EPEVER
EPSOLAR TECHNOLOGY

IPower series
Pure Sine Wave Inverter

Overview

IPower series is a kind of pure sine wave inverter which can convert 12/24/48VDC to 220/230VAC (or 110/120VAC). Industrial design, compared with the civil design, has a wider operating temperature range, greater reliability and higher efficiency. There are lots of advantages such as concise and light graceful appearance, easy installation and operation. The wide input voltage range is ideal for solar system application. The inverter can be applied in many fields, such as household emergency lighting system, vehicle mounted system and small field power supply etc.

Features

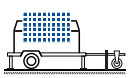
- Safe design with input and output electrical isolation
- Adoption of advanced SPWM technology，pure sine wave output
- Optional output voltage220/230VAC（or 110/120VAC）), choosing by DIP switch
- LED indicators for fault status and working status
- Lower No-load consumption
- Max. efficiency up to 95%（IP2000-22,IP2000-42）①
- Input protection: Over voltage protection, low voltage protection
- Output protection: Over load protection, short circuit protection
- Over temperature protection: Temperature-controlled Fan Ventilation; Inverter turns off
- automatically when overheating
- Optional USB output 5VDC/1A
- Optional RS485 communication port ②

①The efficiency is tested at rated input voltage, 220V output with resistive load,25 ℃ Ambient temperature,1500VA and higher version
②1000VA and higher version support RS485 com. Port optional

Solar Car

Solar Home

Solar Boat


Solar Power Generator

Technical Specifications

Model	IP350-11	IP500-11	IP350-21	IP500-21	IP350-12	IP500-12	IP350-22	IP500-22
Electrical parameters								
Input Rated Voltage	12VDC		24VDC		12VDC		24VDC	
Input Voltage Range	10.8～16VDC		21.6～32VDC		10.8～16VDC		21.6～32VDC	
Input surge voltage	＜32VDC		＜44VDC		＜32VDC		＜44VDC	
Fuses	32VDC/50A	2*32VDC/35A	32VDC/30A	2*32VDC/25A	32VDC/50A	2*32VDC/35A	32VDC/30A	2*32VDC/25A
No-load consumption	＜0.7A	＜0.9A	＜0.5A	＜0.5A	＜0.7A	＜0.9A	＜0.5A	＜0.5A
Output Voltage	110VAC(±5%)/120VAC(-10%～+5%)				220VAC(±5%)/230VAC(-10%～+5%)			
Output Continuous Power	280W	400W	280W	400W	280W	400W	280W	400W
Output Power 15 min.	350W	500W	350W	500W	350W	500W	350W	500W
Load power factor	0.2-1 (VA lower than Output Continuous Power)				0.2-1 (VA lower than Output Continuous Power)			
Max. surge power	750W	1000W	750W	1000W	750W	1000W	750W	1000W
Output Wave	Pure sine wave							
Output Frequency	50/60±0.1 Hz							
Distortion THD	THD≤5%（resistive load）							
Peak Efficiency	91% 90%(IP350-11)				92% 91%(IP350-12)			
Max. USB Output	5VDC/1A							
Environmental Parameters								
Working Temperature	-20℃～+45℃							
Storage Temperature	-35℃～+70℃							
Humidity	≤93%(N.C.)							
Enclosure	IP20							
Altitude	＜2000m (Derating according to IEC62040 at a height exceeding 1000 m)							
Mechanic Parameters								
Model	IP350-11	IP350-21	IP500-11	IP500-21	IP350-12	IP350-22	IP500-12	IP500-22
DC input terminal diameter	$6mm^2$							
Overall dimension(LxWxH)	214×105.5×57.7mm		232.2×132×74.5mm		214×105.5×57.7mm		232.2×132×74.5mm	

Mounting dimension	185.5×76.7mm	205×102mm	185.5×76.7mm	205×102mm
Mounting hole size	Φ4.2mm	Φ5.2mm	Φ4.2mm	Φ5.2mm
Net weight	0.9kg	1.4kg	0.9kg	1.4kg

Model	IP1500-11	IP1500-21	IP2000-21	IP2000-41	IP1500-12	IP1500-22	IP2000-22	IP2000-42
Electrical parameters								
Input Rated Voltage	12VDC	24VDC	24VDC	48VDC	12VDC	24VDC	24VDC	48VDC
Input Voltage Range	10.8～16VDC	21.6～32VDC	21.6～32VDC	43.2～60VDC	10.8～16VDC	21.6～32VDC	21.6～32VDC	43.2～60VDC
Input surge voltage	＜20VDC	＜40VDC	＜40VDC	＜80VDC	＜20VDC	＜40VDC	＜40VDC	＜80VDC
No-load current	＜1.0A	＜0.6A	＜0.6A	＜0.4A	＜1.0A	＜0.6A	＜0.6A	＜0.4A
Output Voltage	110VAC(±5%) 120VAC(-7%～+5%)		110VAC(±5%) 120VAC(-10%～+5%)		220VAC(±5%) 230VAC(-7%～+5%)		220VAC(±5%) 230VAC(-10%～+5%)	
Output Continuous Power	1200W		1600W		1200W		1600W	
Load output Power 15 min	1500W		2000W		1500W		2000W	
Power factor	0.2-1 (VA lower than Output Continuous Power)							
Max. surge power	2400W		3200W		2400W		3200W	
Output Wave	Pure sine wave							
Output Frequency	50/60±0.1 Hz							
Distortion THD	THD≤5%（resistive load）							
Peak Efficiency	93%	94%	94%		93%	94%	95%	
Max. USB Output	5VDC/1A							
Binding post	Φ10mm							
Overall dimension(LxWxH)	326.12×231.5×98.5mm	284.7×231.5×98.5mm	326.12×231.5×98.5mm		326.12×231.5×98.5mm	284.7×231.5×98.5mm	326.12×231.5×98.5mm	
Mounting dimension	208×220mm	163×220mm	208×219.5mm		208×220mm	163×220mm	208×219.5mm	
Mounting hole size	Φ5.5mm							
Net weight	3.9kg		4.0kg		3.9kg		4.0kg	
Environmental Parameters								
Working Temperature	-20℃～+45℃							
Storage Temperature	-35℃~ +70℃							
Humidity	< 95%(N.C.)							
Enclosure	IP20							
Altitude	< 5000 m (Derating according to IEC62040 at a height exceeding 1000 m)							

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