



AiSHi

THINK AHEAD.

Aihua Film Capacitors Profile 2020

FACTORY INTRODUCTION



□ Brand:



□ Established: March 2018

□ Location: Suzhou, Jiangsu, P.R.C

□ Factory Size: 6800 m²

□ Total Investment: USD 7.5 million

□ Product: Metallized Film Capacitors

□ Employee: 80



By Jun 2020

Provide Film Capacitor To The World With Excellent Performance

FACTORY INTRODUCTION

Factory Pictures



Provide Film Capacitor To The World With Excellent Performance

FACTORY INTRODUCTION

Advance Manufacturing Equipment



High Efficiency Winding Machine



Vacuum Filling Equipment



Automated Robotic Welding



Automated Testing Machine for
Power Electronic Film Capacitor



Automated Voltage Clearance



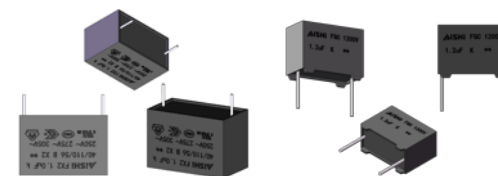
High Efficiency Metal Spray
Machine

Provide Film Capacitor To The World With Excellent Performance

Products Capacity

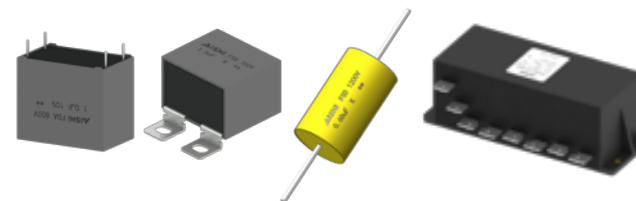
Plastic Case with Pitch 7.5~22.5mm

- 50KK / Month



Plastic Case with Pitch 27.5/52.5mm

- 600K / Month

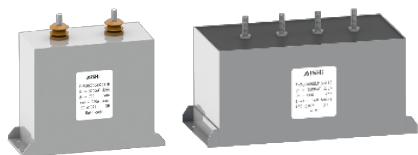


Aluminum Case with OD 85.0mm

- 60K / Month



HIGH POWER DC LINK



Stainless Steel

Vol: 450 ~ 3000 Vdc
Cap: 1000 μ F ~ 20,000 μ F
Temp: -40 °C ~ 70 °C

DC LINK FOR POWER ELECTRONIC



Al Can/Plastic Case

Vol: 450 ~ 3,000 Vdc
Cap: ~ 2,200 μ F
Temp: -40 °C ~ 125 °C

THB / AEC-Q200 (Automotive Grade)

AC FILTER FOR POWER ELECTRONIC

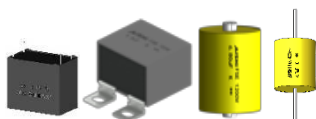


Al Can/Plastic Case

Vol: 160 ~ 850 Vac
Cap: ~600 μ F
Temp: -40 °C ~ 105 °C

THB / AEC-Q200 (Automotive Grade)

SNUBBER FOR IGBT

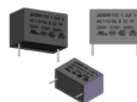


Plastic Case/Axial

Vol: 450 ~ 3,000 Vdc
Cap: 0.033 μ F ~ 5 μ F
Temp: -40 °C ~ 105 °C

THB / AEC-Q200 (Automotive Grade)

SAFETY CAPACITORS



Plastic Case (X1/X2/Y2)

Vol: X2 305 Vac
Vol: X1/X2 350/440/530/760 Vac
Vol: Y2 300/330/350 Vac
Cap: 0.001 μ F ~ 45 μ F
Temp: -40 °C ~ 110 °C

THB / AEC-Q200 (Automotive Grade)

DC CAPACITORS FOR PCB



Plastic Case

Vol: 100 ~ 3,000 Vdc
Cap: 0.00015 μ F ~ 30 μ F
Temp: -40 °C ~ 125 °C

PRODUCTS INTRODUCTION

DC Link Capacitors for Power Electronics

FDG Series



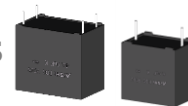
Application

- DC Filtering
- Inverter
- Industrial Power Supply
- Solar Inverter

Features

Cap: $1\mu\text{F} \sim 170\mu\text{F}$
Vol: 450Vdc $\sim$ 1500Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
UL 810/THB Grade IIIB

FDQ/FDJ Series



Application

- DC Filtering
- Industrial Power Supply
- Solar Inverter
- EV Charging Module (OBC)

Features

Cap: $1\mu\text{F} \sim 560\mu\text{F}$
Vol: 450Vdc $\sim$ 1500Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
Automotive Grade (AEC-Q200)

FDB



Application

- DC Filtering
- EV Motor Drive
- Welder
- Elevator

Features

Cap: $50\mu\text{F} \sim 280\mu\text{F}$
Vol: 500Vdc $\sim$ 1100Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$

FDC Series



Application

- DC Filtering
- Energy Storage
- Industry Inverter
- Solar Inverter
- Windmill

Features

Cap: $140\mu\text{F} \sim 2200\mu\text{F}$
Vol: 600Vdc $\sim$ 2000Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$
UL 810

FDD Series



Application

- DC Filtering
- Industrial Power Supply
- Motor Drive
- Welding
- Elevator

Features

Cap: $8\mu\text{F} \sim 100\mu\text{F}$
Vol: 500Vdc $\sim$ 1200Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$

FDE Series



Application

- DC Filtering
- Automotive: EV/HEV DC-Link Circuit

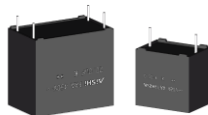
Features

Cap: $300\mu\text{F} \sim 1000\mu\text{F}$
Vol: 450Vdc $\sim$ 900Vdc
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
Automotive Grade (AEC-Q200)

PRODUCTS INTRODUCTION

AC Filter Capacitors for Power Electronics

FAA Series



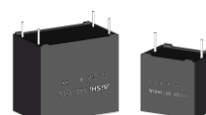
Application

- AC Output Filter
- UPS
- Solar Inverter
- Motor Drive

Features

Cap: $0.47\mu\text{F} \sim 50\mu\text{F}$
Vol: 160Vac ~ 450Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
UL 810

FAG Series



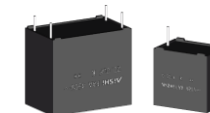
Application

- AC Output Filter
- UPS
- Solar Inverter
- Motor Drive

Features

Cap: $0.47\mu\text{F} \sim 50\mu\text{F}$
Vol: 160Vac ~ 450Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
UL 810/THB Grade IIB

FAQ Series



Application

- AC Output Filter
- UPS
- Solar Inverter
- Motor Drive

Features

Cap: $0.47\mu\text{F} \sim 50\mu\text{F}$
Vol: 160Vac ~ 450Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
Automotive Grade (AEC-Q200)

FAC Series



Application

- PFC
- AC Filtering
- LCL Systems

Features

Cap: $10.0\mu\text{F} \sim 600\mu\text{F}$
Vol: 250Vac ~ 690Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$
UL 810

FAD Series



Application

- PFC
- AC Filtering
- LCL Systems
- Three Phase, (Delta Connection)

Features

Cap: $3 \times 8\mu\text{F} \sim 3 \times 335\mu\text{F}$
Vol: 230Vac ~ 850Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
UL 810

FAB/FAH Series



Application

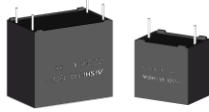
- AC Output Filter
- UPS
- Solar Inverter
- Motor Drive

Features

Cap: $0.15\mu\text{F} \sim 40\mu\text{F}$
Vol: 160Vac ~ 450Vac
Temp: $-40\text{ }^{\circ}\text{C} \sim 105\text{ }^{\circ}\text{C}$
THB Grade IIB

Snubber Capacitors for IGBT Protection

FSA Series



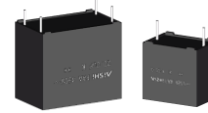
Application

- High Voltage & High Frequency Circuit
- IGBT Modules Protection

Features

Cap: 0.033 μ F ~ 5.0 μ F
Vol: 850Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C
THB Grade IIIB

FSQ Series



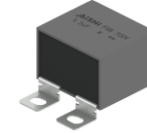
Application

- High Voltage & High Frequency Circuit
- IGBT Modules Protection

Features

Cap: 0.033 μ F ~ 5.0 μ F
Vol: 850Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C
Automotive Grade (AEC-Q200)

FSB Series



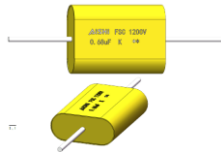
Application

- High Voltage & High Frequency Circuit
- IGBT Modules Protection

Features

Cap: 0.1 μ F ~ 4.0 μ F
Vol: 850Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C

FSC Series



Application

- High Voltage & High Frequency Circuit
- IGBT Modules Protection

Features

Cap: 0.01 μ F ~ 4.7 μ F
Vol: 600Vdc ~ 3000Vdc
Temp: -40 °C ~ 105 °C

FSD Series



Application

- High Voltage & High Frequency Circuit
- IGBT Modules Protection

Features

47Cap: 0.047 μ F ~ 4.7 μ F
Vol: 850Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C

FSE Series



Application

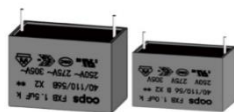
- High Voltage & High Frequency Circuit
- GTO Modules Protection

Features

Cap: 0.5 μ F ~ 12 μ F
Vol: 1000Vdc ~ 3000Vdc
Temp: -40 °C ~ 105 °C

EMI Capacitors

FX2 Series



Application

- Interference suppression in across-the-line.
- Class X2 safety classification.

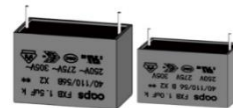
Features

Cap: 0.01 μ F ~ 20 μ F

Vol: 305Vac

Temp: -40 °C ~ 110 °C

FXT Series



Application

- Interference suppression in across-the-line.
- Class X2 safety classification.
- High stability under severe ambient conditions.

Features

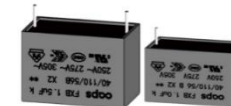
Cap: 0.01 μ F ~ 45 μ F

Vol: 305Vac

Temp: -40 °C ~ 110 °C

THB Grade IIIB

FXB Series



Application

- Capacitive divider, connection in series with main.
- Class X2 safety classification.
- High stability under severe ambient conditions.

Features

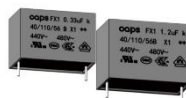
Cap: 0.01 μ F ~ 2.2 μ F

Vol: 305Vac

Temp: -40 °C ~ 110 °C

THB Grade IIIB

FXQ Series



Application

- Interference suppression in across-the-line.
- Class X2 safety classification.

Features

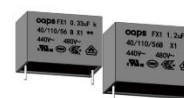
Cap: 0.01 μ F ~ 20 μ F

Vol: 305Vac

Temp: -40 °C ~ 110 °C

Automotive Grade (AEC-Q200)

FX1/FXG Series



Application

- Interference suppression in across-the-line.
- Class X1 safety classification.
- High stability under severe ambient conditions.

Features

Cap: 0.001 μ F ~ 20 μ F

Vol: 350Vac/440Vac/530/760Vac

Temp: -40 °C ~ 110 °C

THB Grade IIIB

FY2 Series



Application

- Interference suppression in across-the-line.
- Class Y2 safety classification.
- High stability under severe ambient conditions.

Features

Cap: 0.001 μ F ~ 1 μ F

Vol: 300Vac / 330Vac / 350Vac

Temp: -40 °C ~ 110 °C

DC Capacitors for PCB

FGA Series



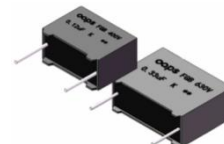
Application

- Power factor correction
- Metallized film

Features

Cap: 0.01 μ F ~ 3.3 μ F
Vol: 450Vdc ~ 630Vdc
Temp: -40 °C ~ 105 °C

FGB Series



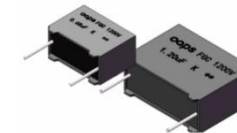
Application

- High frequency and pulse circuit
- Aluminum metallized film

Features

Cap: 0.01 μ F ~ 33 μ F
Vol: 100Vdc ~ 630Vdc
Temp: -40 °C ~ 105 °C

FGC Series



Application

- DC and pulse application
- Snubber/Resonant
- Double sided metallized film

Features

Cap: 0.001 μ F ~ 4.7 μ F
Vol: 630Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C

FGD Series



Application

- High frequency DC and pulse application
- Metallized film in series with aluminum foil

Features

Cap: 0.00015 μ F ~ 0.082 μ F
Vol: 1000Vdc ~ 2000Vdc
Temp: -40 °C ~ 105 °C

FGG/FGJ Series



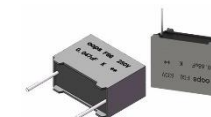
Application

- By-passing, blocking, coupling, de-coupling
- Metallized polyester film

Features

Cap: 0.001 μ F ~ 33 μ F
Vol: 100Vdc ~ 630Vdc
Temp: -40 °C ~ 125 °C

FGH Series



Application

- Power factor correction
- Metallized film @125°C

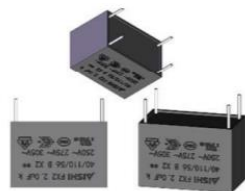
Features

Cap: 0.1 μ F ~ 3.3 μ F
Vol: 450Vdc
Temp: -40 °C ~ 125 °C

Product Certification

Products

Approval



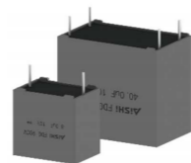
EMI – Class X1/X2/Y2



AC Filter – Cylindrical AL Can Oil Type



DC Link – Cylindrical AL Can Dry Type



DC Link/AC Filter Radial Lead

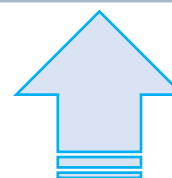


PRODUCTS INTRODUCTION

TYPE	AiSHI	OUTLINE	Faratronic	KEMET	Vishay	TDK Epcos	Electronicon
EMI Cap	FX2 / FXT / FXQ	Radial Lead	C42	R46	F1772 / F1773 / F1778/ F339M	B3293x	
	FXB	Radial Lead	C4B	R47			
	FX1	Radial Lead	C44 / C45 / C46	R47 / R49	F339X1 / MKP338	B3291x	
	FY2	Radial Lead	C43	R41	MKP338	B3202x / B3203x	
Snubber Cap	FSA / FSQ	Radial Lead	C3H	C4AS / C4AT	MKP385		
	FSB	Lug Terminal	C38	C4BS / C4BT	MKP386M / MMKP 386	B32686S	
	FSC	Axial, Oval					
	FSD	Axial, Round	C16	C4C	MKP1839		
	FSE	GTO	C3K	C4D			
DC Link	FDA FDG FDQ	Radial Lead	C3D	C4AE / C4AQ	MKP1848C MKP1848S MKP1848	B3277x	
	FDB	Top Terminal	C3A	C4DE	GLI	B25631	E53 / E55
	FDC	Aluminum Can	C3B	C44U	HDMKP	B2562x	E56 / E59
	FDD	Snap In	C3L				
	FDE	Customized	C36				
AC Filter	FAA / FAG / FAQ	Radial Lead	C6A	C4AF	MKP1847	B32671L / B32672L	
	FAB / FAH	Axial, Round					
	FAC	Single Phase	C6M / C66	C44H / C44P	EMKP	B3236x / B3237x	E62
	FAD	Three Phase	C67	C9T	PhMKP	B3230x	E62 / MKP276

Provide Film Capacitor To The World With Excellent Performance

APPLICATIONS



INDUSTRIAL APPLICATIONS

UPS, Drive,
Inverter, Motor
Control, Elevator,
Server Power

CONSUMER ELECTRONICS

Computer, TV,
Monitor, SMPS,
Audio, Lighting

RENEWABLE ENERGY

Solar Inverter,
Windmill, ESS,
Power Grid

MEDICAL EQUIPMENTS

X-Ray , AED
(Automated
External
Defibrillator)

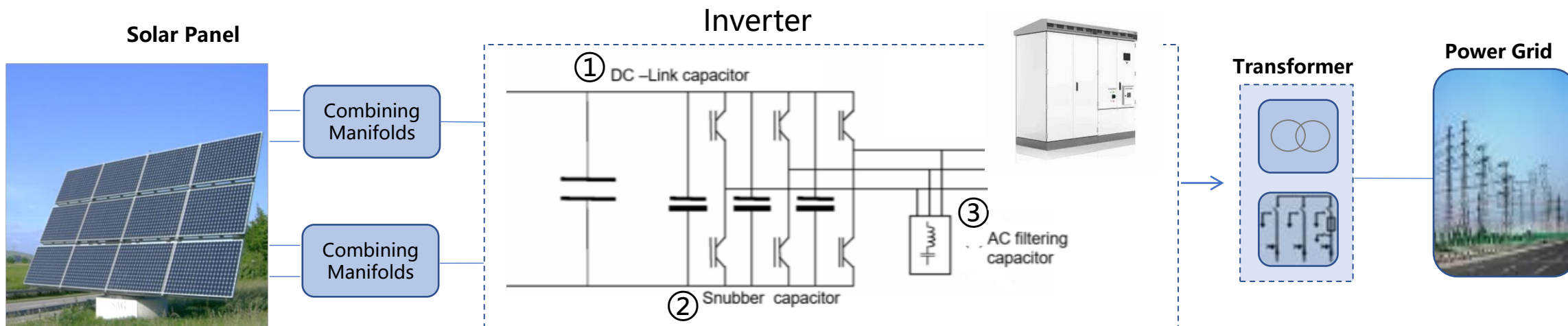
AUTOMOTIVE (EV/HEV)

EV Drive,
EV/HEV Charge
Station, Car
Audio, HID

HOUSEHOLD APPLIANCES

Oven, Microwave,
Inductor Cooker,
Air Conditional,
Refrigerator

Centralized Solar Inverter



① DC Link Capacitor

Application:

DC Filtering and Smoothing

Product:

FDC Series (**UL 810**)

Cn: 170 μ F~2200 μ F

Vn: 600V~1500Vdc



② Snubber Capacitor

Application:

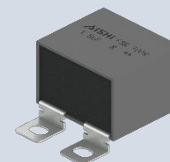
Snubber, IGBT Protection

Product:

FSB Series

Cn: 0.1 μ F~4.0 μ F

Vn: 850V~2000Vdc



③ AC Filter Capacitor

Application:

Output Filter

Product:

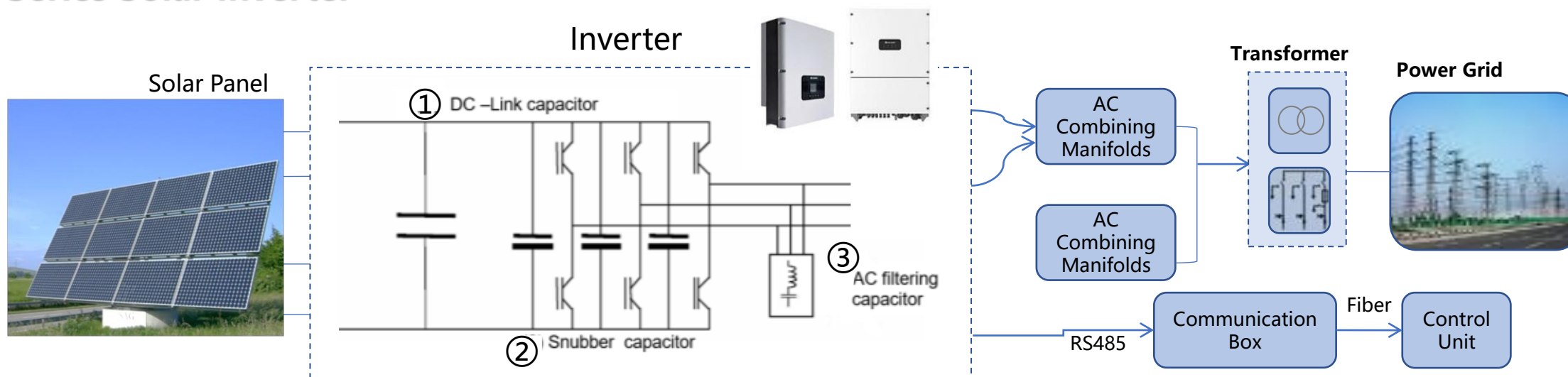
FAD Series (**UL 810**)

Cn: 3x8 μ F~3x335 μ F

Vn: 230V~850Vac



Series Solar Inverter



① DC Link Capacitor

Application:

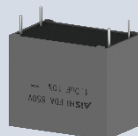
DC Filtering and Smoothing

Product:

FDG Series (**THB/UL 810**)

Cn: 1 μ F~170 μ F

Vn: 450V~1200Vdc



② Snubber Capacitor

Application:

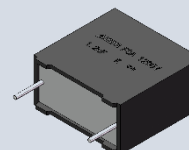
Snubber, IGBT Protection

Product:

FSA Series

Cn: 0.033 μ F~3.0 μ F

Vn: 850V~2000Vdc



③ AC Filter Capacitor

Application:

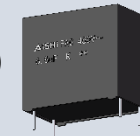
Output Filter

Product:

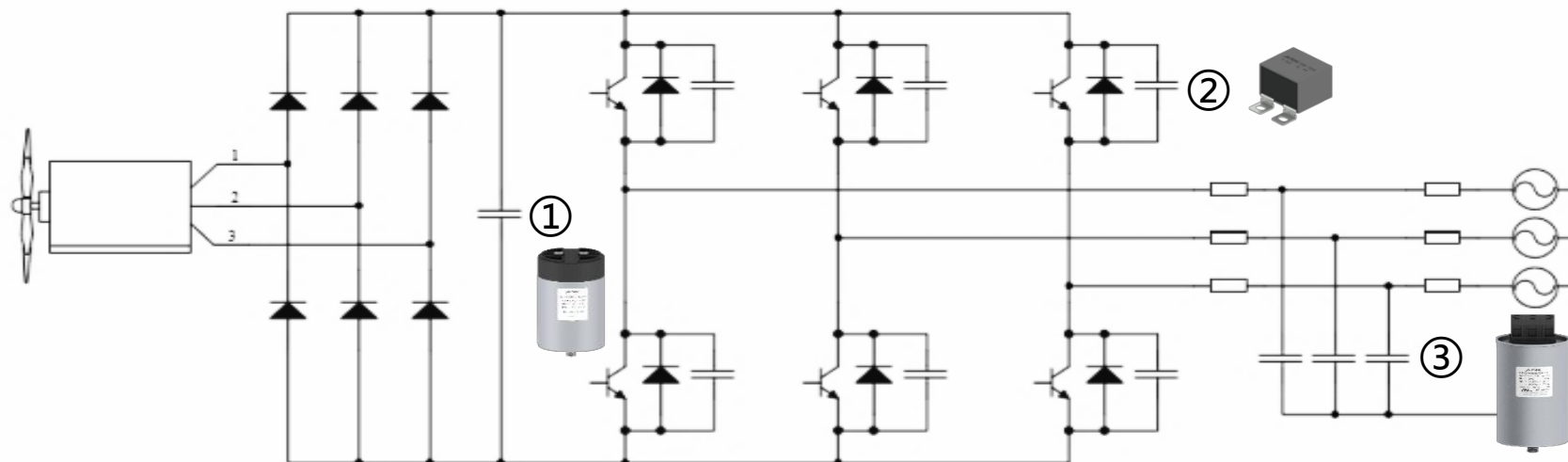
FAG Series (**THB/UL 810**)

Cn: 0.47 μ F~50 μ F

Vn: 160V~450Vac



Windmills Systems



① DC Link Capacitor

Application:

DC Filtering and Smoothing

Product:

FDC Series (**UL 810**)

Cn: 170 μ F~2200 μ F

Vn: 600V~1500Vdc



② Snubber Capacitor

Application:

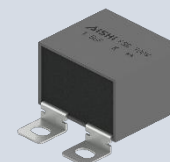
Snubber, IGBT Protection

Product:

FSB Series

Cn: 0.1 μ F~4.0 μ F

Vn: 850V~2000Vdc



③ AC Filter Capacitor

Application:

Output Filter

Product:

FAD Series (**UL 810**)

Cn: 3x8 μ F~3x335 μ F

Vn: 230V~850Vac

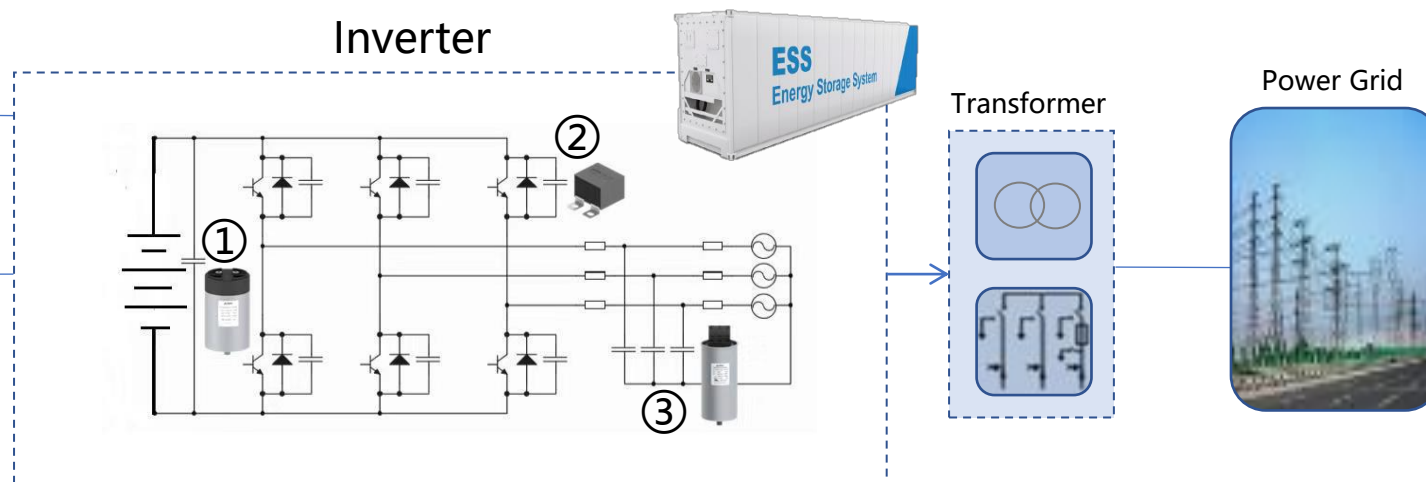


Energy Storage Systems



Combining Manifolds

Combining Manifolds



Customized DC Link Cap

1200Vdc 900 μ F 116X142mm

1200Vdc 450 μ F 86X142mm

Remark: DC Link Capacitors: Smaller size, higher capacitance density, and low ripple current.

① DC Link Capacitor

Application:

DC Filtering and Smoothing

Product:

FDC Series (**UL 810**)

Cn: 170 μ F~2200 μ F

Vn: 600V~1500Vdc



② Snubber Capacitor

Application:

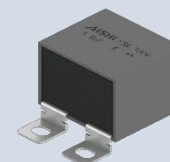
Snubber, IGBT Protection

Product:

FSB Series

Cn: 0.1 μ F~4.0 μ F

Vn: 850V~2000Vdc



③ AC Filter Capacitor

Application:

Output Filter

Product:

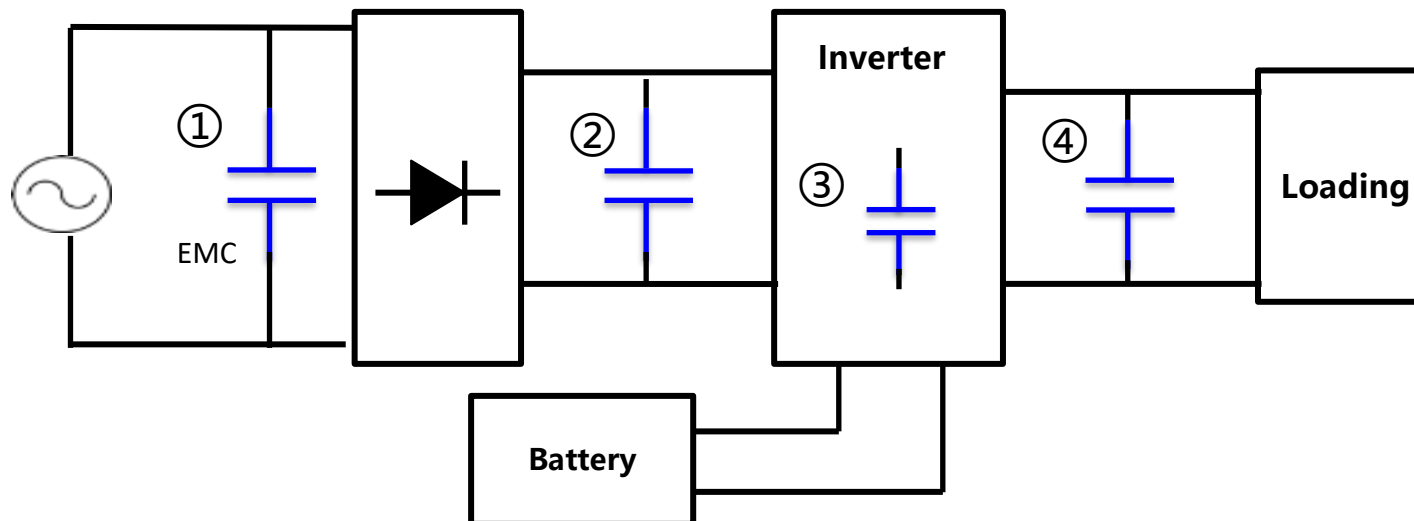
FAD Series (**UL 810**)

Cn: 3x8 μ F~3x335 μ F

Vn: 230V~850Vac



UPS Systems



① Safety X/Y Capacitors

Application:

Across-the-line

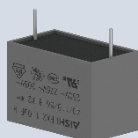
Product:

X1/X2 Series (**THB**)

Cap: 0.001 μ F ~ 45 μ F

Vol: X2 305 Vac; Y2 300/350Vac

Vol: X1 350/440/530/760 Vac



② DC Link Capacitor

Application:

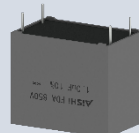
DC Filtering and Smoothing

Product:

FDG Series (**THB**)

Cn: 1 μ F~170 μ F

Vn: 450V~1200Vdc



③ Snubber Capacitor

Applications:

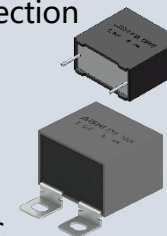
Snubber, IGBT Protection

Product:

FSA/FSB Series

Cn: 0.033 μ F~3.0 μ F

Vn: 850V~2000Vdc



④ AC Filter Capacitor

Application:

Output Filter

Product:

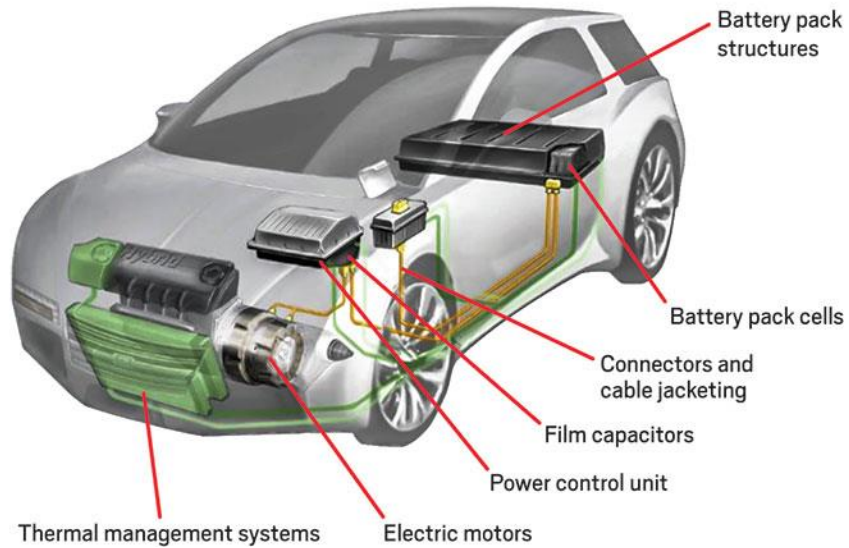
FAG/FAC/FAD Series (**THB/UL 810**)

Cn: 0~600 μ F

Vn: 160V~850Vac



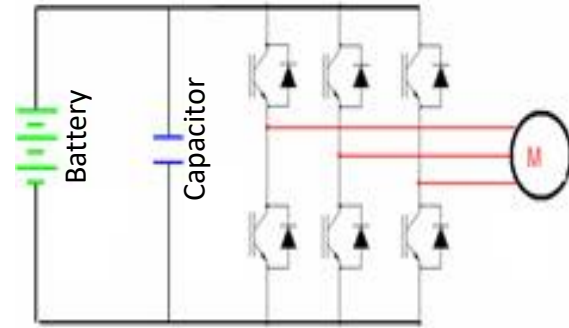
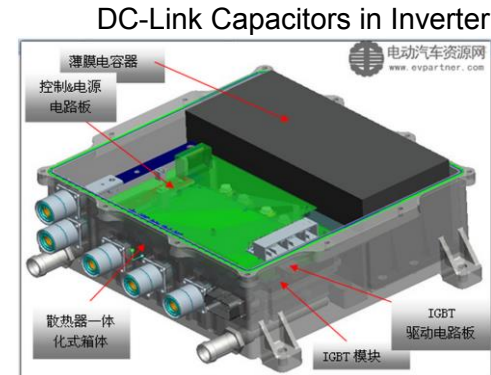
HEV/EV – Power Electronic Control



Requirements

- Compact Size
- Higher Temperature Ratings (105 ambient)
- Higher Current
- Customized Terminals
- Low ESL
- Vibration Resistance

Electronic Control Module (DC Link Cap)



- Smooth bus voltage
- Reduce inductance of line

DC Link Capacitor (Customized)

Applications:

DC Filtering and Smoothing

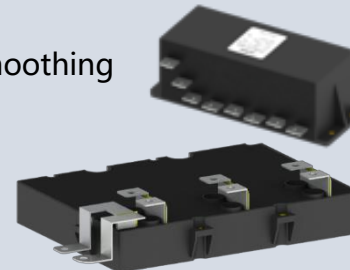
Product:

FDE Series

Cn: 300 μ F~1000 μ F

Vn: 450V~900Vdc

Automotive Grade (**AEC-Q200**)



DC Link Capacitor

Application:

DC Filtering and Smoothing

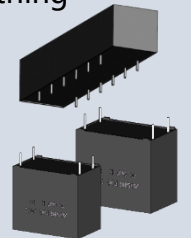
Product:

FDQ Series

Cn: 1 μ F~170 μ F

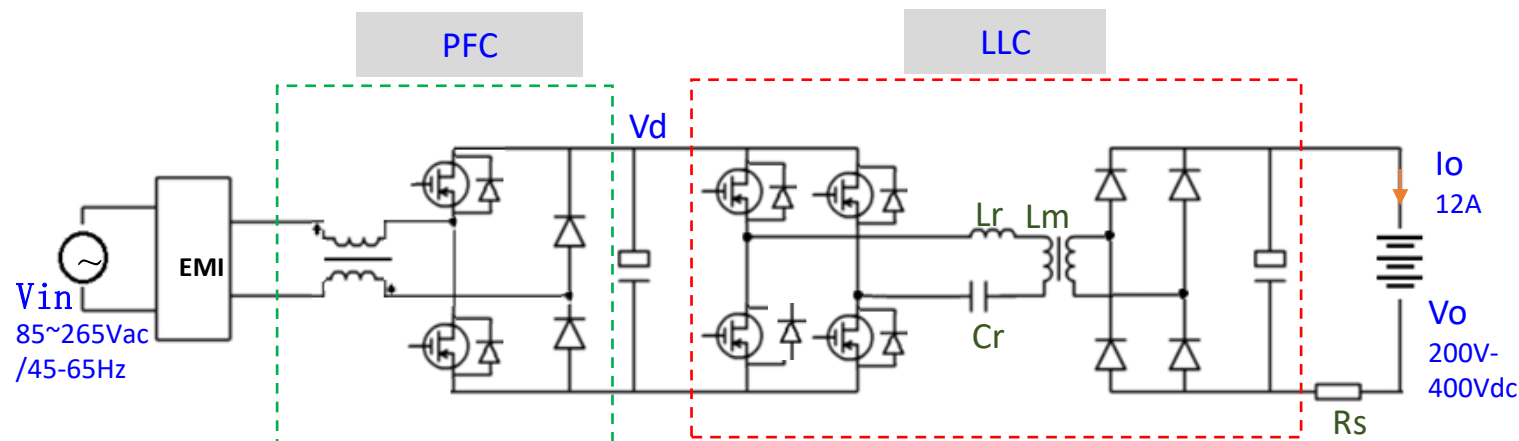
Vn: 450V~1200Vdc

Automotive Grade (**AEC-Q200**)



HEV/EV – Onboard Charger

AC Charging (OBC) Simplified Circuit



EMI Capacitors

Application:

Across-the-line

Product:

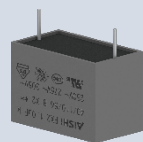
FXQ/FX1/FY2 Series

Cap: 0.001μF ~ 45μF

Vol: X2 305 Vac; Y2 300/350Vac

Vol: X1 350/440/530/760 Vac

Automotive Grade (**AEC-Q200**)



DC Link Capacitors

Application:

DC Filtering and Smoothing

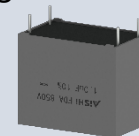
Product:

FDQ Series

Cn: 1μF~170μF

Vn: 450V~1200Vdc

Automotive Grade (**AEC-Q200**)



DC Capacitor (Resonant)

Application:

High Voltage, Resonant & Snubber

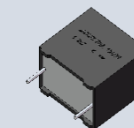
Product:

FSQ Series

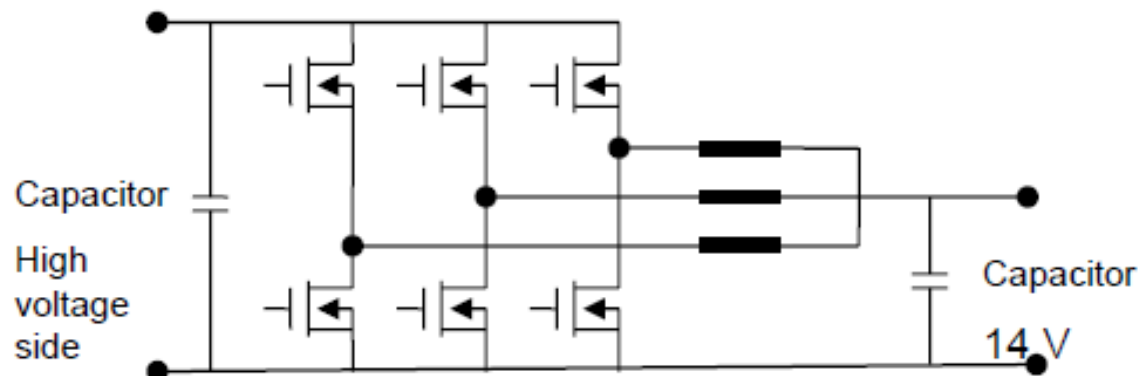
Cn: 0.033 μF ~ 5.0μF

Vn: 850V~2000Vdc

Automotive Grade (**AEC-Q200**)



HEV/EV – DC to DC Converter



- Used for the conversion of the battery voltage of 14V to a higher voltage (42V or higher)
- The film capacitor is used as an input and output filters.

Requirements

- Stable and High Reliability.
- Excellent current handling capability for DC Link capacitor..
- Low ESL
- Vibration Resistance

DC Link Capacitor

Application:

DC Filtering and Smoothing

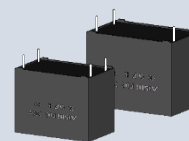
Product: FDQ Series (PP Film)

Cn: 1 μ F~170 μ F

Vn: 450V~1200Vdc

Temp: 105 °C

Automotive Grade (**AEC-Q200**)



DC Link Capacitor

Application:

DC Filtering and Smoothing

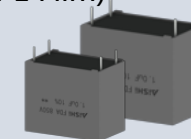
Product: FDJ Series (PE Film)

Cn: 5 μ F ~220 μ F

Vn: 63V~450Vdc

Temp: 125 °C

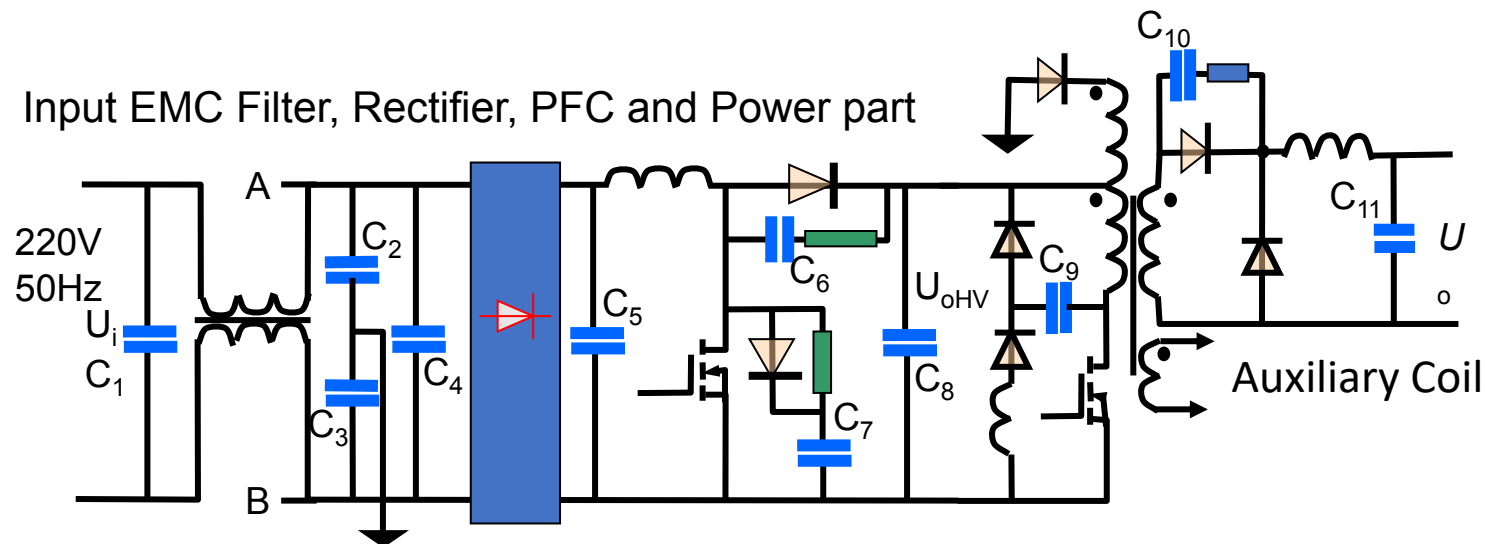
Automotive Grade (**AEC-Q200**)



Switching Power Supply



Input EMC Filter, Rectifier, PFC and Power part



C1/C2/C3/C4
Safety Capacitor

Application:

Across-the-line

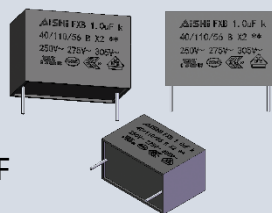
Product:

X1/X2/Y2 Series

Cn: 0.001 μ F ~ 45 μ F

Vn: X2 305 Vac; Y2
300/350Vac

Vn: X1 350/440/530/760 Vac



C5
DC Capacitor (PFC)

Application:

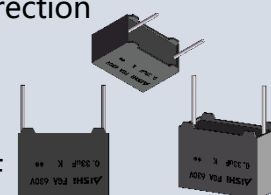
Power Factor Correction

Product:

FGA Series

Cn: 0.01 μ F~3.3 μ F

Vn: 450V~630Vdc



C6/C7/C9/C10
DC Capacitor (Resonant)

Application:

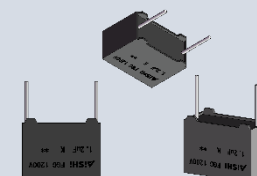
High Voltage, Resonant & Snubber

Product:

FGC Series

Cn: 0.001~4.7 μ F

Vn: 630V~2000Vdc



KEY CUSTOMERS

Industrial / New Energy



Provide Film Capacitor To The World With Excellent Performance

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Industrial / New Energy



Provide Film Capacitor To The World With Excellent Performance

KEY CUSTOMERS

Consumer Electronics

FOXCONN[®]
富 士 康 科 技 集 团

AOC

TOSHIBA

CHANGHONG

Panasonic

MITSUMI

Distributors

AVNET[®]
Reach Further[™]

FUTURE
ELECTRONICS

CODICO[®]

Sacchi
Elettronica

R&D & TESTING EQUIPMENT

- STANDARD: IEC/EN/UL 60384-14, IEC 60384-2/16/17, IEC 61071, IEC 60831, AEC-Q200D
- We have all the required testing equipment to ensure the product reliability, include AEC-Q200 testing requirement;
- Type of Testing: High Temperature Storage, Temperature Cycle, Humidity Resistance, High Temperature, Raid Temperature, Temperature Rise, Life Test, Surge Discharge, Vibration and etc.



Vibration test



Thermal Shock



Humidity Test



Temperature Rise



Surge Discharge



Aging Test



3-Phase AC Test



Non-destructive Test



RoHS Test



Flammability Test



Digital Microscope



Impedance Analysis



Active Flammability



Aging Test



Charge/Discharge

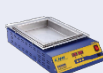
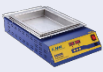


Pulse Test

Provide Film Capacitor To The World With Excellent Performance

AEC-Q200D Testing Equipment

Test	No.	Test Method	Requirement	
High Temperature Storage	3	MIL-STD-202 Method 108	Put in the chamber with 110°C/1000Hrs, without voltage	
Temperature Cycle	4	JESD22 Method JA-104	1000 cycle within -40°C to 105°C, each temperature stays no more than 30mins.	
Humidity Resistance	6	MIL-STD-202 Method 106	24 Hours without voltage, t = 24 hours/cycle, total 10 cycles	
High Humidity Resistance	7	MIL-STD-202 Method 103	60°C, 95%RH, 1000Hrs with Rated Voltage 85°C, 85%RH, 1000Hrs with Rated Voltage	
Life Test	8	MIL-STD-202 Method 108	85°C with 130% Rated Voltage or 105°C with 100% Rated Voltage for 1000 hours	
Terminal Strength (Leaded)	11	MIL-STD-202 Method 211	Test leaded device lead integrity only. Conditions: Pull test : A (2.27 kg), Bend test: C (227 g)	
Mechanical Shock	13	MIL-STD-202 Method 213	Condition C 100g / 6ms, Half-sine	

Test	No.	Test Method	Requirement	
Vibration	14	MIL-STD-202 Method 204	5g weight, 20 minutes, three directions, 12 cycles in each direction. Test frequency 10~2000Hz	
Welding Heat Resistance	15	MIL-STD-210 Method 210	For Leaded use Procedure 1 with solder within 1.27mm of device body. Condition B: 260±5°C / 10±1s	
Thermal Shock	16	MIL-STD-202 Method 107	1000 cycle within -40°C to 105°C, each temperature stays no more than 30mins.	
Solderability	18	J-STD-002	Leaded: Method A @ 245±2°C, duration: 2±0.5 s	
Electrical Characteristics	19	User Specification	Voltage test Capacitance and DF at 1kHz -ESR / ESL / IR	
Flammability	20	UL-94	UL -94 V0	
Discharge Test		AEC-Q200-007 (IEC61071)	5 times in 10 min 1.1Un or 1.1Is	

Experience

Capability

Facility

Speed

Strategy: Increase development capability, Expand product type, Deep cooperate with major supplier

- ◆ More than 25 years experience in film capacitors field
- ◆ Familiar with customer's requests and applications, provide better solutions on different applications.
- ◆ Know well key material character and operation
- ◆ Rich experience in production management

- ◆ Widely product lines
 - Industrial \ Consumer
 - AC \ DC
 - Dry type \ Oil type
 - Box \ Aluminum can \ Metal Steel
- ◆ Ability to develop and design products at the same time with customers
- ◆ Ability to analyze and solve after-sales problems

- ◆ Intelligent production and management system as a medium-term strategic
- ◆ Smart MES systems by end of 2020
- ◆ Integrated ERP and Barcode Tracking systems
- ◆ Advanced experimental equipment to make sure product reliability

- ◆ Provide corresponding product solutions to customers in a timely manner
- ◆ Complete supply chain, and deep cooperative with film supplier to ensure timely delivery and cost advantage

THANK YOU.

We hope to be your trusted partner.