		0-2.5V	0-20mA	





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Signal Conditioning Module Active High Precision Positive Signal

Features:

- Isolation voltage 2000VAC/60s
- Integrated power supply, two-port isolation (signal input and signal output)
- Frequency response ≥ 2kHz
- Full and zeros adjustment functions
- High linearity of 0.1% Full Scale
- Low ripple & noise: <30mVpp, 20MHz
- Extremely low-temperature coefficient: 50PPM/°C (within -40°C to +85°C)
- Compact size: SMD16 package (21.00x14.50x6.40mm)









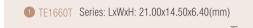
TE T

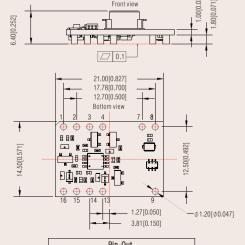
_				363
Model number	Power supply (VDC)	Input signal	Output signal	Isolated pow output
TE4CCOT	-	4.20mA	0.57	None

0-5V

0-5V

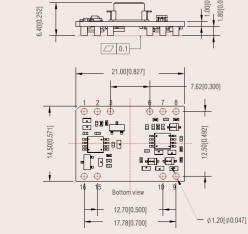
TE6660T





PIN-OUT				
Pin	Designation	Function		
1 Sout+ 2 Sout-		Signal output(+)		
		Signal output(-)		
3	SG	Gain regulation		
4	SZ	Zero regulation		
7	Sin-	Signal input(-)		
8	Sin+	Signal input(+)		
9	NC	No function pin		
13	SZ-	Zero auxiliary regulation(-)		
14	SZ+	Zero auxiliary regulation(+)		
15	Pin-	Power input(-)		
16	Pin+	Power input(+)		
NC: Notavailable for electrical connection				

Pin diameter tolerances: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.5[\pm 0.020]$ The layout of the device is for reference only, please refer to the actual product. 2 TE6660T Series: LxWxH: 21.00x14.50x6.40(mm)



	PIN-OUT					
Pin	Designation	Function				
1	Sout+	Signal output(+)				
2 Sout-		Signal output(-)				
3	SG	Gain regulation				
6	SZ	Zero regulation				
7	Sin-	Signal input(-)				
8	Sin+	Signal input(+)				
9	SZ+	Zero auxiliary regulation(+)				
10	SZ-	Zero auxiliary regulation(-)				
15 Pin-		Power input(-)				
16	Pin+	Power input(+)				

Pin diameter tolerances: ±0.10[±0.004] General tolerances: ±0.5[±0.020]

The layout of the device is for reference only, please refer to the actual product.

Features:

- Isolation voltage 2000VDC/60s
- Two-port isolation (signal input and signal output)
- Frequency response ≥ 2kHz
- Full and zeros adjustment functions

Power supply

24

15

12

24

24

15

12

12

24

24

12

24

24

24

24

24

24

12

- High linearity of 0.1% Full Scale
- Extremely low-temperature coefficient: 50PPM/°C (within -40°C to +85°C)

Input signal

0.107

0-10V

0-10V

0-10V

0-51/

0-5V

0-5V

0-5V

0-5V

4-20mA

0-20mA

0-20mA

0-5V

0-1V

Output signal

0-10V

0-10V

0-10V

0-5V

0-51/

0-5V

0-5V

0-5V

0-5V

0-10V

0-10V

0-10V

0-5V

0-5V

0-5V

0-5V

1-5V

1-5V

1-5V

0-2 5V

0-2.5V

0-3.3V

0-3.3V

0-1V

0-10V

0-5V

0-3.3V

• DIP package

Model number

TE5534N

TE5544N

TE5554N

TE5634N

TE6634N

TF6644N

TE6650N

TE6654N

TF6664N TE1533N

TE1530N

TE1550N

TF1633N

TE1630N

TE1650N

TE1660N

TF1430N

TE1433N

TE1450N

TE1S34N-2.5

TF1S60N-2.5 TE1S60N-3.3

TE1S65N-3.3

TFSS64N-1-1

TE6S6SN-3.3-9

TF2530N

TE2650N

TE N

C€ RoHS



15V

15V

15V

15V 15V

15V

15V

15V

24V

None

None

24V

None

None

None

None

24V

None

15V

None

None 12V

15V

None

None

None

TE	_A	N



Model number	Power supply (VDC)	I nput signal	Output signal	Isolated power output
TE5530AN	24	-10Vto10V	0-0V	None
TE5650AN	12	-10Vto10V	0-5V	None
TE6630AN	24	-5Vto5V	0-5V	None
TE6650AN	12	-5Vto5V	0-5V	None

TE_CN





				の ので発表する
Model number	Power supply (VDC)	I nput signal	Output signal	Isolated power output
TE5540CN	15	± 10V	± 10V	None
TE5550CN	12	±10V	±10V	None
TE6640CN	15	±5V	±5V	None
TE6650CN	12	±5V	±5V	None

TERA AN



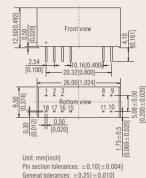
I E IVI_AN		(E R	oHS	
Product Progran	n			
Model number	Power supply (VDC)	Input signal	Output signal	Isolated power output
TEM5630AN	24	±75mV	0-5VDC	None
TEM6650AN	12	±100mV	0-5VDC	None
TEM6640AN	15	±100mV	0-5VDC	None

TEM_CN



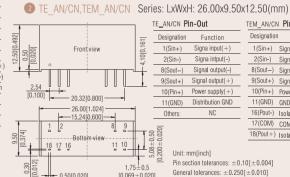
r iouuci r iogiai				国(33/5/252)
Model number	Power supply (VDC)	I nput signal	Output signal	Isolated power output
TEM4540CN	15	±50mV	±10V	None
TEM6540CN	15	±100mV	±10V	None
TEM6640CN	15	±100mV	±5V	None
TEM7650CN	12	±200mV	±5V	None

1 TE N Series: LxWxH: 26.00x9.50x12.50(mm)



	Pin-Out			
	Designation	Function		
	1(Sout+)	Signa output(+)		
	2(Sout-)	Signa output(-)		
	3(SG)	Gain regulation		
	8(Sin-)	Singnal input(-)		
	9(Sin+)	Singnal input(+)		
_	10(Pout+)	Isolation power output(+		
070	11(Pout-)	Isolation power output(-		
1	*15(ZR)	Zero auxiliary regulation		
7.70	16(SZ)	Zero regulation		
_	17(Pin-)	Power input(-)		
	18(Pin+)	Power input(+)		

Note:the power supply of 24V withou 15 Pin



Designation						
1(Sin+)	Signal input(+)					
2(Sin-)	Signal input(-)					
8(Sout-)	Signal output(-)					
9(Sout+)	Signal output(+)					
10(Pin+)	Power input(+)					
11(GND)	GND					
16(Pout-)	Isolation power output(-)					
17(COM)	COM					
18(Pout+)	Isolation power output(+)					
s: ±0.10[±0.004]						
	1(Sin+) 2(Sin-) 8(Sout-) 9(Sout+) 10(Pin+) 11(GND) 16(Pout-) 17(COM)					

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Signal Conditioning Module Active High Precision Output Signal

Signal Conditioning Module Active High Precision Signal (Versatile Type)

Features:

- Isolation voltage 2000VAC/60s
- Two-port isolation (signal input and signal output)
- Frequency response ≥ 2kHz
- Full and zeros adjustment functions
- High precision & linearity: 0.1% F.S.
- Extremely low-temperature coefficient: 50PPM/°C (within -40° C to $+85^{\circ}$ C)







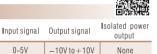
Product Program				
Model number Power supply (VDC)		Input signal	Output signal	Isolated power output
TF5134N	24	0-10V	4-20mA	15
TF5234N	24	0-10V	0-20mA	15
TF5534N	24	0-10V	0-10V	15
TF5554N	12	0-10V	0-10V	15
TF5634N	24	0-10V	0-5V	15
TF6134N	24	0-5V	4-20mA	15
TF6234N	24	0-5V	0-20mA	15
TF6250N	12	0-5V	0-20mA	None
TF6254N	12	0-5V	0-20mA	15
TF6664N	5	0-5V	0-5V	15
TFS160N-3.3 RoHS	5	0-3.3V	4-20mA	None



Model number

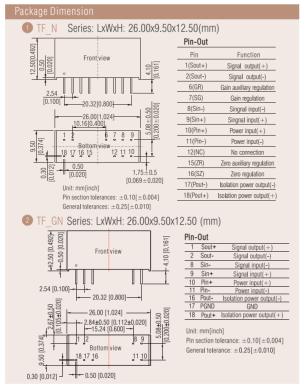
TF6550GN





Note: Customization is accentable





Signal Conditioning Module

Active High Precision PWM Output Signal

Features:

- Isolation voltage 2000VAC/60s
- Two-port isolation (signal input and signal output)
- Low ripple & noise (≤30mVpp, 20MHz)

Power supply

- High linearity of 0.1% Full Scale
- Extremely low-temperature coefficient: 50PPM/°C (TYP, within -40° C to $+85^{\circ}$ C)
- Digital signal (PWM)



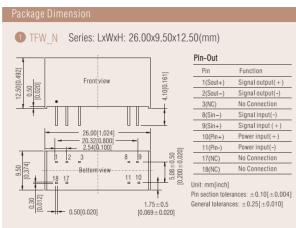




Product Prograi				回旋逐步经
Model number	Power supply (VDC)	Input signal	Output signal	Isolated power output
TFW260N	5	0-100	0-20mA	None
TFW560N	5	0-100	0-10V	None
TFW660N	5	0-100	0-5V	None

Note: Over nominal loop power voltage may damage modules.





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Isolation voltage: 2500VAC/60s

Features:

T P

Model number

T1130P

T1133P

T1430P

T1433P

T1450P

T1530P

T1533P

T1630P

T1633P

T1650P

T2230P

T2233P

T2633P

T2650P

T4130P

T4630P

T5130P

T5133P

T5150P

T5153P

T5533P

T5535P

T5544P

T5550P

T5555P

T5230P **(€**

T5530P **C €**

T1S33P-2 5

- Four-port isolation (T P), three-port isolation (T CP)
- High precision & linearity: 0.1% F.S.

Power suppl

24

24

24

24

12

24

24

24

24

12

24

24

24

24

12

24

24

24

24

12

24

24

24

24

15

12

• Extremely low-temperature coefficient: 50PPM/ $^{\circ}$ C (within -40 $^{\circ}$ C to +85 $^{\circ}$ C)

Output signal

4-20mA

4-20mA

1-5V

1-5V

1-5V

0-10V

0_10V

0-5V

0-5V

0-5V

0-2 5V

0-20mA

0-20mA

0-5V

0-5V

4-20mA

1_2∩m∆

4-20mA

4-20mA

4-20mA

0-20mA

0-10V

0-10V

0-10V

0-10V

0-10V

0-10V

0-5V

0-5V

- Signal output: please refer to the product selection guide
- Low cost, compact package, high reliability, convenient to use

Innut sinnal

4-20mA

4-20m4

4-20mA

4-20mA

4-20mA

4-20mA

4-20mA

4-20mA

1_2∩m∆

4-20mA

0-20mA

0-20mA

∩_2∩m∆

0-20mA

1-5V

1-5V

0-10V

0-10V

0-10V

0-10V

0-10V

0-10V

0-10V

0_10V

0-10V

0-10V

0-10V

0-10V





Isolated power

None

24

24

None

None

None

24

None

24

24

None

None

24

24

None

None

Mone

24

24

None

None

24

15

None

None

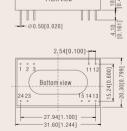
12

	Model number	Power supply (VDC)	Input signal	Output signal	Isolated power output
	T6630CP	24	± 5V	± 5V	None
	T5530CP	24	±10V	±10V	None
	T6660CP	5	±5V	±5V	None
	T5540CP	15	±10V	±10V	None
	T6640CP	15	±5V	±5V	None
	T5550CP	12	±10V	±10V	None
	T6650CP	12	±5V	±5V	None
ı					

Note: Customization is acceptable



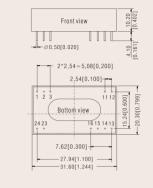




Pin	Vo	lo	Function
1	Sout-	Sout-	Signal output(-)
2	No Pin	Sout+	Signal output(+)
3	Sout+	No Pin	Signal output(+)
11	Sin+	Sin+	Singnal input(+)
12	Sin-	Sin-	Singnal input(-)
13	Pout-	Pout-	Isolation power output-
14	Pout+	Pout+	Isolation power output+
15	NC	NC	No Connection
23	Pin+	Pin+	Power supply(+)
24	Pin-	Pin-	Power supply(-)
NO. N.	o functio	n nin	

Unit: mm[inch]
Pin diameter tolerances: ±0,10[±0,004]

2 TxxxxCP Series: LxWxH: 31.60x20.30x10.20(mm)



Pin-Ui	'in-Out						
Pin	Vo	lo	Function				
1	Sout-	Sout-	Signal output(-)				
2	NC	Sout+	Signal output(+)				
3	Sout+	NC	Signal output(+)				
11	Sin+	Sin+	Singnal input(+)				
12	Sin-	Sin-	Singnal input(-)				
13	NC	NC	No Connection				
14	NC	NC	No Connection				
15,16	NC	NC	No Connection				
23	Pin+	Pin+	Power supply(+)				
24	Pin-	Pin-	Power supply(-)				
NO No	f						

Unit: mm[inch] Pin diameter tolerances: $\pm 0.10[\pm 0.004]$ General tolerances: $\pm 0.50[\pm 0.020]$

Signal Conditioning Module Active High Precision (mV-class Input) Signal

Signal Conditioning Module Passive High Precision Signal

Features:

- Three-port isolation (signal input, signal output and power supply)
- High precision & linearity: 0.1% F.S.
- Isolation voltage: 2500VDC
- Extremely low-temperature coefficient: 35PPM/°C(within -25°C to +71°C)
- Low cost, compact size, high reliability, convenient to use



TM P

Model number TM1130P

TM3130P

TM4130P

TM4150P

TM5230P

TM6130P

TM2550P

TM2650P

TM3650P

TM//530P

TM4630P

TM4650P

TM4660P

TM5530P

TM5630P

TM5650P

TM6530P

TM6630P

TM6650P

TM5130P

TM6660P

TM6S50P-3.3

TM2S60P-2.5

24

24

12

12

5

24

0-100mV

0-100mV

0-100mV

0-20mV

0-75mV

0-100mV

TM4S50P-2.5





0-10V

0-5V

0-5V

0-3.3V

0-2.5V

4-20mA

0-5V

None

None

None

None

None

None

TM CP



None

Model number	Power supply (VDC)	I nput signal	Output signal	Isolated power output
TM1630CP	24	± 10mV	± 5V	None
TM2630CP	24	±20mV	±5V	None
TM4630CP	24	±50mV	±5V	None
TM5630CP	24	±75mV	±5V	None
TM6630CP	24	±100mV	±5V	None
TM7650CP	12	±200mV	±5V	None
TM4530CP	24	±50mV	±10V	None

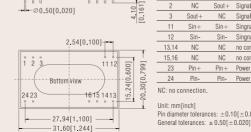
 ±75 mV

±100mV

+10V

±10V

1 TM P/TM CP Series: LxWxH: 31.60x20.30x10.20(mm)



	Vo	lo	Function
1	Sout-	Sout-	Signal output(-)
2	NC	Sout+	Signal output(+)
3	Sout+	NC	Signal output(+)
11	Sin+	Sin+	Singnal input(+)
12	Sin-	Sin-	Singnal input(-)
13,14	NC	NC	no connection
15,16	NC	NC	no connection
23	Pin+	Pin+	Power supply(+)
24	Pin-	Pin-	Power supply(-)
NC: no co	nnection.		

Pin diameter tolerances: $\pm 0.10[\pm 0.004]$

Features:

- Isolation voltage: 3000VDC
- Two-port isolation (signal input and signal output)
- High precision & linearity: 0.1% F.S.
- Extremely low-temperature coefficient: 35PPM/°C
- Low voltage-drop: 3V Tvp. (20mA input)
- High reliability (MTBF > 500,000 hours)

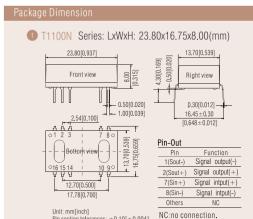
Product Program							
Model number	Power supply	I nput signal	Output I s signal	olated pow output	rer Channel	Marking	gs & Datashee
T1100N	None	4-20mA	4-20mA	None	1	C€ RoHS	
T1100L	None	4-20mA	4-20mA	None	1	C€ RoHS	
T1100L-F	10-24VDC	4-20mA	4-20mA	None	1	C€ RoHS	

2 T1100L/L-F Series: LxWxH: 32.00x7.90x14.50(mm)

Note: Over nominal loop power voltage may damage modules.







Pin section tolerances: ±0,10[±0,004] General tolerances: ±0.25[±0.010]

T1100L Pin-Out 1/lin+) Signal intout(+) 9.10(lout-) Signal output(-)

11,12(lout+) Signal output(+)

T1100L	
Pin	Function
1(Vin-	+) Power intput
2(10) Current outpu
9,10(I	in) Current intpu
11 12/\	(OUT) Power output

Signal Conditioning Module Two-wire Loop Power Supply Signal (With HART)

Features:

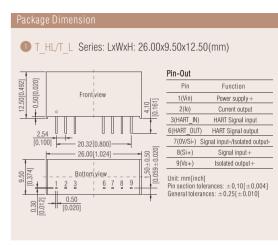
- 4-20mA output loop stealing, 3.3V regulated output (loop power)
- Isolation voltage: 2000VAC/1mA/60s
- High precision & linearity: 0.1% F.S.
- Extremely low-temperature coefficient: 50PPM/℃
- HART compatible
- Convert digital signal (PWM) into 4-20mA (TW147HL)

Product	Program				
Model	Power supply input	/ I nput	Output I	solated powe	er Markings &
number		signal	signal	output	Datasheet
T797HL	15-24V	0-2.5V	3.7-22mA	3.3V	RoHS
T747HL	10-24V	0-2.5V	3.7-22mA	3.3V	
T747L	10-24V	0-2.5V	3.7-22mA	3.3V	CE RoHS

Note: Customization is acceptable. T747L is without HART.







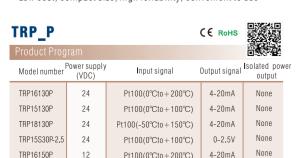
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Features:

- Two-wire, three-wire, four-wire pt100 RTD signal input
- Isolation voltage: 2000VAC
- High precision & linearity: 0.1% F.S.

24

- Extremely low-temperature coefficient: 50PPM/°C (within -40°C to +85°C)
- International standard signal output: 4-20mA/0-5V/0-10V etc.
- Low cost, compact size, high reliability, convenient to use



TRP HN

TRP17130P

TRP17150P

C€ RoHS

Power supply Model number (VDC) TRP10I7HN 3.3 Pt100(-200°Cto 850°C)

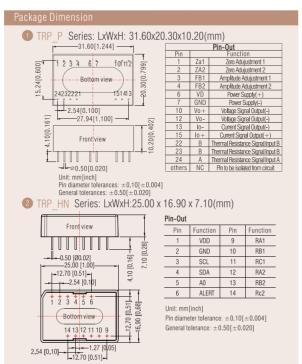
Pt100(0°Cto+500°C)

Pt100(0°Cto+500°C)

Note: Customization is acceptable



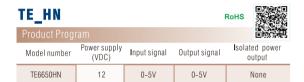




Signal Conditioning Module Active High Precision High Isolation Signal

Features:

- Suitable for electric power and railway applications
- Isolation voltage: 4000VAC/60s
- Planar transformer bare board technology
- Two-port isolation (signal input and signal output)
- Low ripple & noise (≤30mVpp, 20MHz)
- Extremely low-temperature coefficient: 50PPM/°C (TYP., within -40° C to $+85^{\circ}$ C)



Note: Customization is acceptable.



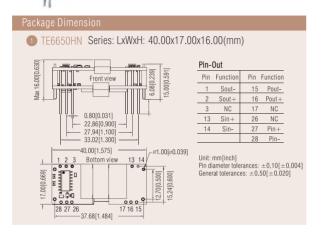
None

None

4-20mA

4-20mA

(Note: this picture is a design sketch, for the final picture please subject to the actual product.)



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Features:

- Operating temperature: -40°C to +85°C
- Efficiency up to 97%
- Constant current mode, great power output
- Analogue dimming + PWM dimming
- Remote ON/OFF

KC24H-700R(X1/X2/X3)

Continuous short-circuit protection

KC24H-R			(€ RoHS	
Product Program				
Model number	Input voltage (Nominal)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (MAX)
KC24H-300R(X1/X2/X3)		3.3-36	0-300	95
KC24H-350R(X1/X2/X3)		3.3-36	0-350	95
KC24H-500R(X1/X2/X3)	24(5.5-46)	3.3-36	0-500	95
KC24H-600R(X1/X2/X3)		3.3-36	0-600	95

- 2. Series with a suffix X1 such as KC24H-300RX1, this product is a five-pin product only with the function of analygous dimming.

3.3-36

0-700

2. Series with a suffix X2 such as KC24H-300RX, this product is a five-pin product only with the function of PWM dimming.
4. Series with a suffix X3 such as KC24H-300RX3, this product is a five-pin product only with the function of PWM dimming.

KC24W

RUZ4W			C Kons	
Product Program				
Model number	Input voltage (Nominal)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (MAX)
KC24W-300(X1/X2/X3)		3.3-36	0-300	96
KC24W-350(X1/X2/X3)		3.3-36	0-350	96
KC24W-500(X1/X2/X3)	24(5.5-48)	3.3-36	0-500	96
KC24W-600(X1/X2/X3)		3.3-36	0-600	96
KC24W-700(X1/X2/X3)		3 3-36	0-700	96

- l. Series without a suffix such as KC24H-300R, this product is a four-pin product without the functions of analogue dimming and PWM di Series with a suffix X1 such as KC24H-300RX1, this product is a five-pin product only with the function of analogue dimmir
- Series with a suffix X2 such as KC24H-300RX2, this product is a five-pin product only with the function of PWM dimming.
- 4. Series with a suffix X3 such as KC24H-300RX3, this product is a six-pin product with the functions of analogue dimming and PWM dimming

KC24H-1000

C€ RoHS



roduct Program				回答系统
Model number	Input voltage (Nominal)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (MAX)
C24H-1000(X1/X2/X3)	24(5.5-48)	3.3-36	1000	97

rouse.

1. Series without a suffix such as KC24H-300R, this product is a four-pin product without the functions of analogue dimming and PWM dimm 2. Series with a suffix X1 such as KC24H-300RX1, this product is a five-pin product only with the function of analogue dimming.

(VDC)

3.3-36

3. Series with a suffix X2 such as KC24H-300BX2, this product is a five-pin product only with the function of PWM dimming.

KC24H-1200

Model number

C€ RoHS

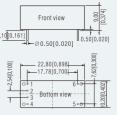


KC24H-1000(X1/X2/X3) KC24JT-R3

KC24JT-R3			C€ RoHS	
Product Program				0.00
Model number	Input voltage	Output voltage	Output curren	t Efficiency
	(Nominal)	(VDC)	(mA)	(%) (MAX)
KC24JT-300R3	24(6-36)	3.3-36	300	91/94
KC24JT-700R3		3.3-36	700	91/94

24(5.5-48)

1 KC24H-R Series: LxWxH: 22.80x10.20x9.00(mm)



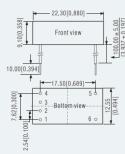
Pin	Function	Comment
1	GND	Do not connect to-Vi
2	ON/OFF/PWM	Leave open if not us
3	Analog dimming	Leave open if not us
4	Vin	DC Supply
5	+Vout	LED Anode connecti
6	-Vout	LED Cathode connect

General tolerance: +0.25(+0.010)

Pin-Out

LED Driver

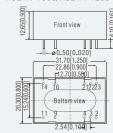
2 KC24W Series: LxWxH: 22.30x12.55x9.10(mm)



2(yellow) AnalogDimming Leave open if nou use 3(white) ON/OFF/PWM Leave open if nou use 4(black) GND Do not commect to-Vout 5(white) -Vout LED Cathode connection 6(yellow) +Vout LED Anode connection

Lead internal diameter: 0.76[0.030] Lead external diameter: 1 60[0 063]: Lead wire spec: UL1569 300V 105 Unmarked Tolerance: ±0,50[±0,020]

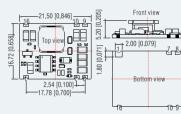
KC24H-1000/KC24H-1200 Series: LxWxH: 31.70x20.30x12.65(mm)



Pin-Out Pin Function Comment GND Do not connect to -LED 4 ON/OFF/PWM Leave open if not use 9.11 -LED LED Cathode connection +LED LED Anode connection 21 Analogue dimming Leave open if not use DC Supply

Pin diameter tolerance: +0.10[+0.004] General tolerance: $\pm 0.251 \pm 0.0101$

4 KC24JT Series: LxWxH: 21.50x16.72x5.20(mm)

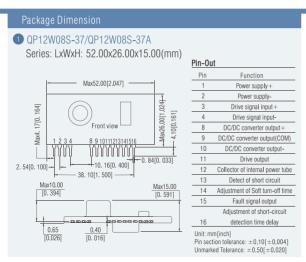


	Pin-Out	
	Pin	Function
_	1	GND
_	7	On/Off/PWM
П	8	-Vo
	9	+V0
	10	Analogue Dimming
+	16	Vin
	Unit: mm[i General tol	nch] erance: ±0.50[±0.020]

Features:

- Built-in isolated DC-DC power supply, single power supply required
- Isolation voltage: 3750VAC
- Input signal frequency up to 20kHz
- Short-circuit and fault feedback functions
- Output cut-off after short circuit protection occurs and timing reset
- Adjustable fault detection rejection time (dead zone)
- Adjustable protective soft cut-off time



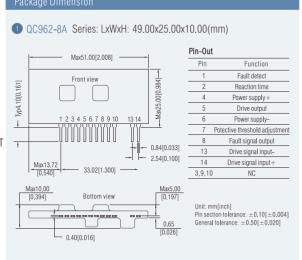


Product Program									
Model number	Nominal input voltage(VDC)	Input voltage range (VDC)	Output High-level voltage VOH (VDC)	Output low-level voltage VOL (VDC)	Max. driving Sw current (A)	vitching freque (Max.) (kHz)	^{ncy} Drive way	Isolation (VAC)	Markings & Datasheet
QP12W08S-37	15	14.5-15.5	15	-9	±8	20	1	3750	C C RoHS D
QP12W08S-37A	12	11.6–12.4	15	- 9	±8	20	1	3750	C C RoHS

IGBT Driver Hybrid Integrated IGBT Driver

- Built-in high CMRR opto-coupler (CMRR: Typ: 30KV/ µ s. Min.: 15KV/ u s)
- High isolation (3700Vrms/min)
- Short-circuit protection and output fault function
- Output soft cut-off when over current occurs and timing reset
- Adjustable short-circuit detection rejection time (dead zone)
- Switching frequency up to 40kHz
- Suitable for 600V/600A, 1200V/400A and 1700V/200A series of IGBT
- Pin and characteristics compatible with M57962AL





Product Program								
Model number	Power voltage VCC (VDC)	Power voltage VEE (VDC)	Gate voltage (VDC)	Max. driving current (A)	Switching frequen (Max.) (kHz)	Drive way	Isolation (VAC)	Markings & Datasheet
QC962-8A	14-18	8	+14/-9	± 8	40	1	3750	RoHS RoHS

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DC/DC Converter for SiC MOSFET Driver

Features:

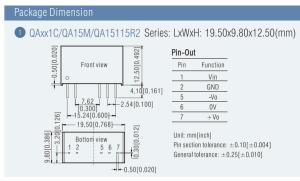
- Efficiency up to 82%
- Isolation voltage: 3500VAC/6000VDC (QA051C: 3000VAC/5200VDC) OA151C3: 3500VAC/5000VDC)
- Ultra-low isolation capacitance (3.5pF)
- Operating temperature: -40°C to +105°C
- Continuous short-circuit protection
- Specialized for SiC MOSFET driver

AC/5200VDC,		MOK O'BO JOHAN
		11 111
	ΛΛ15115R2	

QAxx1C				
Product Progra	m			
Model number	Nominal I nput voltage (VDC)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (Typ)
QA01C ₽3 3'ss C €	15(13.5-16.5)	+20/-4	+100/-100	80
QA051C	5(4.5-5.5)	+20/-5	+80/-40	79
QA1201C-20	12(10.8-13.2)	+20/-4	+100/-100	80
QA121C2	12(10.8-13.2)	+15/-3.5	+111/-111	81
QA121C-20	12(10.8-13.2)	+20/-5	+100/-100	79
QA151C	15(13.5-16.5)	+20/-5	+80/-40	78
QA01C-18	15(13.5-16.5)	+18/-3	+100/-100	79
QA151C3	15(13.5-16.5)	+15/-4	+100/-100	82
QA2401C-20	24(21.6-26.4)	+20/-4	+100/-100	80

QA2401C-20	24(21.6-26.4)	+20/-4	+100/-100	80	
QA151M ROHS					
Product Program					
Model number	Nominal I nput voltage (VDC)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (Typ)	
QA151M	15(13.5-16.5)	+15/-5	+100/-100	80	

	QA15115 Product Progr			RoHS	
	Model number	Nominal Input voltage (VDC)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (Typ)
	QA15115R2	15 (13.5-16.5)	+15/-2.5	+100/-100	80
١		(



DC/DC Converter for IGBT Driver

Features:

OAXX

QA01

QA01-09

QA01-A09

QA01-17

QA02

QA03

QA04

Model number

• Operating temperature: -40°C to

Nominal Input

voltage (VDC)

15(14.5-15.5)

15(14.5-15.5)

15(14.5-15.5)

15(14.5-15.5)

12(11.6-12.4)

24(23.3-24.7)

12(9-15)

· Ultra-low isolation capacitance

• Isolation voltage: 3000VAC . No-load operation allowed

• Ultra-miniature SIP package



c¶Sus (€ RoHS CB Report

Output current

+80/-40

+111/--

+55/-55

+80/-40

+80/-40

+80/-40

+100/-80

Output voltage

+15/-8.7

+9.0/--

+9 0/-9 0

+17/-8.7

+15/-8.7

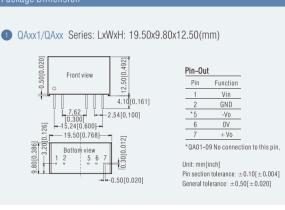
+15/-8.7

+15/-8.0

) +10	5 C
MC	May 1 CAO
	Petros
	11 11

	QA241
	Package
	1 QAxx
SELVI.IEI	
iciency	
b) (Typ)	
80	
80	
80	198
80	9.8010.386
80	08.0
80	

QAxx1			RoHS	
Product Program				
Model number	Nominal I nput voltage (VDC)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (Typ)
QA121 C €	12(11.4-12.6)	+15/-8.0	+120/-120	81
QA151	15(14.25-15.75)	+15/-8.0	+120/-120	81
QA241	24(22.8-25.2)	+15/-8.0	+120/-120	81



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Great Power DC/DC Converter Specialized for IGBT Driver

回鑑課回

Features:

• Operating temperature: -40° C to $+85^{\circ}$ C / -40° C to $+105^{\circ}$ C (QAU242D2G)

· Great power output

• High efficiency up to 87%

• High Isolation: 12000VDC

• Continuous short-circuit protection, self-recovery

• DIP package

OA4ECD OA

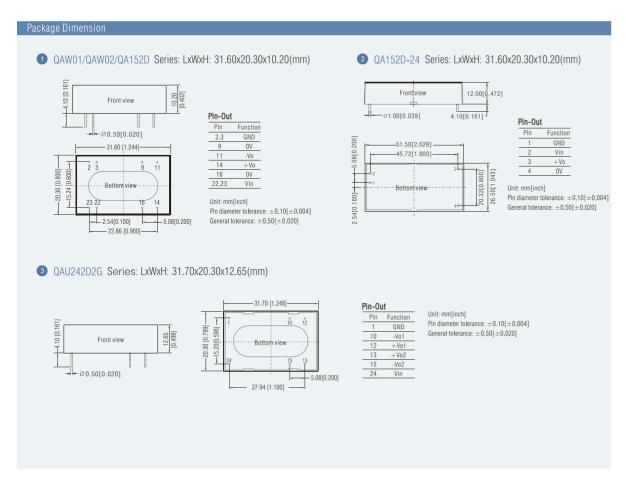


OAWxx Input voltage Output voltage Output current Efficiency Model number (Nominal) (VDC) (m \(\D \) (%) (MAX) QAW01 12(9-18) +15/-9 ± 200 85 85 0.000024(18-36) +15/-9 + 200

UA156D-24	4		(€ RoHS	
Product Program				高級 與
Model number	Input voltage (Nominal)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (MAX)
QA156D-24	15 (13.5-16.5)	+24/+24	+150/0	80

QA152D C € RoHS Product Program Model number Input voltage (Nominal) Output voltage (VDC) Output current Efficiency (mA) QA152D 15 (13.5-16.5) +15/-9 +200/-200 87

QAU242D2G				
Product Program				
Model number	Input voltage (Nominal)	Output voltage (VDC)	Output current (mA)	Efficiency (%) (MAX)
QAU242D2G	24 (9-36)	+24/+24	+150/+150	85



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Caution

Purpose:

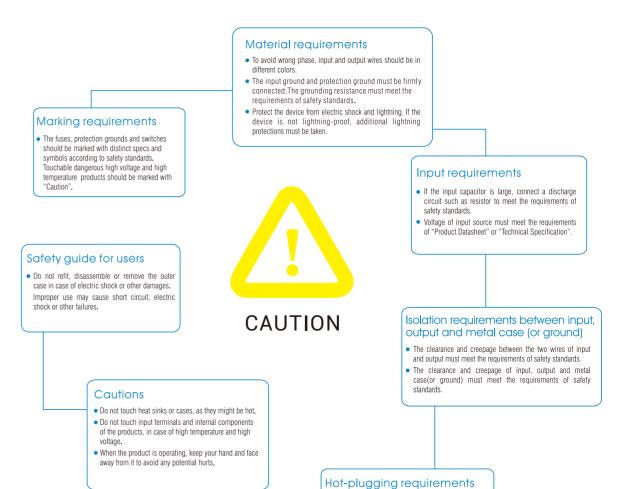
To prevent potential safety problems while using the products.

Scope:

AC/DC, DC/DC, EMC Auxiliary Device, Isolation Transmitter, LED Driver and IGBT Driver manufactured by Mornsun Guanazhou Science & Technology Co., Ltd.

Contents:

Users should comply to all the contents of Product Datasheet carefully before selection, design, or production, and design and use the products according the requirements of Product Datasheet.



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the power before operation.

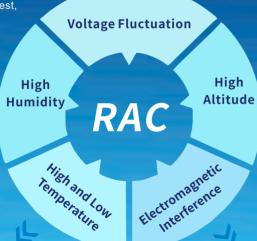
. If the product is not allowed for hot plug, please cut off

MORNSUN®

• • • Reliable under All Conditions • • • •

 Input voltage may rise above 264vac when voltage fluctuation caused by load change or power source as generator

Humidity test:
 Temperature/humidity cyclic test,
 High temperature and high
 humidity test,
 Constant temperature
 & humidity test



 Operation altitude up to 5000m Altitude simulation test: high temperature test, low temperature test, aging test, etc

- Lightning/Surge Immunity
- EMI: CISPR32/EN55032 CLASS A/B



85-305VAC input voltage



RAC — Reliable under All Conditions

Best-in-class performance. Handle the voltage fluctuation easily. High-input-voltage capability, high-low-temperature reliability, high-humidity reliability, high-altitude reliability and good EMC performance under almost any harsh conditions.



Low temperature:

-25°C to -40°C

High temperature:

+70°C to +80°C

Best-in-class performance



handle voltage fluctuations easily



Widely used in almost any harsh conditions

