

EXC  **POWER**
WENZHOU IGNENG TECHNOLOGY CO.,LTD

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PRODUCT MANUAL

APPLIANCE PROTECTOR

Professional Manufacturer
For voltage Protectors, Multifunctional Sockets, Inverters

COMPANY INTRODUCTION

Wenzhou Igneng Technology Co., Ltd, is a trading and manufacturing combo since 2006, located in Wenzhou with strong Zhengshang Culture. Our main products are :Inverters, Voltage protectors, Street Lighting Control, Multifunctional sockets such as Timer, Remote and Wifi control sockets.

Since started, We have always been committed to technology leadership and quality first. Besides, we always adhere to efficiency priorities and share results. In the meanwhile, we always adhere to people-oriented, customer-centric.

Adhering to the business philosophy of "integrity, win-win, innovation and high efficiency", we have gradually developed steadily and has become a comprehensive high-tech enterprise integrating R&D, manufacturing, sales and service.

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EP-I01



PRODUCTS SPECIFICATION

Model	EPI-01-1000	EPI-01-1500	EPI-01-2000	EPI-01-3000	EPI-01-4000	EP-I01-5000
Rated power	1KW	1.5KW	2KW	3KW	4KW	5KW
Peak power	3KW	4.5KW	6KW	9KW	12KW	15KW
Standard battery voltage	12/24VDC	12/24VDC		24/48VDC		
AC input voltage range	175-275VAC					
AC input frequency	50Hz: 40-60Hz / 60Hz: 55-65Hz (50Hz/60Hz) Automatic					
Conversion efficiency	≥90%					
Output voltage	220VAC ±3% (battery model)					
Output frequency	50/60Hz±0.5Hz(battery model) Automatic tracking(AC model)					
Protect	With over - voltage, overload, low - voltage, high - temperature and short - circuit protection					
AC charging voltage	13.6 - 14.2VDC(12V)/27.2 - 28.4VDC(24V)/54.4-56.8VDC(48V)					
AC charge current	The charging current of 0 - 35A is adjustable					
Working mode 01	AC priority mode					
Working mode 02	Energy saving mode					
Working mode 03	Battery priority mode					
Temperature	0~50°C					
Humidity	<95%(NO dew)					

EP-S02



PRODUCTS SPECIFICATION

Model	EP-S02-350	EP-S02-500	EP-S02-1000	EP-S02-1500	EP-S02-2000	EP-S03-3000
Rated power	350W	500W	1000W	1.5KW	2KW	3KW
Peak power	350W	500W	1000W	1.5KW	2KW	3KW
Standard battery voltage	12VDC		12/24VDC		24/48VDC	
AC input voltage range	140-275VAC					
AC input frequency	50Hz: 45-65Hz 60Hz: 55-65Hz					
Conversion efficiency	≥90%					
Output voltage	220VAC ±2% (battery model) ±5%(The utility model)					
Output frequency	50/60Hz±0.3Hz(battery model) Automatic tracking(AC model)					
Protect	With over - voltage, overload, low - voltage, high - temperature and short - circuit protection					
AC charging voltage	13.6 - 14.2VDC(12V)/27.2 - 28.4VDC(24V)/54.4-56.8VDC(48V)					
AC charge current	15 Amp					
Working mode 01	AC priority mode					
Working mode 02	Energy saving mode					
Working mode 03	Battery priority mode					
Temperature	0~50°C					
Humidity	<95%(NO dew)					





EP-S03



EP-S04



PRODUCTS SPECIFICATION

Model	Rated Power	DC input Voltage	Positive and Negative pole anti-reverse protection
EP-S03-300	300W	12VDC/24VDC	NO
EP-S03-400	400W	12VDC/24VDC	NO
EP-S03-500	500W	12VDC/24VDC	YES
EP-S03-600	600W	12VDC/24VDC	YES
EP-S03-800	800W	12VDC/24VDC	NO
EP-S03-1000	1KW	12VDC/24VDC	NO
EP-S03-1500	1.2KW	12VDC/24VDC/48VDC	NO
EP-S03-2000	2KW	12VDC/24VDC/48VDC	YES
EP-S03-3000	3KW	12VDC/24VDC/48VDC	YES

CAI Series High Frequency Modified Sine Wave Inverter with Automatic Charger and AC/DC Input Automatically Switch (AC charger, AC and DC switch time<=50ms)

Model	Rated Power	DC input Voltage	AC Charge Current
EPI04-2000	2KW	12VDC/24VDC/48VDC	20A/15A/10A Fixed
EPI04-3000	3KW	12VDC/24VDC/48VDC	20A/15A/10A Fixed

PRODUCTS SPECIFICATION

Model	EP-S04-350	EP-S04-500	EP-S04-1000	EP-S04-1500	EP-S04-2000	EP-S04-3000
Rated power	350W	500W	600W	800KW	1KW	1.2KW
Peak power	1050W	1500W	1800W	2400W	3.6W	3KW
Standard battery voltage	12VDC		12/24VDC		24/48VDC	
AC input voltage range	140-275VAC					
AC input frequency	50Hz: 45-65Hz / 60Hz: 55-65Hz±0.5Hz (50Hz / 60Hz) Automatic identification					
Conversion efficiency	≥92%					
Output voltage	220VAC ±2% (battery model) ±5%(The utility model)					
Output frequency	50/60Hz±0.3Hz(battery model) Automatic tracking(AC model)					
Protect	With over - voltage, overload, low - voltage, high - temperature and short - circuit protection					
AC charging voltage	13.6 - 14.2VDC(12V)/27.2 - 28.4VDC(24V)/54.4-56.8VDC(48V)					
AC charge current	15 Amp					
Working mode 01	AC priority mode					
Working mode 02	Energy saving mode					
Working mode 03	Battery priority mode					
Temperature	0~50°C					
Humidity	<95%(NO dew)					



EP-S05



PRODUCTS SPECIFICATION

Model	EP-S05-5000	EP-S05-7000	EP-S05-10000	EP-S05-15000	EP-S05-20000	EP-S05-30000
Rated power	5KW	7KW	10KW	15KW	20KW	30KW
Peak power	10KW	14KW	20KW	30KW	40KW	60KW
Standard battery voltage	48/96VDC		96/192/240V DC		240/360VDC	
AC input voltage range	170-250VAC					
AC input frequency	50Hz: 40-65Hz 60Hz: 50-75Hz					
Conversion efficiency	≥90%					
Output voltage	220VAC ±2% (battery model) ±5%(The utility model)					
Output frequency	50/60Hz±0.3Hz(battery model) Automatic tracking(AC model)					
Protect	With over - voltage, overload, low - voltage, high - temperature and short - circuit protection					
AC charging voltage	27.2-28.4V(24V) / 54.4-56.8V / 108.8-113.6V(96V) / 217.6-227V(192V)					
AC charge current	15 Amp					
Working mode 01	AC priority mode					
Working mode 02	Energy saving mode					
Working mode 03	Battery priority mode					
Temperature	0-50°C					
Humidity	<95%(NO dew)					

EP-S81
30 Amp Solar Charge Controller



PRODUCTS SPECIFICATION

Model	10A	20A	30A	40A	50A	60A
System Voltage	12V/24V		12V/24V,24V/48V			
Max. Input Voltage of solar panel	50V(12V/24V) /100V (24V/48V)					
Self-consumption	≤13MA					
Max. Charge current	10A	20A	30A	40A	50A	60A
MAX. Discharge current	10A	20A	30A	40A	50A	60A
LVD	10.5V (9V-11.0V) / 21V(18V-22.0V) / 42V (36V-44.0V)					
LVR	12.6V (11V-13.5V) / 25.2V (22V-27V) / 50.4V (44V-54V)					
Float Voltage	13.8V (13V-15V) / 27.6V (26V-30V) / 55.2V (52V-60V)					
Boost charging	14.4V / 28.8V /57.6V Battery Voltage less than 12V / 24V/ 48V start boost charging 2 hours					
Battery Over Voltage Protection	16.5V / 33V / 66V					
Input reverse Connection Protection	Yes					
Load Over Current Protection	Yes, each two minutes restart once					
Temperature Compensation	-24mV/°C, -48V/°C, -96V/°C for 12V / 24V /48V system					
Working Temperature	-20°C~55°C					
Terminal Scale	28-10 AWG					



EP-S82
30 Amp Solar Charge Controller



PRODUCTS SPECIFICATION

Model	10A	20A	30A	40A	50A	60A
System Voltage	12V/24V		12V/24V,24V/48V			
Max. Input Voltage of solar panel	50V(12V/24V) / 100V (24V/48V)					
Self-consumption	≤13MA					
Max. Charge current	10A	20A	30A	40A	50A	60A
MAX. Discharge current	10A	20A	30A	40A	50A	60A
LVD	10.5V (9V-11.0V) / 21V(18V-22.0V) / 42V (36V-44.0V)					
LVR	12.6V (11V-13.5V) / 25.2V (22V-27V) / 50.4V (44V-54V)					
Float Voltage	13.8V (13V-15V) / 27.6V (26V-30V) / 55.2V (52V-60V)					
Boost charging	14.4V / 28.8V / 57.6V Battery Voltage less than 12V / 24V/ 48V start boost charging 2 hours					
Battery Over Voltage Protection	16.5V / 33V / 66V					
Input reverse Connection Protection	Yes					
Load Over Current Protection	Yes, each two minutes restart once					
Temperature Compensation	-24mV/°C, -48V/°C, -96V/°C for 12V / 24V / 48V system					
Working Temperature	-20°C~55°C					
Terminal Scale	28-10 AWG					

EP-S83
12 Volt Solar Charge Controller



PRODUCTS SPECIFICATION

Model	10A	20A	30A	40A	50A	60A
System Voltage	12V/24V		12V/24V,24V/48V			
Max. Input Voltage of solar panel	50V(12V/24V) / 100V (24V/48V)					
Self-consumption	≤13MA					
Max. Charge current	10A	20A	30A	40A	50A	60A
MAX. Discharge current	10A	20A	30A	40A	50A	60A
LVD	10.5V (9V-11.0V) / 21V(18V-22.0V) / 42V (36V-44.0V)					
LVR	12.6V (11V-13.5V) / 25.2V (22V-27V) / 50.4V (44V-54V)					
Float Voltage	13.8V (13V-15V) / 27.6V (26V-30V) / 55.2V (52V-60V)					
Boost charging	14.4V / 28.8V / 57.6V Battery Voltage less than 12V / 24V/ 48V start boost charging 2 hours					
Battery Over Voltage Protection	16.5V / 33V / 66V					
Input reverse Connection Protection	Yes					
Load Over Current Protection	Yes, each two minutes restart once					
Temperature Compensation	-24mV/°C, -48V/°C, -96V/°C for 12V / 24V / 48V system					
Working Temperature	-20°C~55°C					
Terminal Scale	28-10 AWG					



EP-S84
PWM Solar Charger

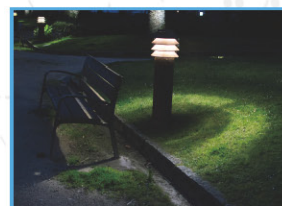


PRODUCTS SPECIFICATION

Model	10A	20A	30A	40A	50A	60A
System Voltage	12V/24V		12V/24V,24V/48V			
Max. Input Voltage of solar panel	50V(12V/24V)/100V (24V/48V)					
Self-consumption	≤13MA					
Max. Charge current	10A	20A	30A	40A	50A	60A
MAX. Discharge current	10A	20A	30A	40A	50A	60A
LVD	10.5V (9V-11.0V) / 21V(18V-22.0V) / 42V (36V-44.0V)					
LVR	12.6V (11V-13.5V) / 25.2V (22V-27V) / 50.4V (44V-54V)					
Float Voltage	13.8V (13V-15V) / 27.6V (26V-30V) / 55.2V (52V-60V)					
Boost charging	14.4V / 28.8V /57.6V Battery Voltage less than 12V / 24V/ 48V start boost charging 2 hours					
Battery Over Voltage Protection	16.5V / 33V / 66V					
Input reverse Connection Protection	Yes					
Load Over Current Protection	Yes, each two minutes restart once					
Temperature Compensation	-24mV/°C, -48V/°C, -96V/°C for 12V / 24V /48V system					
Working Temperature	-20°C~55°C					
Terminal Scale	28-10 AWG					



STREET LIGHTING CONTROL



WATER HEATER



PROJECTOR



SOUND



TV&VIDE



REFRIGERATOR



MOBILE PHONES



AIR CONDITION

EP-SL01



PRODUCTS SPECIFICATION

Power source	110V-130V AC
Output capacity	25A
Output	Switching Transducer
Operating Frequency	50Hz
Light - control	<5~100LUX
Material	PC(UV Proof)
Operating Humidity	≤ 90% RH
Temperature	-40°C~70°C



EP-SL04



PRODUCTS SPECIFICATION

Operating Voltage	220V-240V AC
Output	Switching Transducer
Operating Frequency	50Hz-60Hz
MAX load	1000 watt tungsten
Delay time	Instant or 30S~120S
Guaranteed operation	5000 times(13.7years)
consumption	less than 1 watts
Material	PC(UV Proof)
Operating Humidity	≤ 90% RH
Working Temperature	-40°C~70°C



EP-SL02



PRODUCTS SPECIFICATION

Work Voltage	120V-227V/480V AC
Operating Frequency	50Hz-60Hz
Maximum Load	1000 watt tungsten
Delay time	Instant or 30S~120S
Guaranteed operation	5000 times(13.7years)
Turn-On/Turn-Off	<1:5(Thermal)
Material	PC(UV Proof)
Operating Humidity	≤ 90% RH
Temperature	-40°C~70°C



EP-SL05



PRODUCTS SPECIFICATION

Operating Voltage	12V/24V/110V/220V
Output capacity	10A
Output	Analog Sensor
Operating Frequency	50Hz-60Hz
Material	PC(UV Proof)
Operating Humidity	≤ 90% RH
Temperature	-10°C~70°C



EP-SL06



PRODUCTS SPECIFICATION

Power source	120V AC
Output capacity	15A, 1800W
Operating Frequency	60Hz
Under voltage cut-off	85V AC
Over voltage cut-off	135V AC
surge suppressor	115J
Wait time	0.5S
Material	PC and ABS Shell
Operating Humidity	≤ 90% RH
Temperature	-5°C~55°C



WATER HEATER



PROJECTOR



SOUND



TV/MONITOR



REFRIGERATOR



MOBILE PHONES



AIR CONDITION