

Green Power

Professional Manufacturer
Offer solution for
green energy

carsPA[®]
NEW ENERGY

COMPANY

INTRODUCTION

Through unremitting efforts over many years, the scale has leaping development. In 2010, we moved to our new building, and we changed our company name to "Carspa New Energy Co.,Ltd" (former name is Wenzhou Carspa Electronics Technology Co.,Ltd) in 2011.

We have a research center in Shenzhen (Shenzhen Sunpulse Industry Co.,Ltd). And in 2011, we establish our own Import & export company (Yueqing Carspa Import & Export Co.,Ltd).

We are a high and new technology manufacturer and exporter in China which is mainly specialized in researching, developing, manufacturing and marketing of power inverter including Mini Car Inverter, Modified Sine Wave and Pure Sine Wave Inverter, Battery Charger, Inverter with Charger, Domestic and Industrial use UPS, DC Converter, Stabilizer, Air Purifier & Ozone Sterilizer and other car electrical products, Solar Modules , PV on-grid Inverter, Microinverter, High-tech off grid inverter, Solar Charge Controller, Solar and Wind System and other solar related products. Also, we deal with some other low voltage electric appliances and power supply products.

Established in 2004, Carspa company located in Wenzhou, the largest manufacturing base of low voltage electronic equipment in China, and has developed very quickly in this field. With the powerful technology support and advanced production and inspection devices, Carspa products have exported to many regions and many countries. Along with several leading experts, our company has developed a sound operation system which consists of manufacturing, studying, researching, marketing, and servicing.

Our company has obtained ISO9001 quality certificate, CE certificate. And we have won numerous honor at home and abroad for our good quality, competitive price and considerate service. Our motto is " Harmony, Sincerity, Creativity and Win-Win ". We have been constantly pursuing to promote the development of the technology of the renewable energy, we try to make great efforts for saving global energy resources, making our future brighter.

We accept OEM and small trial orders, contact us now for more information. All inquiries will be replied within 24 hours. We also cordially welcome all clients to visit us and discuss business and place orders with us by any means of communication. We believe that with our best quality products and your marketing channels, we are certain to establish a lasting mutual benefit cooperation relationship with you.

Company' Brand Evolution:   

CARSPA NEW ENERGY CO.,LTD

www.chinacarspa.com
www.carspa.cn



carSPA 卡斯帕

carSPA[®]
RENEW ENERGY

CERTIFICATION

ISO9001:2000

Issued by China
Quality System Center



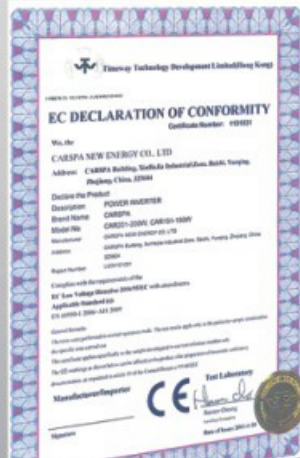
E8 certification issued by the ministry of transport and communications of the czech republic

RoHS

RoHS the product fulfills the requirements of the RoHS Directive 2002/95/EC



SONCAP Standards Organisation of Nigeria



CE-LVD/EMC
EC Low Voltage Directive
2006/95/EC with Amendments
Applicable Standard(s):
EN60950-1:2006+A11:2009

Low Voltage Directive :
EN60335-2-29: 2004
EN60335-1:2002+A11:2004+A1:
2004+A12:2006+A2:2006+A13:2008
EN62233:2008

EC Council Directive on electromagnetic
Compatibility 2004/108/EC Applicable Standard(s) :
EN55022:2006+A1:2007
EN61000-3-2:2006+A1:2009+A2:2009
EN55024:1998+1998+A1:2001+A1:2001+A2:2003
EN61000-3-3:2008

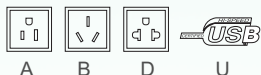
A	Mini Car Inverter	01-05
B	Modified Sine Wave & Pure Sine Wave DC to AC Power Inverter	06-20
C	Inverter with Charger	21-25
D	Movable Solar Power System & PV on-grid Inverter Smart Power Inverter	27-32
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I	AC Stabilizer & Voltage Regulator	76-85

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


Mini Car Inverter






MINI CAR INVERTER

Model	CAR7501U-121	CAR7501U-122	CAR7501U-241	CAR7501U-242
Rated Power	75W			
Surge Power	150W			
Output Voltage	110V	230V	110V	230V
Frequency	50/60Hz ± 3			
USB Port	5V, 500mA(Optional)			
Output Waveform	Modified Sine Wave 			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	120 x 60 x 39mm (L x W x H)			
N.W. / unit	145g			
QTY/ Ctn	40 Pcs			
Packing	Blister			
Meas./Ctn	58 x 30 x 38.5 cm			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			

Note: if without USB,the model is CAR7501.


MINI CAR INVERTER

Model	CAR7500-121	CAR7500-122	CAR7500-241	CAR7500-242
Rated Power	75W			
Surge Power	150W			
Output Voltage	110V	230V	110V	230V
Frequency	50/60Hz ± 3			
Output Waveform	Modified Sine Wave 			
Protection	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	77 x 66 x 39mm (L x W x H)			
N.W. / unit	215g			
QTY/ Ctn	40 Pcs			
Packing	Blister			
Meas./Ctn	58 x 30 x 38.5 cm			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			






MINI CAR INVERTER

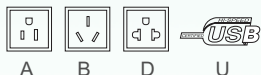
Model	CAR100-121	CAR100-122	CAR100-241	CAR100-242
Rated Power	100W			
Surge Power	200W			
Output Voltage	110V	230V	110V	230V
Frequency	50/60Hz ± 3			
USB Port	Modified Sine Wave 			
Output Waveform	5V, 500mA			
Protection Function	OverLoad, OverTemperature, OverVoltage, ShortCircuit, Reverse Polarity			
Input Voltage	12V		24V	
Dimension	108 x 66 x 20mm (L x W x H)			
N.W. / unit	195g			
QTY/ Ctn	50 Pcs			
Packing	Blister			
Meas./Ctn	48 x 32 x 46cm			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			


SMART CAR INVERTER

Model	CAR120-121	CAR120-122	CAR120-241	CAR120-242
Rated Power	120W			
Surge Power	240W			
Output Voltage	110V	230V	110V	230V
Frequency	50/60Hz ± 3			
USB Port	Modified Sine Wave 			
Output Waveform	5V, 500mA			
Protection Function	OverLoad, OverTemperature, OverVoltage, ShortCircuit, Reverse Polarity			
Input Voltage	12V		24V	
LED Display	Volt, Watts, Protection Status			
Dimension	108 x 66 x 20mm (L x W x H)			
N.W. / unit	215g			
QTY/ Ctn	50 Pcs			
Packing	Blister			
Meas./Ctn	48 x 32 x 46cm			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			




MINI CAR INVERTER

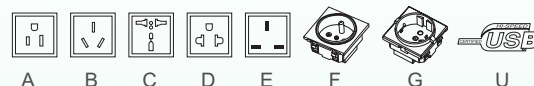


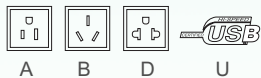
Model	CAR1500U-121	CAR1500U-122	CAR1500U-241	CAR1500U-242
Rated Power	150W			
Surge Power	300W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave 			
USB Port	5V,500mA(Optional)			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	87 x 74 x 43mm (L x W x H)			
N.W./Unit	255g			
QTY/ Ctn	40 Pcs			
Meas./Ctn	58 x 30 x 38.5 cm			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			

Note: if without USB,the model is CAR1500.

MINI CAR INVERTER

Model	CAR151-121	CAR151-122	CAR151-241	CAR151-242
Rated Power	150W			
Surge Power	300W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA			
LED Indicator	Green-Power on, Red-Failure & Protection			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Soft Start	YES			
Input Voltage	12V		24V	
Fuse	External			
Dimension	145 x 76 x 54mm (L x W x H)			
N.W./Unit	365g			
QTY/ Ctn	40 Pcs			
Meas./Ctn	51 x 37 x 42.5 cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			





MINI CAR INVERTER

Model	CAR2000U-121	CAR2000U-122	CAR2000U-241	CAR2000U-242
Rated Power	200W			
Surge Power	400W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave			
USB Port	5V, 500mA(Optional)			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	87 x 73 x 43mm (L x W x H)			
N.W./Unit	255g			
QTY/ Ctn	40 Pcs			
Meas./Ctn	58 x 30 x 38.5 cm			
Packing	Blister			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			

Note: if without USB,the model is CAR2000.

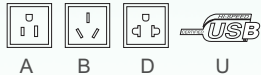
MINI CAR INVERTER

Model	CAR201-121	CAR201-122	CAR201-241	CAR201-242
Rated Power	200W			
Surge Power	400W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave			
USB Port	5V, 500mA			
LED Indicator	Green-Power on, Red-Failure & Protection			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Soft Start	YES			
Input Voltage	12V		24V	
Fuse	External			
Dimension	145 x 76 x 54mm (L x W x H)			
N.W./Unit	365g			
QTY/ Ctn	40 Pcs			
Meas./Ctn	51 x 37 x 42.5 cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			




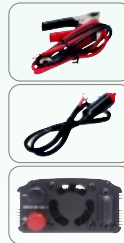
*Modified Sine Wave DC to AC Power Inverter
Pure Sine Wave DC to AC Power Inverter
Inverter with Charger*






MODIFIED SINE WAVE DC TO AC POWER INVERTER

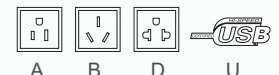
Model	CAR200U-121	CAR200U-122	CAR200U-241	CAR200U-242
Rated Power	200W			
Surge Power	400W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	130 x 90 x 437mm (L x W x H)			
N.W./Unit	445g			
QTY/ Ctn	28 Pcs			
Meas./Ctn	58 x 30 x 38.5 cm			
External Fuse	12V		24V	
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			



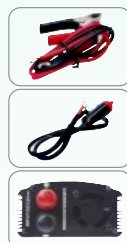
Note: if without USB,the model is CAR200.


MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR200UC-121	CAR200UC-122	CAR200UC-241	CAR200UC-242
Rated Power	200W			
Surge Power	400W			
Output Voltage	110V	230V	110V	230V
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Cigarette Socket	DC12V, Max Current 15 Amper			
Protection Function	OverLoad,OverTemperature,OverVoltage,ShortCircuit,Reverse Polarity			
Input Voltage	12V		24V	
Dimension	130 x 90 x 437mm (L x W x H)			
N.W./Unit	445g			
QTY/ Ctn	28 Pcs			
Meas./Ctn	58 x 30 x 38.5 cm			
External Fuse	25A x 1		15A x 1	
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18 Months			




MODIFIED SINE WAVE DC TO AC POWER INVERTER

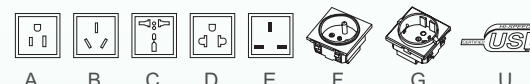
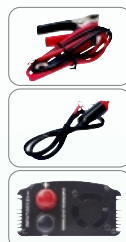


Model	CAR300U-121	CAR300U-122	CAR300U-241	CAR300U-242
Rated Power	300W			
Surge Power	600W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Soft Start	YES			
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	195 x 102 x 55.5 mm (L x W x H)			
N.W./Unit	630g			
QTY/ Ctn	20pcs			
Meas./Ctn	60 x 35 x 45 cm			
Fuse	Internal			
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			

Note: if without USB,the model is CAR300.

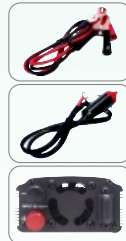
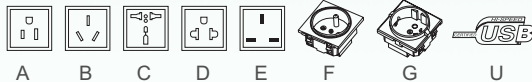
MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR400U-121	CAR400U-122	CAR400U-241	CAR400U-242
Rated Power	400W			
Surge Power	800W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Soft Start	YES			
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	195 x 102 x 55.5 mm (L x W x H)			
N.W./Unit	630g			
QTY/ Ctn	20pcs			
Meas./Ctn	60 x 35 x 45 cm			
Fuse	Internal			
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			



Note: if without USB,the model is CAR400.

MODIFIED SINE WAVE DC TO AC POWER INVERTER



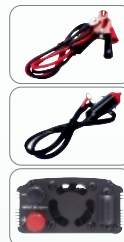
Model	CAR500U-121	CAR500U-122	CAR500U-241	CAR500U-242
Rated Power	500W			
Surge Power	1000W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Modified Sine Wave			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	235 x 102 x 55.5 mm (L x W x H)			
N.W./Unit	835g			
QTY/ Ctn	20pcs			
Meas./Ctn	60 x 35 x 45 cm			
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			

Note: if without USB,the model is CAR500.

MODIFIED SINE WAVE DC TO AC POWER INVERTER


Model	CAR600U-121	CAR600U-122	CAR600U-241	CAR600U-242
Rated Power	600W			
Surge Power	1200W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Modified Sine Wave			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	235 x 102 x 55.5 mm (L x W x H)			
N.W./Unit	835g			
QTY/ Ctn	20pcs			
Meas./Ctn	60 x 35 x 45 cm			
Packing	Blister/Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			

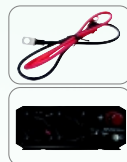
Note: if without USB,the model is CAR600.



MODIFIED SINE WAVE DC TO AC POWER INVERTER




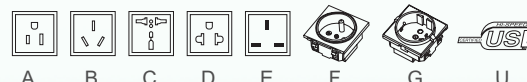
Model	CAR700U-121	CAR700U-122	CAR700U-241	CAR700U-242
Rated Power	700W			
Surge Power	1400W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	215 x 150 x 58 mm (L x W x H)			
N.W./Unit	1500g			
QTY/ Ctn	8pcs			
Meas./Ctn	52.5 x 38.5 x 30 cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			



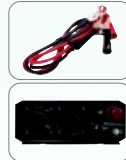
Note: if without USB,the model is CAR700.

MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR800U-121	CAR800U-122	CAR800U-241	CAR800U-242
Rated Power	800W			
Surge Power	1600W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Modified Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	215 x 150 x 58 mm (L x W x H)			
N.W./Unit	1500g			
QTY/ Ctn	8pcs			
Meas./Ctn	52.5 x 38.5 x 30 cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			



Note: if without USB,the model is CAR800.



MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR900U-121	CAR900U-122	CAR900U-241	CAR900U-242
Rated Power	900W			
Surge Power	1800W(Few seconds)			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Modified Sine Wave			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity.			
Input Voltage	12V		24V	
Dimension	260 x 150 x 58 mm (L x W x H)			
N.W./Unit	1800g			
QTY/ Ctn	6 Pcs			
Meas./Ctn	57 x 30.5 x 30 cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	18Months			

Note: if without USB,the model is CAR900.

MODIFIED SINE WAVE DC TO AC POWER INVERTER


Model	CAR1KU-121	CAR1KU-122	CAR1KU-241	CAR1KU-242	CAR1KU-481	CAR1KU-482
Rated Power	1000W					
Surge Power	2000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Bat. Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	272.5 x 208 x 77 mm (L x W x H)					
N.W./Unit	2400g					
QTY/ Ctn	6 Pcs					
Meas./Ctn	50 x 34 x 44.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	18Months					

Note: if without USB,the model is CAR1K.




MODIFIED SINE WAVE DC TO AC POWER INVERTER

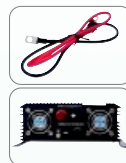


Model	CAR1.2KU-121	CAR1.2KU-122	CAR1.2KU-241	CAR1.2KU-242	CAR1.2KU-481	CAR1.2KU-482
Rated Power	1200W					
Surge Power	2400W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	272.5 x 208 x 77 mm (L x W x H)					
N.W./Unit	2400g					
QTY/ Ctn	6 Pcs					
Meas./Ctn	50 x 34 x 44.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	18Months					

Note: if without USB,the model is CAR1.2K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER


Model	CAR1.5KU-121	CAR1.5KU-122	CAR1.5KU-241	CAR1.5KU-242	CAR1.5KU-481	CAR1.5KU-482
Rated Power	1500W					
Surge Power	3000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	322.5 x 208 x 77 mm (L x W x H)					
N.W./Unit	3050g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	50 x 38.5 x 30 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	18Months					



Note: if without USB,the model is CAR1.5K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER




Model	CAR1.6KU-121	CAR1.6KU-122	CAR1.6KU-241	CAR1.6KU-242	CAR1.6KU-481	CAR1.6KU-482
Rated Power	1600W					
Surge Power	3200W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	322.5 x 208 x 77 mm (L x W x H)					
N.W./Unit	3200g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	50 x 38.5 x 30 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	18Months					



Note: if without USB,the model is CAR1.6K.

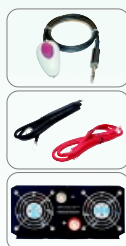
MODIFIED SINE WAVE DC TO AC POWER INVERTER

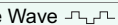
Model	CAR1.8KU-121	CAR1.8KU-122	CAR1.8KU-241	CAR1.8KU-242	CAR1.8KU-481	CAR1.8KU-482
Rated Power	1800W					
Surge Power	3600W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	322.5 x 208 x 77 mm (L x W x H)					
N.W./Unit	3200g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	50 x 38.5 x 30 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	18Months					



Note: if without USB,the model is CAR1.8K.


MODIFIED SINE WAVE DC TO AC POWER INVERTER



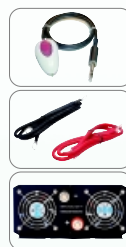
Model	CAR2KU-121	CAR2KU-122	CAR2KU-241	CAR2KU-242	CAR2KU-481	CAR2KU-482
Rated Power	2000W					
Surge Power	4000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	345 x 230 x 108 mm (L x W x H)					
N.W./Unit	4900g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	40 x 31.5 x 37 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18Months					

Note: if without USB,the model is CAR2K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER


Model	CAR2.5KU-121	CAR2.5KU-122	CAR2.5KU-241	CAR2.5KU-242	CAR2.5KU-481	CAR2.5KU-482
Rated Power	2500W					
Surge Power	5000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	345 x 230 x 108 mm (L x W x H)					
N.W./Unit	5300g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	40 x 31.5 x 37 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18Months					

Note: if without USB,the model is CAR2.5K.






MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR3KU -121	CAR3KU -122	CAR3KU -241	CAR3KU -242	CAR3KU -481	CAR3KU -482
Rated Power	3000W					
Surge Power	6000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	420 x 230 x 108 mm (L x W x H)					
N.W./Unit	6200g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	49 x 31.5 x 38.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18Months					

Note: if without USB,the model is CAR3K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER

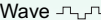
Model	CAR3.5KU -121	CAR3.5KU -122	CAR3.5KU -241	CAR3.5KU -242	CAR3.5KU -481	CAR3.5KU -482
Rated Power	3500W					
Surge Power	5000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	420 x 230 x 108 mm (L x W x H)					
N.W./Unit	6200g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	49 x 31.5 x 38.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18 Months					

Note: if without USB,the model is CAR3.5K.






MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR4KU-121	CAR4KU-122	CAR4KU-241	CAR4KU-242	CAR4KU-481	CAR4KU-482
Rated Power	4000W					
Surge Power	8000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	520 x 230 x 108 mm (L x W x H)					
N.W./Unit	8150g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	57.5 x 32 x 38.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18 Months					

Note: if without USB,the model is CAR4K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER


Model	CAR4.5KU-121	CAR4.5KU-122	CAR4.5KU-241	CAR4.5KU-242	CAR4.5KU-481	CAR4.5KU-482
Rated Power	4500W					
Surge Power	9000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V,500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	520 x 230 x 108 mm (L x W x H)					
N.W./Unit	8600g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	57.5 x 32 x 38.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18Months					

Note: if without USB,the model is CAR4.5K.






MODIFIED SINE WAVE DC TO AC POWER INVERTER

Model	CAR5KU-121	CAR5KU-122	CAR5KU-241	CAR5KU-242	CAR5KU-481	CAR5KU-482
Rated Power	5000W					
Surge Power	10000W(Few seconds)					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	520 x 230 x 108 mm (L x W x H)					
N.W./Unit	8150g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	57.5 x 32 x 38.5 cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Remote Controller	with 5m wire (Optional)					
Warranty	18 Months					

Note: if without USB,the model is CAR5K.

MODIFIED SINE WAVE DC TO AC POWER INVERTER WITH GFCI PROTECTOR

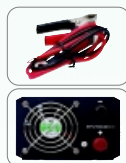
Model	CAR2KU-121-GFCI	CAR2KU-241-GFCI	CAR2KU-481-GFCI
Rated Power	2000W		
Surge Power	4000W(Few seconds)		
Output Voltage	110V	230V	110V
Frequency	50/60Hz ± 3		
Output Waveform	Modified Sine Wave 		
USB Port	5V, 500mA (Optional)		
Protection	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage		
Input Voltage	12V	24V	48V
Dimension	345 x 230 x 108 mm (L x W x H)		
N.W./Unit	4900g		
QTY/ Ctn	2 Pcs		
Meas./Ctn	Gift box		
Packing	40 x 31.5 x 37 cm		
Brand	CARSPA or OEM		
Output Socket	GFCI		
Leakage Current	≤ 30mA, ≤ 0.2s		
Warranty	18 Months		


GFCI: Ground Fault Circuit Interrupter.



 It is necessary for the GFCI inverter to test the leakage protection function each month.


PURE SINE WAVE DC TO AC POWER INVERTER



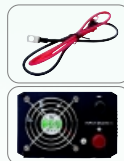
Model	P400U-121	P400U-122	P400U-241	P400U-242
Rated Power	400W			
Surge Power	800W			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Pure Sine Wave 			
USB Port	5V, 500mA(Optional)			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage			
Input Voltage	12V		24V	
Dimension	260 x 150 x 58 mm (L x W x H)			
N.W./Unit	1600g			
QTY/ Ctn	6 Pcs			
Meas./Ctn	57 x 30.5 x 30cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	24 Months			

Note: if without USB,the model is P400.

PURE SINE WAVE DC TO AC POWER INVERTER

Model	P600-121	P600-122	P600-241	P600-242
Rated Power	600W			
Surge Power	1200W			
Output Voltage	110V	230V	110V	230V
Output Frequency	50/60Hz±3			
Soft Start	YES			
Output Waveform	Pure Sine Wave 			
LED Indicator	Green-Power on, Red-Failure & Protection			
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage			
Input Voltage	12V		24V	
Dimension	260 x 150 x 77.7 mm (L x W x H)			
N.W./Unit	2200g			
QTY/ Ctn	6 Pcs			
Meas./Ctn	57 x 30.5 x 30cm			
Packing	Gift box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS E-mark			
Warranty	24Months			





PURE SINE WAVE DC TO AC POWER INVERTER

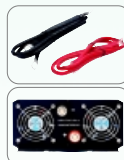
Model	P1000-121	P1000-122	P1000-241	P1000-242	P1000-481	P1000-482
Rated Power	1000W					
Surge Power	2000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	293 x 150 x 97.5 mm (L x W x H)					
N.W./Unit	3100g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	38.5 x 35 x 34cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24Months					

PURE SINE WAVE DC TO AC POWER INVERTER


Model	P1500U-121	P1500U-122	P1500U-241	P1500U-242	P1500U-481	P1500U-482
Rated Power	1500W					
Surge Power	3000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6200g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					



Note: if without USB, the model is P1500.




PURE SINE WAVE DC TO AC POWER INVERTER

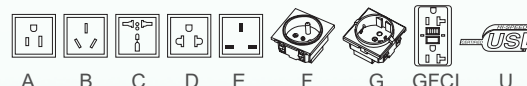
Model	P2000U-121	P2000U-122	P2000U-241	P2000U-242	P2000U-481	P2000U-482
Rated Power	2000W					
Surge Power	4000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6350g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					

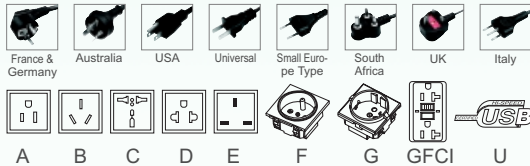
Note: if without USB,the model is P2000.

PURE SINE WAVE DC TO AC POWER INVERTER

Model	P2500U-121	P2500U-122	P2500U-241	P2500U-242	P2500U-481	P2500U-482
Rated Power	2500W					
Surge Power	5000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Pure Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
Dimension	405 x 230 x 108 mm (L x W x H)					
N.W./Unit	6350g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	CARSPA or OEM					
Certification	CE-EMC/LVD RoHS E-mark					
Warranty	24 Months					

Note: if without USB,the model is P2500.



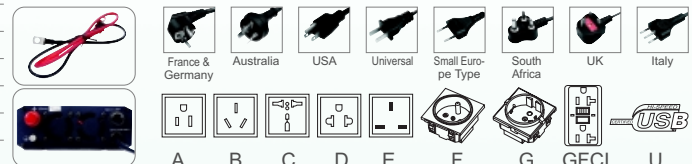


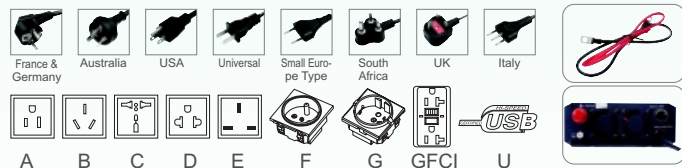
INVERTER WITH CHARGER

Model	UPS600-121	UPS600-122	UPS600-241	UPS600-242
Rated Power	600W			
Surge Power	1200W(Few seconds)			
Output Waveform	Modified Sine Wave			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	10A		5A
Transfer Time	<8 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	330 x 150 x 58mm(L x W x H)			
N.W./Unit	2100g			
QTY/Ctn	6 Pcs			
Meas./Ctn	39 x 34 x 31cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			


INVERTER WITH CHARGER

Model	UPS800-121	UPS800-122	UPS800-241	UPS800-242
Rated Power	800W			
Surge Power	1600W(Few seconds)			
Output Waveform	Modified Sine Wave			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	10A		5A
Transfer Time	<8 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	330 x 150 x 58mm(L x W x H)			
N.W./Unit	2150g			
QTY/Ctn	6 Pcs			
Meas./Ctn	39 x 34 x 31cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			




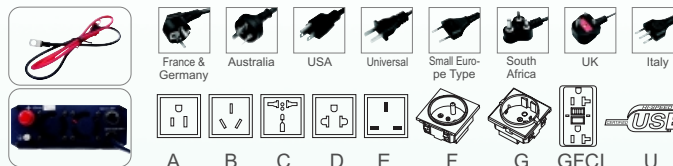


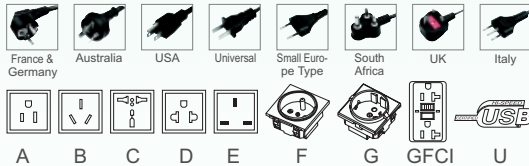
INVERTER WITH CHARGER

Model	UPS1000-121	UPS1000-122	UPS1000-241	UPS1000-242
Rated Power	1000W			
Surge Power	2000W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage		24V	
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage		120-260V AC	
	Output Voltage	12V		24V
Max. Current	10A		5A	
Transfer Time	<10 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	400 x 150 x 58mm(L x W x H)			
N.W./Unit	2850g			
QTY/Ctn	6 Pcs			
Meas./Ctn	50 x 47 x 22cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD ROHS Soncap			
Warranty	18 Months			


INVERTER WITH CHARGER

Model	UPS1200-121	UPS1200-122	UPS1200-241	UPS1200-242
Rated Power	1200W			
Surge Power	2400W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage		24V	
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage		120-260V AC	
	Output Voltage	12V		24V
Max. Current	10A		5A	
Transfer Time	<10 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	400 x 150 x 58mm(L x W x H)			
N.W./Unit	2900g			
QTY/Ctn	6 Pcs			
Meas./Ctn	50 x 47 x 22cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			






INVERTER WITH CHARGER

Model	UPS1500-121	UPS1500-122	UPS1500-241	UPS1500-242
Rated Power	1500W			
Surge Power	3000W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	15A		8A
Transfer Time	<15 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	390 x 230 x 108mm(L x W x H)			
N.W./Unit	5400g			
QTY/Ctn	2Pcs			
Meas./Ctn	46 x 31.5 x38.5cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			


INVERTER WITH CHARGER

Model	UPS2000-121	UPS2000-122	UPS2000-241	UPS2000-242
Rated Power	2000W			
Surge Power	4000W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	10A		5A
Transfer Time	<15ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	390 x 230 x 108mm(L x W x H)			
N.W./Unit	5800g			
QTY/Ctn	2Pcs			
Meas./Ctn	46 x 31.5 x38.5cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			






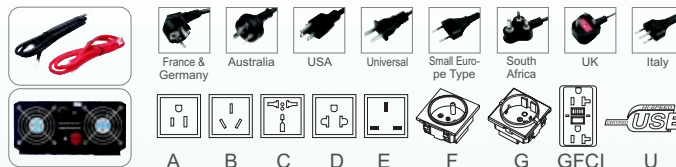
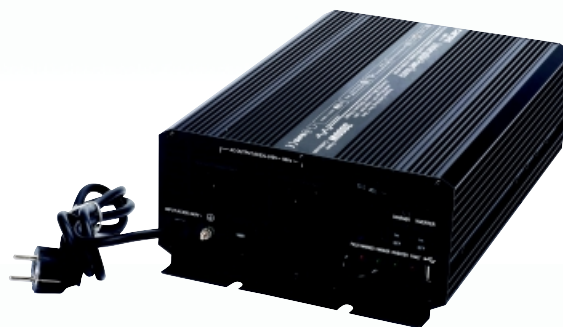
INVERTER WITH CHARGER

Model	UPS2500-121	UPS2500-122	UPS2500-241	UPS2500-242
Rated Power	2500W			
Surge Power	5000W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	15A		8A
Transfer Time	<15 ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	460 x 230 x 108mm(L x W x H)			
N.W./Unit	7000g			
QTY/Ctn	2Pcs			
Meas./Ctn	52.5 x 38.5 x 30cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			



INVERTER WITH CHARGER

Model	UPS3000-121	UPS3000-122	UPS3000-241	UPS3000-242
Rated Power	3000W			
Surge Power	6000W(Few seconds)			
Output Waveform	Modified Sine Wave 			
Inverter Part	Input Voltage	12V		24V
	Output Voltage	110V	230V	110V
Charger Part	Input Voltage	80-150V AC		120-260V AC
	Output Voltage	12V		24V
	Max. Current	15A		8A
Transfer Time	<15ms			
USB Port	5V, 500mA			
Protection Function	Over Load,Over Temperature,Over Voltage, Low Voltage, Short Circuit,Reverse Polarity,Earth Leakage, Over Charge etc.			
Dimension	460 x 230 x 108mm(L x W x H)			
N.W./Unit	7400g			
QTY/Ctn	2Pcs			
Meas./Ctn	52.5 x 38.5 x 30cm			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE-EMC/LVD RoHS SONCAP			
Warranty	18 Months			



FAQ

1. What is the difference between modified sine wave and pure sine wave?

Answers: Modified sine wave power inverters are more portable than pure sine wave power inverters, lighter, and lower in cost. If your device will handle voltage fluctuations, a modified sine wave inverter should be considered. Most devices that people typically wish to power will work fine with a modified sine wave inverter, as a precaution, please contact the manufacturer of your device to determine if it is compatible.

Pure sine wave power inverters motor's run cooler, last longer and provide very clean power like you would receive from a power company. Devices such as laser printers, digital clocks, and most medical equipment require a pure sine wave inverter to run correctly. As noted above, as a precaution, please contact the manufacturer of your device to determine if pure sine wave power is required.

2. Can you give me some suggestions for connecting batteries in parallel?

- Answers:**
- Use batteries of identical make, model, and age.
 - Make sure cable gauge is sufficient to handle the higher current flow.
 - Prevent cables from shorting (do not allow them to rub against the vehicle body).
 - Use only high quality connectors, clean all contacts prior to installation.
 - Periodically check all connections for snugness.
 - If you are unsure of this procedure, contact your automotive service center.

3. Can I use an extension cord with my inverter?

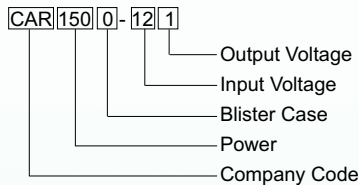
Answers: Yes, no problem. If cables need to be run, it is best to keep inverter as close as possible to batteries. Use extension cords on the output side (Vac output) rather than extending the Vdc cables. Tip: Contractors often need to mount the inverter in the back of their trucks. In a case like this it would be best to mount a secondary battery near the inverter and wire it to the primary truck battery. Vac extension cords should not exceed 200 feet or you will have signal loss

4. How does a power inverter work?

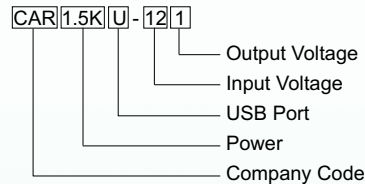
Answers: A power inverter converts DC power into conventional AC power allowing you to use your favorite devices when an AC outlet is not available. Simply connect an inverter to a battery source, plug your appliance into the inverter and you're set!

Model Explanation

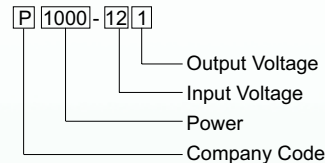
1. Mini Car Inverter



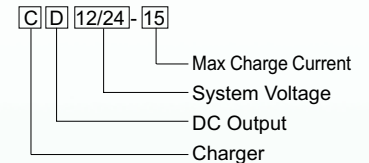
2. Modified Sine Wave Inverter



3. Pure Sine Wave Inverter



4. Solar Charge Controller



Sunpulse™

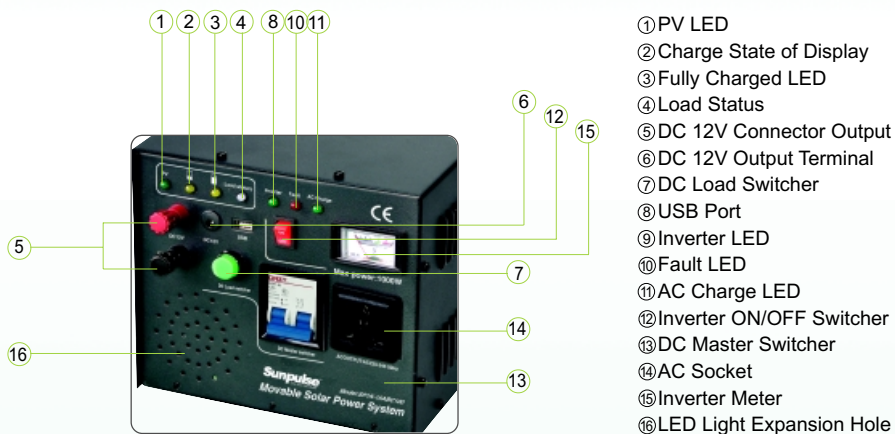
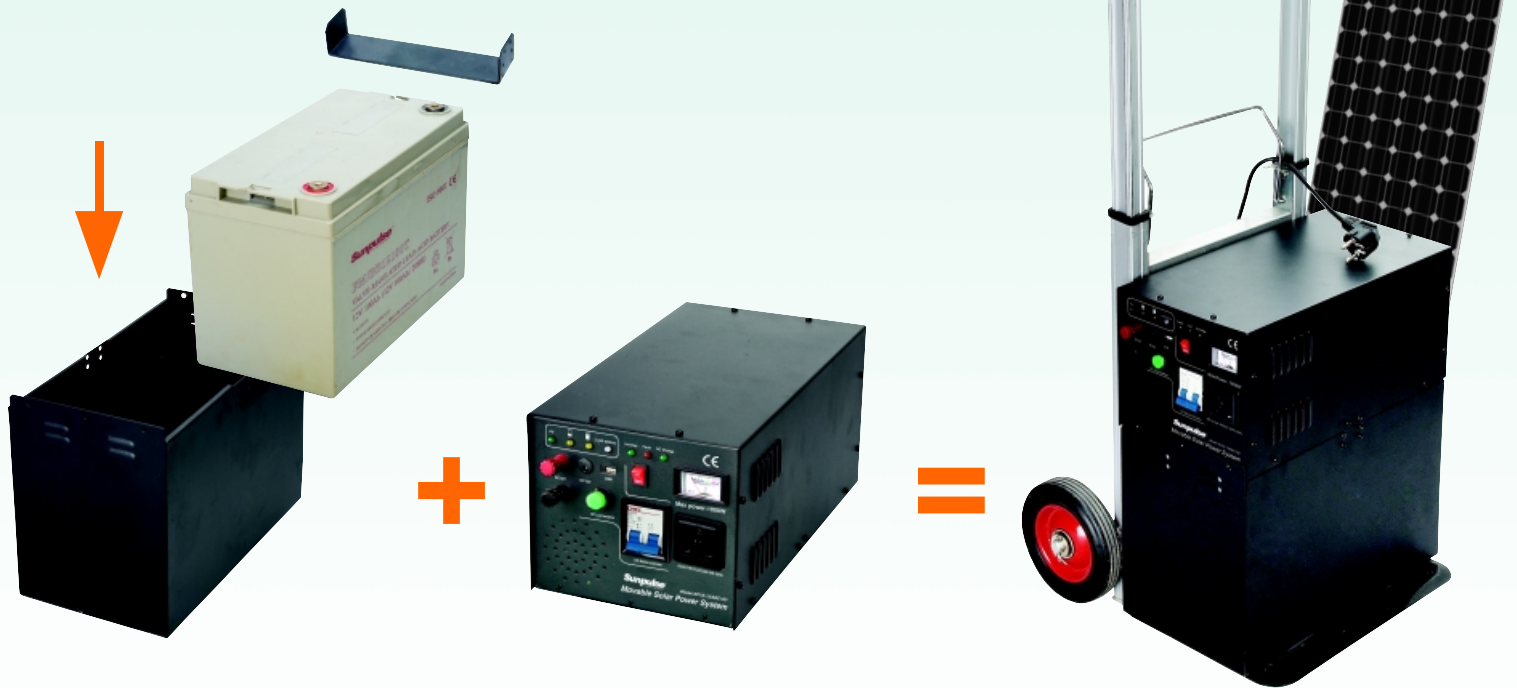
One Sun One World



Sunpulse BY carSPA

New

Sunpulse by Carspa New Energy Co.,Ltd, we plan to use this new brand for some top technology products. Such as : PV on grid inverter, Microinverter, Solar charge controller , N series high-end off grid inverter etc. Sunpulse is dedicated to create a world-class brand in new energy field. We expect to cooperate with all buyers who have high requirements.




- ① PV LED
- ② Charge State of Display
- ③ Fully Charged LED
- ④ Load Status
- ⑤ DC 12V Connector Output
- ⑥ DC 12V Output Terminal
- ⑦ DC Load Switcher
- ⑧ USB Port
- ⑨ Inverter LED
- ⑩ Fault LED
- ⑪ AC Charge LED
- ⑫ Inverter ON/OFF Switcher
- ⑬ DC Master Switcher
- ⑭ AC Socket
- ⑮ Inverter Meter
- ⑯ LED Light Expansion Hole

FEATURES :

1. Movable, easy use and convenient
2. Smart solar charge controller , automatic battery charger ,power inverter together
3. Inverter and charger part automatic transfer. By pass time less 8ms.
4. Multi-production function : low voltage alarm & shutdown, over voltage, overload, over heat, reverse polarity, Soft start, earth leakage protection etc.
5. DC load master switcher control all output & input of DC load.
6. High-speed cooling fan
7. Built-in battery and external battery expansion.

MOVABLE SOLAR POWER SYSTEM

Model		SP1K-15ABC100	SP1.5K-20BC100	SP1K-15	SP1.5K-20	SP2K-25		
Power Inverter Part	Output	Voltage(AC)	230V					
		Voltage Range(AC)	220~240V					
		Frequency(Hz)	50/60Hz±3					
		Rated Power(Watts)	1000W	1500W	1000W	1500W	2000W	
		Waveform	Modified Sine Wave 					
		Efficiency	>90%					
	Input	USB Port	5V,1000mA					
		Voltage(DC)	12V					
		Voltage Range(DC)	10~15V					
		Replacable Fuse	30A x 4ea	50A x 4ea	40A x 4ea	50A x 4ea	60A x 4ea	
		No load Current Draw	<1A					
		Protection Function	Lowalarm	10±0.5V				
	Low Voltage Shutdown		9.5±0.5V					
	Over Voltage		15.5±0.5V					
	Reverse Polarity		By Fuse Open					
	Auto.Reset Voltage		11.5±0.5V					
	Over Voltage Protection		>1050W	>1600W	>1050W	>1600W	>2000W	
	Output Short Circuit		Yes, auto.reset					
	Cooling Fan		>350W@load					
	Solar Charge Controller Part	PV Input	PV Input	12V@15A(in Parallel)	12V@20A(in Parallel)	12V@15A(in Parallel)	12V@20A(in Parallel)	12V@25A(in Parallel)
3 PV Connector								
Battery Charger Part (Public Power)	Controller	Max.charge Current	15A	20A	15A	20A	25A	
		Max.DC Load Power	180W	240W	180W	240W	300W	
		No load Current Draw	<0.5MA					
	3 Stage	Boost Voltage	Liquid Electrolyte	14.5V(25°C)@2H		GEL	14.1V(25°C)@2H	
		Fqualization Voltage		14.8V(25°C)@2H			14.4V(25°C)@2H	
		Float Voltage		13.7V(25°C)			13.5V(25°C)	
	Protection Function	Battery Type Adjustable	GEL /Liquid Electrolyte					
		Temperature Compensation	-4MV/Cell*k					
		DC Load Low Voltage Shutdown	11V±2V					
		Over Load Protection	Yes					
Battery Charger Part (Public Power)	Charger	Short Circuit	Yes		<div style="background-color: #90EE90; padding: 5px;"> <p>Model Explanation</p> <p>S P 1K - 15 A B C 100</p> <ul style="list-style-type: none"> └─ Built in Battery 100Ah └─ Battery Charger └─ Box For Battery └─ Inverter & charger auto. switch └─ Controller's max.charge current └─ Power Inverter 1000W └─ Power └─ Solar </div>			
		Backflow Current	Yes					
		Charge Way	3 Stage					
		Max.Charge Current	15A					
		AC Fuse	10A					
		AC Input Voltage Range	By temp. control(50°C)					
		Cooling Fan	By temp. control(50°C)					
		Floating Charge Voltage	14.1V@0.02A					
		Bypass Mode	Transfer Time	<15ms				NO
			Stop Time Between Switch	2S				NO



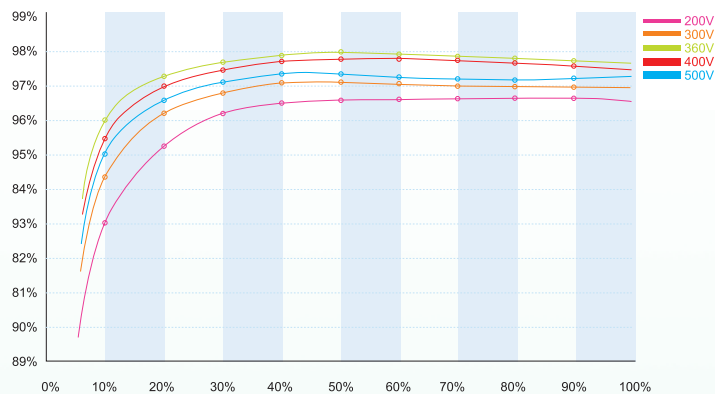
Leading-edge Technology

- Maximum efficiency of 97.9% and wide input voltage range
- Muti MPP controller
- Transformerless H6 topology
- Muti MPP control
- Bluetooth technology
- Sound control
- Internal DC switch
- Compact design
- MTL-String
- Easy installation

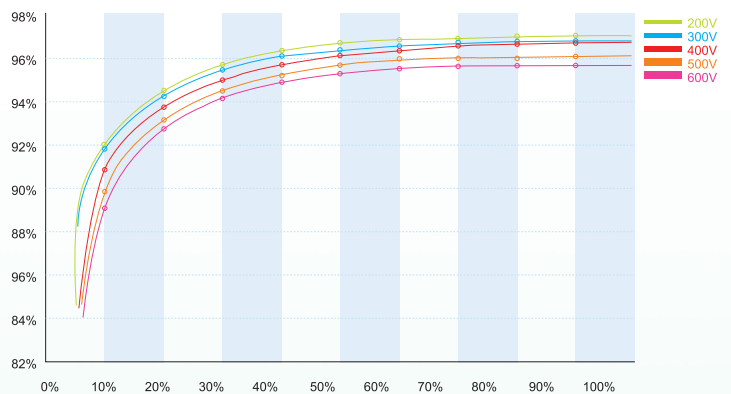
Europe/Australia ENS

- Simple national setting of line supply monitoring(ENS)
- Easy country configuration
- Multi-language display
- Currently available for Germany, France, UK, Austria, Switzerland, Italy and Spain

3K Efficiency



5K Efficiency



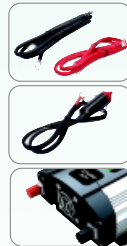
S SERIES S1500/S2000/S3000/S4400/S5000**Datasheet**

	Model	S 1500	S 2000	S 3000	S 4400	S 5000
Input Data	Max. DC power	1800W	2300W	3150W	4600W	5200W
	Max. DC Voltage	450V	500V	500V	580V	580V
	PV Voltage Range MPPT	120V-450V	120V-450V	120V-450V	120V-450V	120V-500V
	Full Load Mpp-Voltage Range	230V-450V	210V-450V	250V-450V	280V-500V	280V-500V
	Max.number of Parallel Strings	1	2	1	3	3
	Number of MPP trackers	1	1	1	1	1
	MPPT Input Current	0-10A	0-12A	0-15A	0-20A	0-20A
	Max DC Input Lsc Current	15A	15A	20A	27A	27A
Output(AC)	Nominal AC Ouput	1650W	2000W	2850W	4200W	4600W
	Max. AC Power	1650W	2200W	3000W	4400W	5000W
	Max. Output Current	8A	11A	13A	21A	23A
	AC Voltage Range	207Vac-263Vac	207Vac-263Vac	207Vac-263Vac	207Vac-263Vac	207Vac-263Vac
	AC Grid Frequency Range	46Hz-54Hz	46Hz-54Hz	46Hz-54Hz	46Hz-54Hz	46Hz-54Hz
	Phase Shift(cos φ)	1	1	1	1	1
	THDI	<3%	<3%	<3%	<3%	<3%
	AC Connection	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
Efficiency	Max.Efficiency	97%	97%	97%	97%	97%
	Ero-eta	96%	96%	96%	96%	96%
	MPPT Efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
Protection Devices	DC Reverse Polarity Protection	Yes	Yes	Yes	Yes	Yes
	AC Short-Circuit Protection	Yes	Yes	Yes	Yes	Yes
	Ground Fault Mounitoring	Yes	Yes	Yes	Yes	Yes
	Grid Monitoring	Yes	Yes	Yes	Yes	Yes
	Integrated All-pole Sensitive	Yes	Yes	Yes	Yes	Yes
	Leakage Current Monitoring Unit	Yes	Yes	Yes	Yes	Yes
General Date	Dimensions(W/D/H)in mm	362/329/132	362/329/132	362/329/132	406/406/192	406/406/192
	Weight	11.5KG	11.7KG	12.2KG	21KG	21KG
	Operating Temperature Range	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C
	Continuous Full Output Power Temperature Range	-25°C...+60°C	-25°C...+60°C	-25°C...+45°C	-25°C...+55°C	-25°C...+55°C
	Noise Emission(Typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
	Consumption:Operating(Standby)/Night	<5W/<0.5W	<5W/<0.5W	<5W/<0.5W	<5W/<0.5W	<5W/<0.5W
	Topoplogy	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
	Cooling Concept	No fan	No fan	No fan	No fan	No fan
In stallation:Indoors/ Outdoors(IP65 Electronics)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	



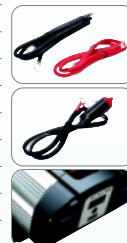
SMART POWER INVERTER

Model	N300-121	N300-122	N300-241	N300-242	N300-481	N300-482
Rated Power	300W					
Surge Power	600W					
Output Voltage	110V	230V	110V	230V	110V	230V
Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
LED Display	Volt, Watts, Protection Status					
N.T Weight	1100g					
QTY/ Ctn	16 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	Sunpulse or OEM					
Remote Controller	with 5m wire					
Warranty	24 Months					




SMART POWER INVERTER

Model	N600-121	N600-122	N600-241	N600-242	N600-481	N600-482
Rated Power	2000W					
Surge Power	4000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
LED Display	Volt, Watts, Protection Status					
N.W./Unit	2000g					
QTY/ Ctn	12 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	Sunpulse or OEM					
Remote Controller	with 5m wire					
Warranty	24 Months					




SMART POWER INVERTER



Model	N1000-121	N1000-122	N1000-241	N1000-242	N1000-481	N1000-482
Rated Power	1000W					
Surge Power	2000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
LED Display	Volt, Watts, Protection Status					
N.W./Unit	4000g					
QTY/ Ctn	4 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	Sunpulse or OEM					
Remote Controller	with 5m wire					
Warranty	24 Months					

SMART POWER INVERTER

Model	N2000-121	N2000-122	N2000-241	N2000-242	N2000-481	N2000-482
Rated Power	2000W					
Surge Power	4000W					
Output Voltage	110V	230V	110V	230V	110V	230V
Output Frequency	50/60Hz±3					
Soft Start	YES					
Output Waveform	Modified Sine Wave 					
USB Port	5V, 500mA(Optional)					
Protection Function	Bat. Low Voltage Alarm & Shut Down, Over Load, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage					
Input Voltage	12V		24V		48V	
LED Display	Volt, Watts, Protection Status					
N.W./Unit	6000g					
QTY/ Ctn	2 Pcs					
Meas./Ctn	46 x 31.5 x 38.5cm					
Packing	Gift box					
Brand	Sunpulse or OEM					
Remote Controller	with 5m wire					
Warranty	24 Months					





*Solar Charge Controller
Battery Charger*





SOLAR CHARGE CONTROLLER

Model	CD1210	CD1212	CD1215
System Voltage	12V		
Max. Charge Current	10A	12A	15A
Float Charge	13.7V		
Boost Charge	14.5V		
DC Load	10A	12A	15A
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	110g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	CD2410	CD2412	CD2415
System Voltage	24V		
Max. Charge Current	10A	12A	15A
Float Charge	27.4V		
Boost Charge	29V		
DC Load	10A	12A	15A
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	110g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





SOLAR CHARGE CONTROLLER

Model	C1210	C1212	C1215
System Voltage	12V		
Max. Charge Current	10A	12A	15A
Float Charge	13.7V		
Boost Charge	14.5V		
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	110g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	C2410	C2412	C2415
System Voltage	24V		
Max. Charge Current	10A	12A	15A
Float Charge	27.4V		
Boost Charge	29V		
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	110g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





SOLAR CHARGE CONTROLLER

Model	CD12/24-10	CD12/24-12	CD12/24-15
System Voltage	12V/24V Auto. Switch		
Max. Charge Current	10A	12A	15A
Float Charge	13.7V/27.4V		
Boost Charge	14.5V/29V		
DC Load	10A	12A	15A
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	120g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	C12/24-10	C12/24-12	C12/24-15
System Voltage	12V/24V Auto. Switch		
Max. Charge Current	10A	12A	15A
Float Charge	13.7V/27.4V		
Boost Charge	14.5V/29V		
Temp.Compensation	YES		
LED Indicator	2 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	8.5 x 7 x 3.6cm		
N.W./Unit	120g		
QTY/Ctn	100 Pcs		
Meas./Ctn	55.5 x 24.5 x 36cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





SOLAR CHARGE CONTROLLER

Model	CD1220	CD1225	CD1230
System Voltage	12V		
Max. Charge Current	20A	25A	30A
Float Charge	13.7V		
Boost Charge	14.5V		
DC Load	20A	25A	30A
Temp.Compensation	YES		
LED Indicator	3 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x9.1 x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	CD2420	CD2425	CD2430
System Voltage	24V		
Max. Charge Current	20A	25A	30A
Float Charge	27.4V		
Boost Charge	29V		
DC Load	20A	25A	30A
Temp.Compensation	YES		
LED Indicator	3 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x9.1 x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





SOLAR CHARGE CONTROLLER

Model	C1220	C1225	C1230
System Voltage	12V		
Max. Charge Current	20A	25A	30A
Float Charge	13.7V		
Boost Charge	14.5V		
Temp.Compensation	YES		
LED Indicator	4LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x 9.1x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	C2420	C2425	C2430
System Voltage	24V		
Max. Charge Current	20A	25A	30A
Float Charge	27.4V		
Boost Charge	29V		
Temp.Compensation	YES		
LED Indicator	3 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x9.1 x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





SOLAR CHARGE CONTROLLER

Model	CD12/24-20	CD12/24-25	CD12/24-30
System Voltage	12V/24V Auto. Switch		
Max. Charge Current	20A	25A	30A
Float Charge	13.7V/27.4V		
Boost Charge	14.5V/29V		
DC Load	20A	25A	30A
Temp.Compensation	YES		
LED Indicator	3 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x9.1 x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		

SOLAR CHARGE CONTROLLER

Model	C12/24-20	C12/24-25	C12/24-30
System Voltage	12V/24V Auto. Switch		
Max. Charge Current	20A	25A	30A
Float Charge	13.7V/27.4V		
Boost Charge	14.5V/29V		
Temp.Compensation	YES		
LED Indicator	4 LED Indicators for different charge status		
Case Color	Blue,silver,black optional		
Unit Size	11.5 x9.1 x 4.8cm		
N.W./Unit	280g		
QTY/Ctn	50 Pcs		
Meas./Ctn	51 x 30 x 26.5cm		
Packing	Gift Box		
Brand	CARSPA or OEM		
Certification	CE-EMC/LVD,RoHS		
Warranty	24 Months		





INDUSTRIAL SOLAR CHARGE CONTROLLER ASI SERIES (5~20A)

Model	SI12/24-05	SI12/24-10	SI12/24-20
System Voltage	12/24V Auto. recognition		
Max. Charge/Load Current	5A	10A	20A
Float Voltage	13.6V/27.2V(25)		
Main Voltage	14.4V/28.8V(25), 30min. (Daily)		
Boost Voltage	14.5V/29V(25), 2h, Activation: Battery Voltage< 12.3V/24.6V		
Equalization Voltage	14.8V/29.6V(25), 2 Std. Activation: Battery Voltage< 11V/22V(at least every 30days)		
Deep Discharge Protection Cut-off Voltage Reconnect Level	11.4-11.9V/ 22.8-23.8V 11V/ 12V		
Over-voltage Protection	15.5V/31V		
Under-voltage Protection	10.5V/21V		
Max. Panel Voltage(Over-voltage Protection by Varistor)	55V		
Temperature Compensation (Charge Voltage)	-4mV Cell*K		
Max. Self-consumption	5~8mA at 12V / 6~10mA at 24V		
Grounding	Positive Grounding Possible		
Ambient Temperature	-40~60		
Max. Height	4,000m above sea level		
Battery Type	Lead Acid (GEL, AGM, Flooded)		
Adjustable Range Evening/Morning hours Night/Day Detection	0~15h/0~14h 2.5~10V		
Wire Length	10cm		
Dimension(L x H x W)	80 x 96 x 26mm		
Weight	150g		
Wire Cross Section	1.5mm ²	1.5mm ²	2.5mm ²
Type of Protection	IP67 (1.5m, 72h)		
Dimming Value	0~100% Output Power		
Dimming Output Voltage	0~10V (Max. 1mA)		

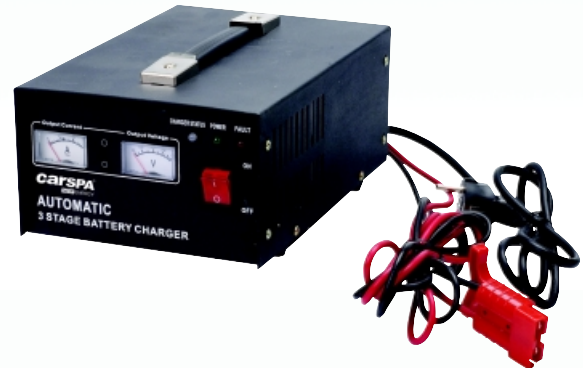


AUTOMATIC 3 STAGE BATTERY CHARGER

Model	ENC1209	ENC1212	ENC1220	ENC2406	ENC2410
Input Voltage	AC110(90-165V) or AC220(190-265V)				
Output Voltage	DC12V			DC24V	
Max.Charging Current	9A	12A	20A	6A	10A
Protection Function	AC fuse & output short-circuit,over current				
Charging Way	Automatic 3 stage Charging				
LED Indicator	3 LED Indicators for different charge status				
Temp.Compensation	Optional				
Temp.Sensor	Optional				
QTY/Ctn	20 Pcs				
Meas./Ctn	57 x 32 x 46.5mm(L x W x H)				
Packing	Gift Box				
Brand	CARSPA or OEM				
Certification	CE, RoHS, SONCAP				
Warranty	24 Months				

AUTOMATIC 3 STAGE BATTERY CHARGER

Model	ENC1225	ENC1230	ENC1240	ENC1250	ENC1260
Input Voltage	AC110(90-165V) or AC220(190-265V)				
Output Voltage	DC12V				
Max.Charging Current	25A	30A	40A	50A	60A
Protection Function	AC fuse & output short-circuit,over current				
Charging Way	Automatic 3 stage Charging				
LED Indicator	3 LED Indicators for different charge status				
Temp.Compensation	Optional				
Temp.Sensor	Optional				
QTY/Ctn	6 Pcs				
Meas./Ctn	56 x 33 x 60mm(L x W x H)				
Packing	Gift Box				
Brand	CARSPA or OEM				
Certification	CE, RoHS, SONCAP				
Warranty	24 Months				





AUTOMATIC 3 STAGE BATTERY CHARGER

Model	ENC2415	ENC2420	ENC2425	ENC2430
Input Voltage	AC110(90-165V) or AC220(190-265V)			
Output Voltage	DC24V			
Max.Charging Current	15A	20A	25A	30A
Protection Function	AC fuse & output short-circuit,over current			
Charging Way	Automatic 3 stage Charging			
LED Indicator	3 LED Indicators for different charge status			
Temp.Compensation	Optional			
Temp.Sensor	Optional			
QTY/Ctn	6 Pcs			
Meas./Ctn	56 x 33 x 60mm(L x W x H)			
Packing	Gift Box			
Brand	CARSPA or OEM			
Certification	CE, RoHS, SONCAP			
Warranty	24 Months			



France & Germany



Australia



USA



Universal



Small Europe Type



South Africa



UK



Italy



AUTOMATIC 3 STAGE BATTERY CHARGER

Model	ENC12/24-25	ENC12/24-30	ENC12/24-40	ENC12/24-50	ENC12/24-60
Input Voltage	AC110(90-165V) or AC220(190-265V)				
Output Voltage	DC12V/24V Auto. Distinguished				
Max.Charging Current	25A	30A	40A	50A	60A
Protection Function	AC fuse & output short-circuit,over current				
Charging Way	Automatic 3 stage Charging				
LED Indicator	3 LED Indicators for different charge status				
Temp.Compensation	Optional				
Temp.Sensor	Optional				
QTY/Ctn	6 Pcs				
Meas./Ctn	56 x 33 x 60mm(L x W x H)				
Packing	Gift Box				
Brand	CARSPA or OEM				
Certification	CE, RoHS, SONCAP				
Warranty	24 Months				



France & Germany



Australia



USA



Universal



Small Europe Type



South Africa



UK



Italy



*DC to DC Negative Booster
Automatic Voltage Switcher
Step-up & Down Transformer*





DC TO DC NEGATIVE BOOSTER

Model	CNT2412-05
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	5A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	72 x 89 x 47 mm
Unit Weight	0.2kg
QTY/Ctn	100Pcs
Meas./Ctn	43.8 x 38 x 41.2 cm
Certification	CE
Warranty	18 months

DC TO DC NEGATIVE BOOSTER

Model	CNT2412-10
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	10A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	110 x 89 x 47 mm
Unit Weight	0.3kg
QTY/Ctn	50Pcs
Meas./Ctn	43.8 x 38 x 41.2 cm
Certification	CE
Warranty	18 months





DC TO DC NEGATIVE BOOSTER

Model	CNT2412-15
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	15A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	148 x 89 x 47 mm
Unit Weight	0.45kg
QTY/Ctn	50Pcs
Meas./Ctn	43.8 x 38 x 41.2 cm
Certification	CE
Warranty	18 months

DC TO DC NEGATIVE BOOSTER

Model	CNT2412-20
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	20A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	182 x 89 x 47 mm
Unit Weight	0.6kg
QTY/Ctn	50Pcs
Meas./Ctn	43.8 x 38 x 41.2 cm
Certification	CE
Warranty	18 months





DC TO DC NEGATIVE BOOSTER

Model	CNT2412-30
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	30A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	274 x 89 x 47 mm
Unit Weight	0.9kg
QTY/Ctn	20Pcs
Meas./Ctn	56 x 31.4 x 22.8 cm
Certification	CE
Warranty	18 months

DC TO DC NEGATIVE BOOSTER

Model	CNT2412-60
Input Voltage	18V-32V
Output Voltage	12V±5%
Output Current	60A
Max. efficiency	>90%
Voltage Ripple	<120 mV
Over Voltage Stop	14V±0.5V
Protect Function	Short Circuit, Overload, Overvoltage
Unit Size	265 x 205 x 47 mm
Unit Weight	2.4kg
QTY/Ctn	10Pcs
Meas./Ctn	44 x 32 x 29.5 cm
Certification	CE
Warranty	18 months





AUTOMATIC VOLTAGE SWITCHER

Hivolt guard

- Over voltage protection
- Protection against :
 - ◆ Over-voltage
 - ◆ Surges /Spikes
 - ◆ Power back surges
 - ◆ Lightning

Maximum power	5 amps
Wait time	30 minutes
Ideal for	All sensitive electrical and electronic equipment especially TV, Video,Hi-Fi, Fax, Photocopier, cash registers, electronics scales, notebook PC's,etc.
Tip	Use special for over-voltage of 5 amps

AUTOMATIC VOLTAGE SWITCHER

Fridge guard

- Under voltage protection
- Protection against :
 - ◆ Under-voltage
 - ◆ Surges/Spikes
 - ◆ Power back surges
 - ◆ Lightning

Maximum power	5 amps
Wait time	30 seconds
Ideal for	Fridges,Freezers,coolers. All up to 5 amps maximum
Tip	Use special for under-voltage of 5 amps



AUTOMATIC VOLTAGE SWITCHER

Volt guard

- Over and under voltage protection
- Protection against :
 - ◆ Over-voltage
 - ◆ Surges/Spikes
 - ◆ Under-Voltage
 - ◆ Power back surges
 - ◆ Lightning

Maximum power	5 amps
Wait time	30 seconds
Ideal for	All sensitive electrical and electronic equipment especially TV, Video,Hi-Fi, Fax, Photocopier, cash registers, electronics scales, notebook PC's,etc.
Tip	Use special for over and under voltage of 5 amps





AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS13 micro)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	13 amps
Wait time	User adjustable from 15 seconds to 3 minutes
Ideal for	All electrical and electronic equipment
Tip	Can protect a number of appliances, using a multi-way socket

AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS15 micro)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	15 amps
Wait time	User adjustable from 1.5 minutes to 5 minutes
Ideal for	All conditioner, large fridge/freezers
Tip	Rated at 15 amps for use with air-conditioners up to 17.500 B.T.U



AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS13)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	13 amps
Wait time	30 seconds to 3 minutes
Ideal for	All electrical and electronic equipment
Tip	Can protect a number of appliances, using a multi-way socket





AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS15)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	15 amps
Wait time	30 seconds to 3 minutes
Ideal for	Air conditioner, large fridge/freezers
Tip	Rated at 15 amps for use with air-conditioners up to 17.500 B.T.U

AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS30 micro)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	30 amps
Wait time	User adjustable from 10 seconds to 10 minutes
Ideal for	Air-conditioner, large fridge/freezers, whole office, and complete circuits
Tip	Rated at 30 amps for use with air-conditioners. Direct wiring adds security of installation



AUTOMATIC VOLTAGE SWITCHER

Automatic voltage switcher (AVS30 3light)

■ Over and under voltage protection

■ Protection against :

- ◆ High voltage
- ◆ Low voltage
- ◆ Spikes /surges
- ◆ Power-back surges
- ◆ Lightning

Maximum power	30 amps
Wait time	30 seconds or 3 minutes
Ideal for	Air-conditioner, large fridge/freezers, whole office, and complete circuits
Tip	Rated at 30 amps for use with air-conditioners. Direct wiring adds security of installation



STEP-UP & DOWN TRANSFORMER

- ST series step-up&down transformer is an AC voltage converting device. Using it to convert the multi-kind net.voltage into a general output voltage under which all the electronic units are safe for use within the rated power range.
- Input Voltage : AC100-120V or 220-240V
- With fuse protector or with over current protector
- Output voltage : AC110V or 220V



Model	The rated power	External packing size	N.W.	G.W.	Qty per carton
ST-100	100W	39.5 x 31.5 x 22.5cm	17.5kg	18.5	12pcs/CTN
ST-200	200W	39.5 x 31.5 x 22.5cm	22.0kg	24	12pcs/CTN
ST-300	300W	35.5 x 31.5 x 24.5cm	22.0kg	23.5	8pcs/CTN
ST-500	500W	46 x 19 x 24.5cm	20.0kg	21.5	6pcs/CTN
ST-750	750W	31.5 x 22 x 24.5cm	18.5kg	19.5	4pcs/CTN
ST-1000	1000W	30 x 25.5 x 21.5cm	6kg	6.5	1pcs/CTN
ST-1500	1500W	30 x 25.5 x 21.5cm	8kg	8.5	1pcs/CTN
ST-2000	2000W	34 x 25.5 x 21.5cm	10kg	10.5	1pcs/CTN
ST-3000	3000W	34 x 25.5 x 21.5cm	12kg	12.5	1pcs/CTN
ST-4000	4000W	40.5 x 28.5 x 24cm	16.5kg	17	1pcs/CTN
ST-5000	5000W	40.5 x 28.5 x 24cm	18kg	18.5	1pcs/CTN
ST-10000	10000W	42.5 x 32 x 30cm	33kg	34	1pcs/CTN




Switching Power Supply
LED Switching Power Supply



COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-15W SERIES

Connector Wire Size: 5 x 6.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HS-15-5	HS-15-12	HS-15-24
DC Output	5V,0~3A	12V,0~1.3A	24V,0~0.7A
Output Voltage Range	±2%	±1%	±1%
Wave and Noise	80mV	100mV	150mV
Efficiency	76%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.25A/230V		
AC Inrush Current	Cold-start Current 30A/230V		
Leakage Current	<0.5mA/240VAC		
DC Adjustable Range	±10% Rated Output Voltage		
Overload Protection	105~150% Hiccup Mode, Restart		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	84 x 58 x 38mm		
Weight/ Packing	0.15Kg, 80pcs/13Kg		

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-25W SERIES

Connector Wire Size: 5 x 6.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HS-25-12	HS-25-15	HS-25-24
DC Output	12V,0~2.1A	15V,0~1.7A	24V,0~1.1A
Output Voltage Range	±1%	±1%	±1%
Wave and Noise	100mV	100mV	150mV
Efficiency	76%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.35A/230V		
AC Inrush Current	Cold-start Current 30A/230V		
Leakage Current	<0.5mA/240VAC		
DC Adjustable Range	±10% Rated Output Voltage		
Overload Protection	105~135% Hiccup Mode, Restart		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	84 x 58 x 38mm		
Weight/ Packing	0.15Kg, 80pcs/13Kg		





COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-35W SERIES

Connector Wire Size: 5 x 6.5mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V

Order No.	HS-35-5	HS-35-12	HS-35-15	HS-35-24
DC Output	5V,0~5A	12V,0~3A	15V,0~2.4A	24V,0~1.5A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	100mV	100mV	150mV
Efficiency	76%	78%	80%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	0.45A/230V			
AC Inrush Current	Cold-start Current 36A/230V			
Leakage Current	<2mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Hiccup Mode, Restart			
Setup Rise Hold-up Time	200ms 100ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	84 x 58 x 38mm			
Weight/ Packing	0.17Kg, 80pcs/14.5Kg			

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-40W SERIES

Connector Wire Size: 5 x 8.8mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V


Order No.	HS-40-12	HS-40-15	HS-40-24
DC Output	12V,0~3.5A	15V,0~2.8A	24V,0~1.8A
Output Voltage Range	±1%	±1%	±1%
Wave and Noise	100mV	100mV	150mV
Efficiency	78%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.55A/230V		
AC Inrush Current	Cold-start Current 36A/230V		
Leakage Current	<0.5mA/240VAC		
DC Adjustable Range	±10% Rated Output Voltage		
Overload Protection	105~150% Hiccup Mode, Restart		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	111 x 78 x 36mm		
Weight/ Packing	0.25Kg, 50pcs/13.5Kg		





COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-50W SERIES

Connector Wire Size: 5 x 8.8mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Order No.	HS-50-5	HS-50-12	HS-50-15	HS-50-24
DC Output	5V,0~7A	12V,0~4.2A	15V,0~3.4A	24V,0~2.1A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	100mV	100mV	150mV
Efficiency	78%	80%	80%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	0.65A/230V			
AC Inrush Current	Cold-start Current 36A/230V			
Leakage Current	<1mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~150% Hiccup Mode, Restart			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	111 x 78 x 36mm			
Weight/ Packing	0.26Kg, 50pcs/14Kg			

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-60W SERIES

Connector Wire Size: 5 x 8.8mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Order No.	HS-60-12	HS-60-15	HS-60-24
DC Output	12V,0~5A	15V,0~4A	24V,0~2.5A
Output Voltage Range	±1%	±1%	±1%
Wave and Noise	100mV	100mV	150mV
Efficiency	80%	80%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.9A/230V		
AC Inrush Current	Cold-start Current 36A/230V		
Leakage Current	<1mA/240VAC		
DC Adjustable Range	±10% Rated Output Voltage		
Overload Protection	105~135% Hiccup Mode, Restart		
Setup Rise Hold-up Time	200ms 100ms 20ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	111 x 78 x 36mm		
Weight/ Packing	0.27Kg, 50pcs/14.5Kg		





COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-75W SERIES

Connector Wire Size: 7 x 8.8mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V(COM)

Order No.	HS-75-5	HS-75-12	HS-75-15	HS-75-24
DC Output	5V,0~10A	12V,0~6.3A	15V,0~5A	24V,0~3.2A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	120mV	120mV	150mV
Efficiency	78%	82%	82%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	0.9A/230V			
AC Inrush Current	Cold-start Current 36A/230V			
Leakage Current	<1mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Hiccup Mode, Restart			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	111 x 78 x 36mm			
Weight/ Packing	0.3Kg, 50pcs/16Kg			

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-100W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V(COM)

Order No.	HS-100-5	HS-100-12	HS-100-15	HS-100-24	HS-100-27	HS-100-48
DC Output	5V,0~20A	12V,0~8.5A	15V,0~6.7A	24V,0~4.5A	27V,0~3.7A	48V,0~2A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	100mV	120mV	120mV	120mV	120mV	200mV
Efficiency	80%	82%	82%	84%	84%	86%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC					
Input Current	2.4A/115V 1.2A/230V					
AC Inrush Current	Cold-start Current 20A/115V 40A/230V					
Leakage Current	<1mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~150% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Setup Rise Hold-up Time	200ms 50ms 20ms					
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	159 x 98 x 38mm					
Weight/ Packing	0.48Kg, 45pcs/22.5Kg					





COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-120W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V(COM)

Order No.	HS-120-7.5	HS-120-12	HS-120-15	HS-120-24	HS-120-27	HS-120-48
DC Output	7.5V,0~16A	12V,0~10A	15V,0~8A	24V,0~5A	27V,0~4.5A	48V,0~2.5A
Output Voltage Range	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	100mV	120mV	120mV	120mV	120mV	200mV
Efficiency	80%	82%	82%	84%	84%	86%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC					
Input Current	2.4A/115V 1.2A/230V					
AC Inrush Current	Cold-start Current 20A/115V 40A/230V					
Leakage Current	<1mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~150% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Setup Rise Hold-up Time	200ms 50ms 20ms					
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	159 x 98 x 38mm					
Weight/ Packing	0.48Kg, 45pcs/22.5Kg					

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-150W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V(COM)

Order No.	HS-150-7.5	HS-150-9	HS-150-12	HS-150-13.5	HS-150-15	HS-150-24	HS-150-27	HS-150-48
DC Output	7.5V,0~20A	9V,0~16.7A	12V,0~12.5A	13.5V,0~11.2A	15V,0~10A	24V,0~6.5A	27V,0~5.6A	48V,0~3.2A
Output Voltage Range	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	100mV	120mV	120mV	120mV	120mV	120mV	120mV	200mV
Efficiency	80%	80%	82%	83%	84%	85%	86%	87%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC							
Input Current	3.2A/115V 1.6A/230V							
AC Inrush Current	Cold-start Current 20A/115V 40A/230V							
Leakage Current	<3.5mA/240VAC							
DC Adjustable Range	±10% Rated Output Voltage							
Overload Protection	105~150% Hiccup Mode, Restart							
Over-voltage Protection	115~135% Cut off the Output, Restart							
Setup Rise Hold-up Time	200ms 50ms 20ms							
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.							
Working Temperature	-10~+60°C, 20%~90% RH							
Size	159 x 98 x 38mm							
Weight/ Packing	0.54Kg, 45pcs/25Kg							



COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-200W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V(COM)



Model	HS-200-5	HS-200-9	HS-200-12	HS-200-13.5	HS-200-15	HS-200-24	HS-200-27	HS-200-48
DC Output	5V,0~40A	9V,0~22A	12V,0~16.5A	13.5V,0~14.7A	15V,0~13A	24V,0~8.3A	27V,0~7.4A	48V,0~4.2A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	120mV	150mV	150mV	150mV	150mV	150mV	150mV	200mV
Efficiency	78%	80%	82%	82%	82%	84%	84%	86%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC							
Input Current	4.5A/115V 2.5A/230V							
AC Inrush Current	Cold-start Current 25A/115V 50A/230V							
Leakage Current	<3.5mA/240VAC							
DC Adjustable Range	±10% Rated Output Voltage							
Overload Protection	105~135% Hiccup Mode, Restart							
Over-voltage Protection	115~135% Cut off the Output, Restart							
Over-temp. Protection	Rectifier ≥ 105°C Cut off the Output, Restart(5V)							
Setup Rise Hold-up Time	200ms 100ms 20ms							
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.							
Working Temperature	-10~+60°C, 20%~90% RH							
Size	199 x 98 x 50mm							
Weight/ Packing	0.7Kg, 24pcs/17.5Kg							

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-250W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V(COM)

Model	HS-250-12	HS-250-15	HS-250-24	HS-250-27	HS-250-48
DC Output	12V,0~20A	15V,0~16A	24V,0~10A	24V,0~9A	48V,0~5.2A
Output Voltage Range	±1%	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	150mV	200mV
Efficiency	79%	80%	82%	82%	84%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC				
Input Current	5.0A/115V 2.5A/230V				
AC Inrush Current	Cold-start Current 25A/115V 50A/230V				
Leakage Current	<3.5mA/240VAC				
DC Adjustable Range	±10% Rated Output Voltage				
Overload Protection	105~135% Hiccup Mode, Restart				
Over-voltage Protection	115~135% Cut off the Output, Restart				
Over-temp. Protection	Rectifier ≥ 90°C Cut off the Output, Restart				
Setup Rise Hold-up Time	200ms 100ms 20ms				
Withstand Voltage	I/P-O/P:1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.				
Working Temperature	-10~+60°C, 20%~90% RH				
Size	199 x 98 x 50mm				
Weight/ Packing	0.7Kg, 24pcs/17.5Kg				





COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-350W SERIES

Connector Wire Size: 9 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HS-350-5	HS-350-12	HS-350-15	HS-350-24	HS-350-27	HS-350-48
DC Output	5V,0~50A	12V,0~29A	15V,0~23.2A	24V,0~14.6A	27V,0~13A	48V,0~7.3A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	150mV	150mV	200mV
Efficiency	78%	80%	80%	82%	82%	84%
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC					
Input Current	6.5A/115V 4A/230V					
AC Inrush Current	Cold-start Current 25A/115V 50A/230V					
Leakage Current	<3.5mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Over-temp. Protection	Rectifier ≥ 90°C Cut off the Output, Restart					
Setup Rise Hold-up Time	200ms 50ms 20ms					
Withstand Voltage	I/P-O/P:1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	199 x 110 x 50mm					
Weight/ Packing	0.95Kg, 24pcs/23.5Kg					

COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-500W SERIES

Connector Wire Size: 9 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HS-500-12	HS-500-13.5	HS-500-15	HS-500-24	HS-500-27	HS-500-48
DC Output	12V,0~40A	13.5V,0~36A	15V,0~32A	24V,0~20A	27V,0~18A	48V,0~10A
Output Voltage Range	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	240mV	240mV	240mV	240mV	240mV	300mV
Efficiency	80%	80%	82%	82%	82%	84%
AC Input Voltage Range	180~264VAC 47~63Hz; 240~370VDC					
Input Current	5A/230V					
AC Inrush Current	Cold-start Current 50A/230V					
Leakage Current	<3.5mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Over-temp. Protection	Rectifier ≥ 90°C Cut off the Output, Restart					
Fan ON/OFF Control	≥ 55°C Fan Start, ≤ 45°C Fan off					
Setup Rise Hold-up Time	800ms 50ms 20ms					
Withstand Voltage	I/P-O/P:1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	238 x 124 x 65mm					
Weight/ Packing	1.45Kg, 12pcs/18Kg					



COMPACT SINGLE OUTPUT SWITCHING POWER SUPPLY HS-600W SERIES

Connector Wire Size: 9 x 9.5mm

L, N: AC Input ⚡: Earth Ground DC Output: +V, -V



Model	HS-600-5	HS-600-12	HS-600-13.5	HS-600-15	HS-600-24	HS-600-27	HS-600-48
DC Output	5V,0~80A	12V,0~50A	13.5V,0~44.5A	15V,0~40A	24V,0~25A	27V,0~22A	48V,0~12.5A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	150mV	240mV	240mV	240mV	240mV	240mV	300mV
Efficiency	78%	80%	80%	82%	82%	82%	84%
AC Input Voltage Range	180~264VAC 47~63Hz; 240~370VDC						
Input Current	6.5A/230V						
AC Inrush Current	Cold-start Current 50A/230V						
Leakage Current	<3.5mA/240VAC						
DC Adjustable Range	±10% Rated Output Voltage						
Overload Protection	105~135% Cut off the Output, Restart						
Over-voltage Protection	115~135% Cut off the Output, Restart						
Over-temp. Protection	Rectifier ≥ 90°C Cut off the Output, Restart						
Setup Rise Hold-up Time	800ms 50ms 20ms						
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.						
Working Temperature	-10~+60°C, 20%~90% RH						
Size	238 x 124 x 65mm						
Weight/ Packing	1.5Kg, 12pcs/19Kg						

HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSF-35W SERIES

Connector Wire Size: 5 X 6.5mm

L, N: AC Input ⚡: Earth Ground DC Output: +V, -V


Model	HSF-35-5	HSF-35-12	HSF-35-15	HSF-35-24
DC Output	5V,0~7A	12V,0~3A	15V,0~2.4A	24V,0~1.5A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	120mV	120mV	120mV
Efficiency	78%	80%	82%	82%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC			
Input Current	0.8A/115V 0.4A/230V			
AC Inrush Current	Cold-start Current 15A/115V 30A/230V			
Leakage Current	<2mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Hiccup Mode, Restart			
Over-voltage. Protection	115~135% Cut off the Output, Restart			
Setup Rise Hold-up Time	500ms 30ms 80ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	84 x 58 x 38mm			
Weight/ Packing	0.17Kg, 80pcs/14.5Kg			





HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSF-50W SERIES

Connector Wire Size: 5 X 8.8mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HSF-50-5	HSF-50-12	HSF-50-15	HSF-50-24
DC Output	5V,0~10A	12V,0~4.2A	15V,0~3.4A	24V,0~2.1A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	120mV	120mV	120mV
Efficiency	78%	82%	82%	84%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC			
Input Current	1.1A/115V 0.6A/230V			
AC Inrush Current	Cold-start Current 18A/115V 36A/230V			
Leakage Current	<1mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Setup Rise Hold-up Time	500ms 20ms 60ms			
Withstand Voltage	I/P-O/P:1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	111 x 78 x 36mm			
Weight/ Packing	0.27Kg, 50pcs/14.5Kg			

HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSF-75W SERIES

Connector Wire Size: 5 X 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HSF-75-5	HSF-75-12	HSF-75-15	HSF-75-24
DC Output	5V,0~15A	12V,0~6.3A	15V,0~5A	24V,0~3.2A
Output Voltage Range	±2%	±1%	±1%	±1%
Wave and Noise	80mV	120mV	120mV	120mV
Efficiency	76%	82%	83%	85%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC			
Input Current	1.6A/115V 0.85A/230V			
AC Inrush Current	Cold-start Current 18A/115V 36A/230V			
Leakage Current	<2mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Hiccup Mode, Auto-recovery			
Over-voltage Protection	115~135% Cut off the Output, Auto-recovery			
Setup Rise Hold-up Time	500ms 20ms 60ms			
Withstand Voltage	I/P-O/P:3KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	129 x 98 x 38mm			
Weight/ Packing	0.4Kg, 45pcs/19Kg			





HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSF-100W SERIES

Connector Wire Size: 7 x 9.5mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V(COM)

Model	HSF-100-5	HSF-100-12	HSF-100-15	HSF-100-24	HSF-100-27	HSF-100-48
DC Output	5V,0~20A	12V,0~8.5A	15V,0~6.7A	24V,0~4.5A	27V,0~3.7A	48V,0~2A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	80mV	120mV	120mV	120mV	120mV	200mV
Efficiency	80%	82%	82%	84%	86%	86%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC					
Input Current	2.2A/115V 1.2A/230V					
AC Inrush Current	Cold-start Current 18A/115V 36A/230V					
Leakage Current	<1mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Setup Rise Hold-up Time	600ms 30ms 20ms					
Withstand Voltage	I/P-O/P: 3KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	159 x 98 x 38mm					
Weight/ Packing	0.48Kg, 45pcs/22.5Kg					

HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSP-150W SERIE(SUBSTRATE TYPE)

Connector Wire Size: 7 x 9.5mm

L, N: AC Input ⊕ : Earth Ground DC Output: +V, -V(COM)

Model	HSP-150-5	HSP-150-7.5	HSP-150-12	HSP-150-15	HSP-150-24	HSP-150-48
DC Output	5V,0~30A	7.5V,0~20A	12V,0~12.5A	15V,0~10A	24V,0~6.3A	48V,0~3.2A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	100mV	100mV	100mV	100mV	150mV	240mV
Efficiency	80%	80%	82%	82%	84%	84%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC					
Input Current	1.9A/115V 1A/230V					
AC Inrush Current	Cold-start Current 18A/115V 36A/230V					
Power Factor	PF ≥ 0.95/115VAC PF ≥ 0.93/230VAC					
Leakage Current	<3.5mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Over-temp. Protection	Power Transistor ≥ 90° Cut off the output, Restart					
Setup Rise Hold-up Time	600ms 30ms 20ms					
Withstand Voltage	I/P-O/P: 3KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-20~+60°C, 20%~90% RH					
Size	199 x 98 x 38mm					
Weight/ Packing	0.75Kg, 30pcs/23.5Kg					





HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSP-200W SERIE(SUBSTRATE TYPE)

Connector Wire Size: 9 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HSP-200-5	HSP-200-12	HSP-200-15	HSP-200-24	HSP-200-48
DC Output	5V,0~40A	12V,0~16.5A	15V,0~13A	24V,0~8.3A	48V,0~4.2A
Output Voltage Range	±2%	±1%	±1%	±1%	±1%
Wave and Noise	100mV	100mV	100mV	150mV	240mV
Efficiency	78%	82%	82%	84%	86%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC				
Input Current	2.7A/115V 1.4A/230V				
AC Inrush Current	Cold-start Current 25A/115V 50A/230V				
Power Factor	PF ≥ 0.95/115VAC PF ≥ 0.93/230VAC				
Leakage Current	<3.5mA/240VAC				
DC Adjustable Range	±10% Rated Output Voltage				
Overload Protection	105~135% Hiccup Mode, Restart				
Over-voltage Protection	115~135% Cut off the Output, Restart				
Over-temp. Protection	Power Transistor ≥ 90° Cut off the output, Restart				
Setup Rise Hold-up Time	600ms 30ms 20ms				
Withstand Voltage	I/P-O/P: 3KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.				
Working Temperature	-20~+60°C, 20%~90% RH				
Size	199 x 110 x 50mm				
Weight/ Packing	0.95Kg, 24pcs/23.5Kg				

HIGH EFFICIENCY SINGLE OUTPUT SWITCHING POWER SUPPLY HSP-320W SERIE(SUBSTRATE TYPE)

Connector Wire Size: 9 x 9.5mm

L, N: AC Input  : Earth Ground DC Output: +V, -V

Model	HSP-320-12	HSP-320-13.5	HSP-320-15	HSP-320-24	HSP-320-27	HSP-320-48
DC Output	12V,0~25A	13.5V,0~22A	15V,0~20A	24V,0~13A	27V,0~11.7A	48V,0~6.5A
Output Voltage Range	±1%	±1%	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	150mV	200mV	240mV
Efficiency	82%	83%	84%	86%	86%	87%
AC Input Voltage Range	88~264VAC 47~63Hz; 125~370VDC					
Input Current	4.2A/115V 2.2A/230V					
AC Inrush Current	Cold-start Current 25A/115V 50A/230V					
Power Factor	PF ≥ 0.95/115VAC PF ≥ 0.93/230VAC					
Leakage Current	<3.5mA/240VAC					
DC Adjustable Range	±10% Rated Output Voltage					
Overload Protection	105~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Over-temp. Protection	Power Transistor ≥ 90° Cut off the output, Restart					
Setup Rise Hold-up Time	800ms 50ms 16ms					
Withstand Voltage	I/P-O/P: 3KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-20~+60°C, 20%~90% RH					
Size	215 x 115 x 50mm					
Weight/ Packing	1.0Kg, 24pcs/25Kg					





COMMON DUAL OUTPUT SWITCHING POWER SUPPLY D-30 SERIES

Connector Wire Size: 7 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2

Model	D-30A		D-30B	
DC Output	5V, 0.5~4A	12V,0.1~1A	5V,0.5~4A	24V,0.1~1A
Output Voltage Range	±2%	±3-7%	±2%	±3-5%
Wave and Noise	50mV	100mV	50mV	100mV
Efficiency	72%		74%	
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC			
Input Current	0.8A/115V 0.45A/230V			
AC Inrush Current	Cold-start Current 18A/115A 36A/230V			
Leakage Current	<0.5mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~150% Cut off the Output, Restart			
Setup Rise Hold-up Time	200ms 50ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	129 x 98 x 38mm			
Weight/ Packing	0.4Kg, 45pcs/19Kg			

COMMON DUAL OUTPUT SWITCHING POWER SUPPLY D-50 SERIES

Connector Wire Size: 7 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V, +V

Model	D-50A		D-50B	
DC Output	5V, 1~6A	12V,0.3~2A	5V,1~6A	24V,0.2~1A
Output Voltage Range	±2%	+5,-8%	±2%	±8%
Wave and Noise	50mV	100mV	50mV	100mV
Efficiency	73%		73%	
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.3A/115V 0.65A/230V			
AC Inrush Current	Cold-start Current 18A/115A 36A/230V			
Leakage Current	<0.5mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~150% Cut off the Output, Restart			
Setup Rise Hold-up Time	200ms 50ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	159 x 98 x 38mm			
Weight/ Packing	0.52Kg, 45pcs/24Kg			





COMMON DUAL OUTPUT SWITCHING POWER SUPPLY D-60 SERIES

Connector Wire Size: 7 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2

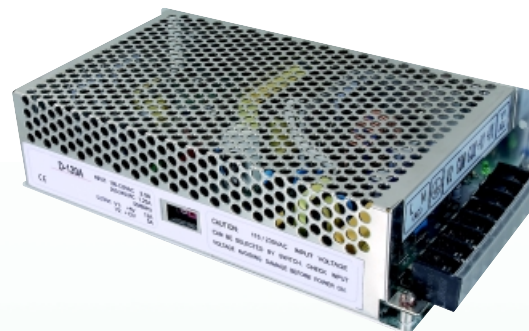
Model	D-60A		D-60B	
DC Output	5V, 0.3~6A	12V,0.2~4A	5V,0.3~6A	24V,0.2~2.2A
Output Voltage Range	±2%	±6%	±2%	±5%
Wave and Noise	75mV	150mV	75mV	150mV
Efficiency	73%		76%	
AC Input Voltage Range	85~264VAC 47~63Hz; 120~370VDC			
Input Current	2A/115V 1A/230V			
AC Inrush Current	Cold-start Current 18A/115A 36A/230V			
Leakage Current	<0.5mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~150% Cut off the Output, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Setup Rise Hold-up Time	300ms 50ms 80ms/230VAC			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	159 x 98 x 38mm			
Weight/ Packing	0.55Kg, 45pcs/25.5Kg			

COMMON DUAL OUTPUT SWITCHING POWER SUPPLY D-120 SERIES

Connector Wire Size: 8 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1, +V2

Model	D-120A		D-120B	
DC Output	5V, 2~12A	12V,0.5~5A	5V,2~10A	24V,0.4~4A
Output Voltage Range	±2%	±6%	±2%	±7%
Wave and Noise	60mV	120mV	60mV	150mV
Efficiency	78%		80%	
AC Input Voltage Range	88~132VAC/170~264VAC 47~63Hz; 240~370VDC			
Input Current	2.5A/115V 1.25A/230V			
AC Inrush Current	Cold-start Current 20A/115A 40A/230V			
Leakage Current	<3.5mA/240VAC			
DC Adjustable Range	±10% Rated Output Voltage			
Overload Protection	105~135% Cut off the Output, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Setup Rise Hold-up Time	200ms 50ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	199 x 110 x 50mm			
Weight/ Packing	0.85Kg, 24pcs/21Kg			



COMMON TRIPLE OUTPUT SWITCHING POWER SUPPLY T-50 SERIES

Connector Wire Size: 7 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2,-V3

Model	T-50A			T-50B			T-50C			T-50D		
DC Output	5V, 0.6~7A	12V, 0.2~1A	-5V, 0.2~1A	5V, 0.6~5A	12V, 0.2~1A	24V, 0.2~1A	5V, 0.6~4A	15V, 0.2~1A	-15V, 0.2~1A	5V, 0.6~4A	12V, 0.2~1.2A	24V, 0.2~1.2A
Output Voltage Range	±2%	±5%	±5%	±2%	±5%	±5%	±2%	±5%	±5%	±2%	±6%	±6%
Wave and Noise	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	50mV	120mV	120mV
Efficiency	66%			69%			71%			72%		
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC											
Input Current	1.6A/115V 0.8A/230V											
AC Inrush Current	Cold-start Current 20A/115A 40A/230V											
Leakage Current	<0.5mA/240VAC											
DC Adjustable Range	±10% Rated Output Voltage											
Overload Protection	105~150% Cut off the Output, Restart											
Setup Rise Hold-up Time	200ms 50ms 16ms											
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.											
Working Temperature	-10~+60°C, 20%~90% RH											
Size	159 x 98 x 38mm											
Weight/ Packing	0.54Kg, 45pcs/25Kg											

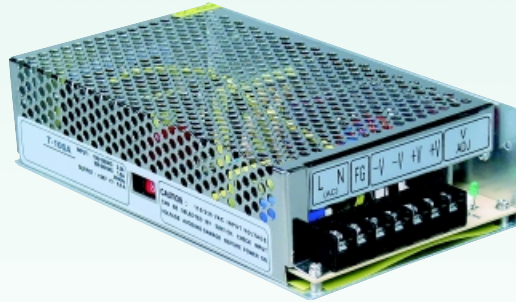
COMMON TRIPLE OUTPUT SWITCHING POWER SUPPLY T-60 SERIES

Connector Wire Size: 7 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2,-V3

Model	T-60A			T-60B			T-60C		
DC Output	5V, 0.5~7A	12V, 0.2~3.5A	-5V, 0~1A	5V, 0.5~7A	12V, 0.2~3.5A	-12V, 0~1A	5V, 0.5~7A	15V, 0.2~3A	-15V, 0~1A
Output Voltage Range	±2%	±6%	±6%	±2%	±6%	±6%	±2%	±6%	±6%
Wave and Noise	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
Efficiency	72%			72%			72%		
AC Input Voltage Range	88~264VAC 47~63Hz; 120~370VDC								
Input Current	2A/115V 1A/230V								
AC Inrush Current	Cold-start Current 30A/115A 60A/230V								
Leakage Current	<3.5mA/240VAC								
DC Adjustable Range	±10% Rated Output Voltage								
Overload Protection	105~150% Cut off the Output, Restart								
Over-voltage Protection	115~135% Cut off the Output, Restart								
Setup Rise Hold-up Time	300ms 50ms 80ms/230VAC								
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.								
Working Temperature	-10~+60°C, 20%~90% RH								
Size	159 x 98 x 38mm								
Weight/ Packing	0.56Kg, 45pcs/26Kg								





COMMON TRIPLE OUTPUT SWITCHING POWER SUPPLY T-100 SERIES

Connector Wire Size: 8 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2,-V3

Model	T-100A			T-100B			T-100C		
DC Output	5V, 2~8A	12V, 0.5~4A	-5V, 0.2~1A	5V, 2~8A	12V, 0.5~4A	-12V, 0.2~1A	5V, 2~8A	15V, 0.5~4A	-15V, 0.2~1A
Output Voltage Range	±2%	±6%	±6%	±2%	±6%	±6%	±2%	±10,-5%	±10,-5%
Wave and Noise	80mV	120mV	80mV	80mV	120mV	120mV	80mV	150mV	150mV
Efficiency	77%			77%			76%		
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC								
Input Current	2.5A/115V			1.25A/230V					
AC Inrush Current	Cold-start Current 30A/115A 60A/230V								
Leakage Current	<3.5mA/240VAC								
DC Adjustable Range	±10% Rated Output Voltage								
Overload Protection	105~135% Cut off the Output, Restart								
Over-voltage Protection	115~135% Cut off the Output, Restart								
Setup Rise Hold-up Time	800ms 20ms 20ms								
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.								
Working Temperature	-10~+60°C, 20%~90% RH								
Size	199 x 110 x 50mm								
Weight/ Packing	0.85Kg, 24pcs/21.5Kg								

COMMON TRIPLE OUTPUT SWITCHING POWER SUPPLY T-120 SERIES

Connector Wire Size: 8 x 9.5mm L, N: AC Input

⊕:Earth Ground COM: DC Output Public Ground DC Output: +V1,+V2,-V3

Model	T-120A			T-120B			T-120C		
DC Output	5V, 2~12A	12V, 0.5~5A	-5V, 0.2~1A	5V, 2~12A	12V, 0.5~5A	-12V, 0.2~1A	5V, 2~12A	15V, 0.5~5A	-15V, 0.2~1A
Output Voltage Range	±2%	±6%	±6%	±2%	±6%	±6%	±2%	±10,-5%	±10,-5%
Wave and Noise	80mV	120mV	80mV	80mV	120mV	120mV	80mV	150mV	150mV
Efficiency	77%			77%			76%		
AC Input Voltage Range	85~132VAC/170~264VAC 47~63Hz; 240~370VDC								
Input Current	2.5A/115V			1.25A/230V					
AC Inrush Current	Cold-start Current 30A/115A 60A/230V								
Leakage Current	<3.5mA/240VAC								
DC Adjustable Range	±10% Rated Output Voltage								
Overload Protection	105~135% Cut off the Output, Restart								
Over-voltage Protection	115~135% Cut off the Output, Restart								
Setup Rise Hold-up Time	800ms 20ms 20ms								
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.								
Working Temperature	-10~+60°C, 20%~90% RH								
Size	199 x 110 x 50mm								
Weight/ Packing	0.85Kg, 24pcs/21.5Kg								



**LED CONSTANT VOLTAGE WATERPROOF SWITCHING
POWER SUPPLY LPV-12W SERIES**

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue DC Output: +V red, -V Black



Model	LPV-12-12	LPV-12-15	LPV-12-24
DC Output	12V,0~1A	15V,0~0.8A	24V,0~0.5A
Output Voltage Range	±5%	±5%	±5%
Wave and Noise	100mV	100mV	150mV
Efficiency	78%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.1A/230V		
AC Inrush Current	Cold-start Current 30A/230V		
Leakage Current	<0.5mA/240VAC		
Overload Protection	115~135% Hiccup Mode, Restart		
Over-temp. Protection	≥ 105°C Hiccup Mode, Restart		
Water Level	IP67		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	132 x 30 x 20mm		
Weight/ Packing	0.15Kg,120pcs/19Kg		

**LED CONSTANT CURRENT WATERPROOF SWITCHING
POWER SUPPLY LPA-20W SERIES**

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue DC Output: +V red, -V Black

Model	LPA-20-310	LPA-20-700
DC Output	50~70V,310mA	18~30V,700mA
Output Voltage Range	±5%	±5%
Wave and Noise	50mV	50mV
Efficiency	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC	
Input Current	0.28A/230V	
AC Inrush Current	Cold-start Current 30A/230V	
Leakage Current	<0.5mA/240VAC	
Overload Protection	102~107% Hiccup Mode, Restart	
Over-temp. Protection	≥ 105°C Hiccup Mode, Restart	
Water Level	IP67	
Setup Rise Hold-up Time	200ms 100ms 30ms	
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.	
Working Temperature	-10~+60°C, 20%~90% RH	
Size	182 x 30 x 20mm	
Weight/ Packing	0.22Kg,80pcs/18.5Kg	





LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-30W SERIES

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue DC Output: +V red, -V Black

Model	LPV-30-12	LPV-30-15	LPV-30-24
DC Output	12V,0~2.5A	15V,0~2A	24V,0~1.3A
Output Voltage Range	±5%	±5%	±5%
Wave and Noise	100mV	100mV	150mV
Efficiency	78%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.42A/230V		
AC Inrush Current	Cold-start Current 30A/230V		
Leakage Current	<0.5mA/240VAC		
Overload Protection	102~107% Hiccup Mode, Restart		
Over-temp. Protection	≥ 105°C Hiccup Mode, Restart		
Water Level	IP67		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	222 x 30 x 20mm		
Weight/ Packing	0.25Kg,80pcs/21Kg		

LED CONSTANT CURRENT WATERPROOF SWITCHING POWER SUPPLY LPA-36W SERIES

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue DC Output: +V red, -V Black

Model	LPA-36-310	LPA-36-700	LPA-36-1050
DC Output	60~110V,310mA	20~50V,700mA	15~33V,1050mA
Output Voltage Range	±5%	±5%	±5%
Wave and Noise	100mV	150mV	150mV
Efficiency	82%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.42A/230V		
AC Inrush Current	Cold-start Current 30A/230V		
Leakage Current	<0.5mA/240VAC		
Overload Protection	102~107% Hiccup Mode, Restart		
Over-temp. Protection	≥ 105°C Hiccup Mode, Restart		
Water Level	IP67		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	222 x 30 x 20mm		
Weight/ Packing	0.25Kg,80pcs/21Kg		





LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-50W SERIES

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue ⚡:Yellowgreen DC Output: +V red, -V Black

Model	LPV-50-12	LPV-50-15	LPV-50-24
DC Output	12V,0~4.2A	15V,0~3.4A	24V,0~2.1A
Output Voltage Range	±5%	±5%	±5%
Wave and Noise	100mV	150mV	150mV
Efficiency	78%	78%	80%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC		
Input Current	0.65A/230V		
AC Inrush Current	Cold-start Current 36A/230V		
Leakage Current	<0.5mA/240VAC		
Overload Protection	115~135% Hiccup Mode, Restart		
Over-voltage Protection	115~135% Cut off the Output, Restart		
Over-temp. Protection	≥ 85°C Cut off the Output, Restart		
Water Level	IP67		
Setup Rise Hold-up Time	200ms 100ms 30ms		
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.		
Working Temperature	-10~+60°C, 20%~90% RH		
Size	190 x 48 x 38mm		
Weight/ Packing	0.6Kg,30pcs/19Kg		

LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-60W SERIES

Connector Wire Size: 20cm

AC Input: L-Brown N-Blue ⚡:Yellowgreen DC Output: +V red, -V Black


Model	LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-48
DC Output	5V,0~10A	12V,0~5A	15V,0~4A	24V,0~2.5A	48V,0~1.3A
Output Voltage Range	±5%	±5%	±5%	±5%	±5%
Wave and Noise	100mV	100mV	150mV	150mV	150mV
Efficiency	78%	78%	80%	82%	82%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC				
Input Current	0.9A/230V				
AC Inrush Current	Cold-start Current 36A/230V				
Leakage Current	<1mA/240VAC				
Overload Protection	115~135% Hiccup Mode, Restart				
Over-voltage Protection	115~135% Cut off the Output, Restart				
Over-temp. Protection	≥ 85°C Cut off the Output, Restart				
Water Level	IP67				
Setup Rise Hold-up Time	200ms 100ms 30ms				
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG: 1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.				
Working Temperature	-10~+60°C, 20%~90% RH				
Size	215 x 48 x 38mm				
Weight/ Packing	0.75Kg,25pcs/19.5Kg				





LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-80W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue :Yellowgreen DC Output: +V red, -V Black

Model	LPV-80-12	LPV-80-15	LPV-80-24	LPV-80-48
DC Output	12V,0~6.7A	15V,0~5.3A	24V,0~3.3A	48V,0~1.7A
Output Voltage Range	±5%	±5%	±5%	±5%
Wave and Noise	100mV	150mV	150mV	150mV
Efficiency	78%	80%	82%	82%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.0A/230V			
AC Inrush Current	Cold-start Current 36A/230V			
Leakage Current	<1mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	≥ 85°C Cut off the Output, Restart			
Water Level	IP67			
Setup Rise Hold-up Time	200ms 100ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	180 x 69 x 43mm			
Weight/ Packing	0.9Kg,20pcs/19Kg			

LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-100W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue :Yellowgreen DC Output: +V red, -V Black

Model	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-48
DC Output	12V,0~8.5A	15V,0~6.7A	24V,0~4.5A	48V,0~2.0A
Output Voltage Range	±5%	±5%	±5%	±5%
Wave and Noise	100mV	100mV	150mV	150mV
Efficiency	81%	81%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.2A/230V			
AC Inrush Current	Cold-start Current 40A/230V			
Leakage Current	<1mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	≥ 85°C Cut off the Output, Restart			
Water Level	IP67			
Setup Rise Hold-up Time	200ms 100ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	222 x 69 x 43mm			
Weight/ Packing	1.2Kg,20pcs/25Kg			





LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-120W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue ⊕:Yellowgreen DC Output: +V red, -V Black

Model	LPV-120-12	LPV-120-15	LPV-120-24	LPV-120-48
DC Output	12V,0~10A	15V,0~8A	24V,0~5A	48V,0~2.5A
Output Voltage Range	±5%	±5%	±5%	±5%
Wave and Noise	100mV	100mV	150mV	150mV
Efficiency	81%	81%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.2A/230V			
AC Inrush Current	Cold-start Current 40A/230V			
Leakage Current	<1mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	≥ 85°C Cut off the Output, Restart			
Water Level	IP67			
Setup Rise Hold-up Time	200ms 100ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	222 x 69 x 43mm			
Weight/ Packing	1.2Kg,20pcs/25Kg			

LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-150W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue ⊕:Yellowgreen DC Output: +V red, -V Black


Model	LPV-150-12	LPV-150-15	LPV-150-24	LPV-150-48
DC Output	12V,0~12.5A	15V,0~10A	24V,0~6.3A	48V,0~3.2A
Output Voltage Range	±5%	±5%	±5%	±5%
Wave and Noise	120mV	120mV	120mV	150mV
Efficiency	81%	81%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.6A/230V			
AC Inrush Current	Cold-start Current 40A/230V			
Leakage Current	<3.5mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	≥ 85°C Cut off the Output, Restart			
Water Level	IP67			
Setup Rise Hold-up Time	200ms 100ms 30ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	245 x 70 x 43mm			
Weight/ Packing	1.5Kg,16pcs/25Kg			





LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-200W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue :Yellowgreen DC Output: +V red, -V Black

Model	LPV-200-12	LPV-200-13.5	LPV-200-15	LPV-200-24	LPV-200-27	LPV-200-48
DC Output	12V,0~16.5A	13.5V,0~14.7A	15V,0~13A	24V,0~8.3A	27V,0~7.4A	48V,0~4.2A
Output Voltage Range	±5%	±5%	±5%	±5%	±5%	±5%
Wave and Noise	150mV	150mV	150mV	150mV	150mV	200mV
Efficiency	80%	82%	84%	84%	86%	86%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC					
Input Current	2.5A/230V					
AC Inrush Current	Cold-start Current 50A/230V					
Leakage Current	<3.5mA/240VAC					
Overload Protection	115~135% Hiccup Mode, Restart					
Over-voltage Protection	115~135% Cut off the Output, Restart					
Over-temp. Protection	≥ 85°C Cut off the Output, Restart					
Water Level	IP67					
Setup Rise Hold-up Time	200ms 100ms 30ms					
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.					
Working Temperature	-10~+60°C, 20%~90% RH					
Size	235 x 120 x 53mm					
Weight/ Packing	2.8Kg,9pcs/26.5Kg					

LED CONSTANT VOLTAGE WATERPROOF SWITCHING POWER SUPPLY LPV-250W SERIES

Connector Wire Size: 30cm

AC Input: L-Brown N-Blue :Yellowgreen DC Output: +V red, -V Black

Model	LPV-250-12	LPV-250-15	LPV-250-24	LPV-250-27	LPV-250-48
DC Output	12V,0~25A	15V,0~16A	24V,0~10A	27V,0~9A	48V,0~5.2A
Output Voltage Range	±5%	±5%	±5%	±5%	±5%
Wave and Noise	150mV	150mV	180mV	180mV	240mV
Efficiency	80%	84%	84%	86%	86%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC				
Input Current	2.5A/230V				
AC Inrush Current	Cold-start Current 50A/230V				
Leakage Current	<3.5mA/240VAC				
Overload Protection	115~135% Hiccup Mode, Restart				
Over-voltage Protection	115~135% Cut off the Output, Restart				
Over-temp. Protection	≥ 85°C Cut off the Output, Restart				
Water Level	IP67				
Setup Rise Hold-up Time	200ms 100ms 30ms				
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.				
Working Temperature	-10~+60°C, 20%~90% RH				
Size	235 x 127 x 58mm				
Weight/ Packing	2.9Kg,9pcs/27Kg				





LED RAINPROOF SWITCHING POWER SUPPLY FS-100W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input ⚡ :Earth Ground DC Output: +V, -V

Model	FS-100-12	FS-100-15	FS-100-24	FS-100-48
DC Output	12V,0~8.5A	15V,0~6.7A	24V,0~4.5A	48V,0~2A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	120mV	120mV	120mV	200mV
Efficiency	82%	82%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.2A/230V			
AC Inrush Current	Cold-start Current 40A/230V			
Leakage Current	<1mA/240VAC			
Overload Protection	105~150% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	206 x 125 x 50mm			
Weight/ Packing	1Kg,20pcs/21Kg			

LED RAINPROOF SWITCHING POWER SUPPLY FS-150W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input ⚡ :Earth Ground DC Output: +V, -V


Model	FS-150-12	FS-150-15	FS-150-24	FS-150-48
DC Output	12V,0~12.5A	15V,0~10A	24V,0~6.5A	48V,0~3.2A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	120mV	120mV	120mV	200mV
Efficiency	80%	80%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	1.6A/230V			
AC Inrush Current	Cold-start Current 40A/230V			
Leakage Current	<1mA/240VAC			
Overload Protection	105~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	206 x 125 x 50mm			
Weight/ Packing	0.87Kg,20pcs/18.5Kg			





LED RAINPROOF SWITCHING POWER SUPPLY FS-200W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input  :Earth Ground DC Output: +V, -V

Model	FS-200-12	FS-200-15	FS-200-24	FS-200-48
DC Output	12V,0~16.5A	15V,0~13A	24V,0~8.3A	48V,0~4.2A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	200mV
Efficiency	80%	80%	84%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	2.5A/230V			
AC Inrush Current	Cold-start Current 50A/230V			
Leakage Current	<3.5mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	206 x 125 x 50mm			
Weight/ Packing	0.9Kg,20pcs/19Kg			

LED RAINPROOF SWITCHING POWER SUPPLY FS-250W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input  :Earth Ground DC Output: +V, -V

Model	FS-250-12	FS-250-15	FS-250-24	FS-250-48
DC Output	12V,0~20A	15V,0~16A	24V,0~10A	48V,0~5.2A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	200mV
Efficiency	80%	80%	82%	82%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	2.5A/230V			
AC Inrush Current	Cold-start Current 50A/230V			
Leakage Current	<3.5mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	Power Transistor ≥ 85°C Cut off the Output, Auto-recovery			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 100ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	236 x 135 x 65mm			
Weight/ Packing	1.35Kg,12pcs/17Kg			





LED RAINPROOF SWITCHING POWER SUPPLY FS-350W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input ⊕ :Earth Ground DC Output: +V, -V

Model	FS-350-12	FS-350-15	FS-350-24	FS-350-48
DC Output	12V,0~29A	15V,0~23.2A	24V,0~14.6A	48V,0~7.3A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	240mV
Efficiency	80%	80%	82%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	4A/230V			
AC Inrush Current	Cold-start Current 50A/230V			
Leakage Current	<3.5mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	Power Transistor ≥ 85°C Cut off the Output, Restart			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 50ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	236 x 135 x 65mm			
Weight/ Packing	1.4Kg,12pcs/17.5Kg			

LED RAINPROOF SWITCHING POWER SUPPLY FS-400W SERIES

Connector Wire Size: 7 x 9.5mm

L,N: AC Input ⊕ :Earth Ground DC Output: +V, -V

Model	FS-400-12	FS-400-15	FS-400-24	FS-400-48
DC Output	12V,0~33A	15V,0~27A	24V,0~17A	48V,0~8.3A
Output Voltage Range	±1%	±1%	±1%	±1%
Wave and Noise	150mV	150mV	150mV	240mV
Efficiency	80%	80%	82%	84%
AC Input Voltage Range	170~264VAC 47~63Hz; 240~370VDC			
Input Current	4A/230V			
AC Inrush Current	Cold-start Current 50A/230V			
Leakage Current	<3.5mA/240VAC			
Overload Protection	115~135% Hiccup Mode, Restart			
Over-voltage Protection	115~135% Cut off the Output, Restart			
Over-temp. Protection	Power Transistor ≥ 85°C Cut off the Output, Restart			
Water Level	IP44			
Setup Rise Hold-up Time	200ms 50ms 20ms			
Withstand Voltage	I/P-O/P: 1.5KvAC 1min. I/P-FG:1.5KvAC 1min. O/P-FG: 0.5KvAC 1min.			
Working Temperature	-10~+60°C, 20%~90% RH			
Size	236 x 135 x 65mm			
Weight/ Packing	1.4Kg,12pcs/17.5Kg			





*AC Stabilizer
Voltage Regulator*

MAIN TECHNICAL PARAMETER, OVERALL SIZE & WEIGHT

Specification & Capacity	Max Output Capacity (KVA)	Rated Input Voltage(V)	Rated Output Voltage(V)	Max Output Current(A)	Overall Size (W x D x L)mm	PCS/CTN	Package Size/Set (W x D x L)mm	Net Weight (kg)	Gross Weight(kg)	No of Phase
TDGC2-0.2	0.2	220V	0-250V	0.8	105 x 130 x 130	12	380 x 347 x 350	25	26.5	1
TDGC2-0.5	0.5			2	125 x 150 x 130	8	380 x 347 x 350	27	28	
TDGC2-1	1.0			4	180 x 200 x 210	4	435 x 255 x 465	25	26	
TDGC2-2	2.0			8	180 x 200 x 210	4	435 x 255 x 465	31.5	33	
TDGC2-3	3.0			12	210 x 230 x 235	2	490 x 275 x 270	21.5	23	
TDGC2-5	5.0			20	240 x 285 x 250	1	330 x 275 x 290	17.5	18	
TDGC2-10	10.0			40	240 x 335 x 400	1	390 x 295 x 505	34	40	
TDGC2-15	15.0			60	240 x 335 x 560	1	390 x 295 x 650	50	58	
TDGC2-20	20.0			80	240 x 340 x 590	1	390 x 295 x 650	53	60	
TSGC2-1.5	1.5	380V	0-430V	2	125 x 180 x 340	1	200 x 260 x 400	9.8	12	3
TSGC2-3	3.0			4	180 x 250 x 430	1	300 x 220 x 510	17	21.5	
TSGC2-6	6.0			8	180 x 250 x 460	1	330 x 220 x 560	22	27	
TSGC2-9	9.0			12	210 x 250 x 590	1	320 x 260 x 580	29	35	
TSGC2-15	15.0			20	240 x 330 x 560	1	390 x 295 x 650	48	56	
TSGC2-20	20.0			26.5	240 x 330 x 580	1	390 x 295 x 650	53	60	
TSGC2-30	30.0			40	350 x 420 x 1060	1	440 x 450 x 1170	138	150	

Specification & Capacity	Max Output Capacity (KVA)	Rated Input Voltage(V)	Rated Output Voltage(V)	Max Output Current(A)	Overall Size (W x D x L)mm	PCS/CTN	Package Size/Set (W x D x L)mm	Net Weight (kg)	Gross Weight(kg)	No of Phase
TDGC2J-0.5	0.5	220V	0-250V	2	130 X 150 X 160	8	330 X 295 X 455	30	31.5	1
TDGC2J-1	1.0			4	185 X 200 X 215	4	430 X 395 X 275	26	27.5	
TDGC2J-2	2.0			8	230 X 240 X 215	2	460 X 250 X 245	18	19.5	
TDGC2J-3	3.0			12	265 X 270 X 215	2	490 X 280 X 255	26	27	
TDGC2J-5	5.0			20	350 X 395 X 260	1	430 X 430 X 340	25	29	
TDGC2J-7	7.0			28	350 X 390 X 260	1	430 X 430 X 340	27	30.5	
TDGC2J-10	10.0			40	350 X 410 X 420	1	430 X 430 X 500	47.5	51	
TDGC2J-15	15.0			60	350 X 410 X 570	1	430 X 430 X 690	67	73	
TDGC2J-20	20.0			80	350 X 410 X 570	1	430 X 430 X 690	80	86	
TDGC2J-30	30.0			120	350 X 410 X 1080	1	440 X 440 X 1170	138	150	
TDGC2J-1.5	1.5	380V	0-430V	2	130 X 150 X 420	1	200 X 260 X 510	11	14.5	3
TDGC2J-3	3.0			4	200 X 185 X 510	1	210 X 230 X 570	19.5	22.5	
TDGC2J-6	6.0			8	230 X 240 X 510	1	280 X 280 X 570	28	32.5	
TDGC2J-9	9.0			12	265 X 270 X 510	1	285 X 330 X 590	39	44	
TDGC2J-15	15.0			20	350 X 395 X 570	1	440 X 430 X 690	66	72	
TDGC2J-20	20.0			27	350 X 395 X 570	1	440 X 430 X 690	80	86	
TDGC2J-30	30.0			40	350 X 430 X 1060	1	440 X 450 X 1170	138	150	

Note: 1. TDGC2, TSGC series products are same with the TDGC2J, TSGC2J series.

2. The said overall size and weight are for reference only.

RELAY TYPE AUTOMATIC VOLTAGE STABILIZER 0.5KVA TO 5KVA

Introduction:

AVR single-phase automatic AC voltage stabilizer used for adjusting the output voltage to the rated value and get a steady state. It's the ideal product for the household equipment such as the air conditioner, refrigerator, TV, hi-fi equipment, computer, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Relay type
- Wide input voltage range
- Low-voltage protection
- Selectable delay time

Specifications:



0.5KVA

Input Voltage	AC160V-250V/70V-130V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	36 x 31 x 39.5cm
Pcs/Ctn	4

1KVA/1.5KVA

Input Voltage	AC160V-250V/70V-130V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	37.5 x 31.5 x 40cm
Pcs/Ctn	4

2KVA/3KVA

Input Voltage	AC160V-250V/70V-130V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	43.5 x 37 x 47.5cm
Pcs/Ctn	4

5KVA

Input Voltage	AC160V-250V/70V-130V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	58.5 x 45 x 31.2cm
Pcs/Ctn	2

MOTOR TYPE AUTOMATIC VOLTAGE STABILIZER 0.5KVA TO 10KVA

Introduction:

SVC single-phase automatic AC voltage stabilizer used for adjusting the output voltage to the rated value and get a steady state. It's the ideal product for the household equipment such as the air conditioner, refrigerator, TV, hi-fi equipment, computer, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Motor type
- Wide input voltage range
- Low-voltage protection & Over-voltage protection
- Selectable delay time

Specifications:



0.5KVA

Input Voltage	AC160V-250V/70V-130V	Delay time	3 sec/min Selectable
Output Voltage	220V±3%/110V±6%	Efficiency	>90%
Frequency	50Hz/60Hz	Load power factor	0.8
Over voltage protection	AC246±4V	Packing size	44 x 25 x 35cm
Under voltage protection	AC184±4V	Pcs/Ctn	4

1KVA/1.5KVA

Input Voltage	AC160V-250V/70V-130V	Delay time	3 sec/min Selectable
Output Voltage	220V±3%/110V±6%	Efficiency	>90%
Frequency	50Hz/60Hz	Load power factor	0.8
Over voltage protection	AC246±4V	Packing size	49 x 28.5 x 40cm
Under voltage protection	AC184±4V	Pcs/Ctn	4

2KVA/3KVA

Input Voltage	AC160V-250V/70V-130V	Delay time	3 sec/min Selectable
Output Voltage	220V±3%/110V±6%	Efficiency	>90%
Frequency	50Hz/60Hz	Load power factor	0.8
Over voltage protection	AC246±4V	Packing size	33 x 29 x 23cm
Under voltage protection	AC184±4V	Pcs/Ctn	1

5KVA/10KVA

Input Voltage	AC160V-250V/70V-130V	Delay time	3 sec/min Selectable
Output Voltage	220V±3%/110V±6%	Efficiency	>90%
Frequency	50Hz/60Hz	Load power factor	0.8
Over voltage protection	AC246±4V	Packing size	40 x 32 x 35cm
Under voltage protection	AC184±4V	Pcs/Ctn	1

MOTOR TYPE SINGLE-PHASE AUTOMATIC VOLTAGE STABILIZER 7.5KVA TO 30KVA

Introduction:

SVC single-phase automatic AC voltage stabilizer used for adjusting the output voltage to the rated value and get a steady state. It's the ideal product for the household equipment such as the air conditioner, refrigerator, TV, hi-fi equipment, computer, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Motor type
- Wide input voltage range
- Low-voltage protection & Over-voltage protection

Specifications:



7.5KVA/10KVA

Input Voltage	AC160V-250V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	60 x 37 x 31cm
Pcs/Ctn	1

15KVA

Input Voltage	AC160V-250V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	38 x 48.5 x 90cm
Pcs/Ctn	1

20KVA

Input Voltage	AC160V-250V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	42 x 49 x 91cm
Pcs/Ctn	1

30KVA

Input Voltage	AC160V-250V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	42 x 49 x 91cm
Pcs/Ctn	1

MOTOR TYPE AUTOMATIC VOLTAGE STABILIZER 6KVA TO 90KVA

Introduction:

TNS three-phase automatic AC voltage stabilizer used for office equipment, testing equipment, lighting system, medical equipment, industrial automation equipment, household appliance, communication system. safety alarming system. safety alarming system, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Motor type
- Wide input voltage range
- Low-voltage protection & Over-voltage protection
- Selectable delay time

Specifications:



6KVA

Input Voltage	AC280V-430V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC246±7V
Under voltage protection	AC318±7V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	39 x 35 x 70cm
Pcs/Ctn	1

9KVA

Input Voltage	AC280V-430V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±7V
Under voltage protection	AC318±7V

Efficiency	>90%
Load power factor	0.8
Packing size	41 x 38 x 78cm
Pcs/Ctn	1

15KVA

Input Voltage	AC280V-430V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±7V
Under voltage protection	AC318±7V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	43 x 41 x 86cm
Pcs/Ctn	1

20KVA

Input Voltage	AC280V-430V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±7V
Under voltage protection	AC318±7V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	55 x 50 x 102cm
Pcs/Ctn	1

MOTOR TYPE AUTOMATIC VOLTAGE STABILIZER 6KVA TO 90KVA



30KVA

Input Voltage	AC304V-456V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	55 x 50 x 102cm
Pcs/Ctn	1

40KVA

Input Voltage	AC304V-456V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	66 x 45 x 132cm
Pcs/Ctn	1

50KVA

Input Voltage	AC304V-456V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	66 x 45 x 132cm
Pcs/Ctn	1

60KVA

Input Voltage	AC304V-456V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	66 x 45 x 132cm
Pcs/Ctn	1

75KVA/90KVA

Input Voltage	AC304V-456V
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Efficiency	>90%
Load power factor	0.8
Packing size	70 x 50 x 137cm
Pcs/Ctn	1



MOTOR TYPE WALL-MOUNTING AUTOMATIC VOLTAGE STABILIZER 3KVA TO 12KVA

Introduction:

TSD single-phase automatic AC voltage stabilizer with the modern design, being mounted on the wall, saving the space, It's commonly used at home, office, school, hospital, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Motor type
- Wide input voltage range
- Low-voltage & Over-voltage protection
- Selectable delay time

Specifications:



3KVA

Input Voltage	AC160V-250V/70V-130
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	45 x 32 x 41cm
Pcs/Ctn	2

9KVA

Input Voltage	AC160V-250V/70V-130
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	46 x 37 x 48cm
Pcs/Ctn	2

6KVA/8KVA

Input Voltage	AC160V-250V/70V-130
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	46 x 37 x 48cm
Pcs/Ctn	2

10KVA/12KVA

Input Voltage	AC160V-250V/70V-130
Output Voltage	220V±3%/110V±6%
Frequency	50Hz/60Hz
Over voltage protection	AC246±4V
Under voltage protection	AC184±4V

Delay time	3 sec/min Selectable
Efficiency	>90%
Load power factor	0.8
Packing size	52 x 41 x 53cm
Pcs/Ctn	2

SBW THREE-PHASE AUTOMATIC VOLTAGE STABILIZER 50KVA TO 2000KVA

Introduction:

SBW Three-phase automatic AC voltage stabilizer used for electric equipment, metal processing equipment, production line, construction device, elevator, medical equipment, equipment of light and textile industry, household appliance and lighting used for industry, agriculture, traffic, military, railroad, scientific culture, e household appliance and lighting used for industry, agriculture, traffic, military, railroad scientific culture, etc.

Features:

- Automatic voltage regulator
- Short circuit & overload protection
- Built-in transformer: Motor type
- Wide input voltage range
- Low-voltage & Over-voltage protection
- By pass function

Specifications:



50KVA/60KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	80 x 62 x 138cm
Pcs/Ctn	1

100KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±7V
Under voltage protection	AC318±7V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	85 x 63 x 152cm
Pcs/Ctn	1

150KVA/180KVA/200KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	105 x 75 x 180cm
Pcs/Ctn	1



225KVA/500KVA/600KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	110 x 90 x 185cm
Pcs/Ctn	1

SBW THREE-PHASE AUTOMATIC VOLTAGE STABILIZER 50KVA TO 2000KVA



250KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	110 x 90 x 185cm
Pcs/Ctn	1

300KVA/320KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	110 x 92 x 190cm
Pcs/Ctn	1

400KVA/500KVA/600KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	130 x 105 x 200cm
Pcs/Ctn	1



800KVA/1000KVA/1200KVA

Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

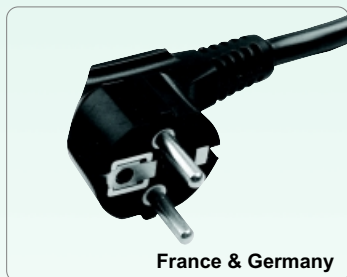
Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	105 x 75 x 200cm
Pcs/Ctn	1

1600KVA/2000KVA

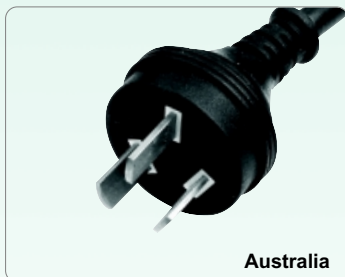
Input Voltage	AC304V-456V
Output Voltage	380V±3%
Frequency	50Hz/60Hz
Over voltage protection	AC426±4V
Under voltage protection	AC318±4V
Efficiency	>95%

Response	≤ 1 sec(against 10% input voltage deviation)
By pass	Auto/Manual
Load power factor	0.8
Packing size	146 x 130 x 225cm
Pcs/Ctn	1

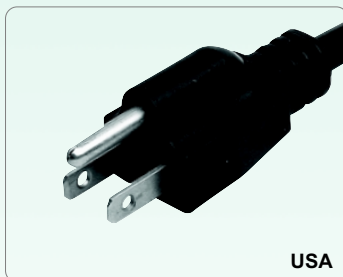
PLUG & SOCKET



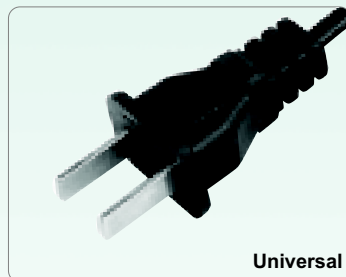
France & Germany



Australia



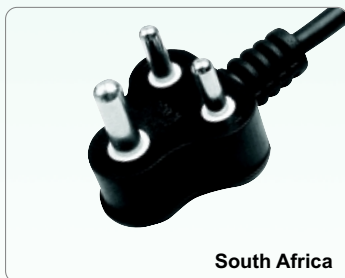
USA



Universal



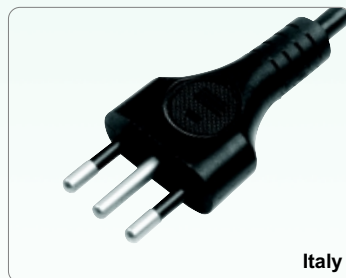
Small Europe Type



South Africa



UK



Italy



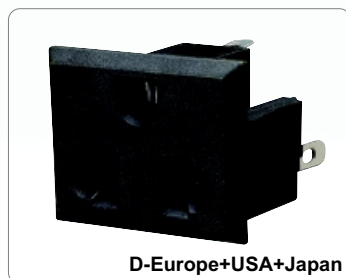
A-USA



B-Australia



C-Universal



D-Europe+USA+Japan



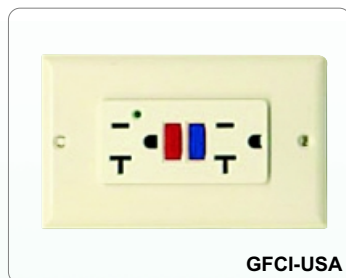
E-UK



F-France



G-Germany



GFCI-USA

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