IPower Series

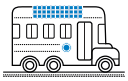
Pure sine wave inverter

Overview

IPower series is a pure sine wave inverter which can convert 12/24/48VDC to 220/230VAC(or 110/120VAC). The power is from 350VA to 2000VA. The inverter can be applied in many fields. Its wide input voltage range is ideal for solar system applications.

Features

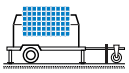
- Safe design with input and output electrical isolation
- Adoption of advanced SPWM technology, pure sine wave output
- Optional output voltage220/230VAC (or 110/120VAC), set by DIP switch
- Output frequency 50/60Hz, set by DIP switch
- LED indicators for working and fault status
- Lower No-load consumption
- Max. efficiency up to 95%
- Input protection: Over voltage protection, low voltage protection
- Output protection: Overload protection, short circuit protection
- Over temperature protection: Temperature-controlled Fan Ventilation; Inverter turns off automatically when over temperature.



Solar Car

Solar Home

Solar Boat



Solar Power Generator

Technical Specifications

Item	IP350-11	IP350-21	IP500-11	IP500-21	IP1000-11	IP1000-21	IP1500-11	IP1500-21	IP2000-21	IP2000-41
Continuous output power	280W	280W	400W	400W	800W	800W	1200W	1200W	1600W	1600W
Output power 15 min.	350W	350W	500W	500W	1000W	1000W	1500W	1500W	2000W	2000W
Surge power	750W	750W	1000W	1000W	1600W	1600W	2400W	2400W	3200W	3200W
Output voltage	110VAC(±5%) 120VAC (-10%～+5%)	110VAC(±5%) 120VAC (-10%～+5%)	110VAC(±5%) 120VAC (-10%～+5%)	110VAC(±5%) 120VAC (-10%～+5%)	110VAC 120VAC(±3%)	110VAC 120VAC(±3%)	110VAC(±3%) 120VAC (-7%～+3%)	110VAC(±3%) 120VAC (-7%～+3%)	110VAC(±5%) 120VAC (-10%～+5%)	110VAC(±5%) 120VAC (-10%～+5%)
Output frequency	50/60±0.1Hz									
Output wave	Pure sine wave									
Output distortion THD	THD≤5%									
Load power factor	0.2-1(Load VA ≤ Continuous output power)									
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC
Input voltage range	10.8～16VDC	21.6～32VDC	10.8～16VDC	21.6～32VDC	10.8～16VDC	21.6～32VDC	10.8～16VDC	21.6～32VDC	21.6～32VDC	43.2～60VDC
Input surge voltage	＜32VDC	＜44VDC	＜32VDC	＜44VDC	＜20VDC	＜44VDC	＜20VDC	＜40VDC	＜40VDC	＜80VDC
Max. output efficiency	90%	91%	91%	91%	92.50%	92.50%	93%	94%	94%	94%
No-load current	＜0.7A	＜0.5A	＜0.9A	＜0.5A	＜0.8A	＜0.5A	＜1.0A	＜0.6A	＜0.6A	＜0.4A
USB output	5VDC/Max.1A									
RS485 com. port	/	/	/	/	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA
Dimension(LxWxH)	214×105.5 ×57.7mm	214×105.5 ×57.7mm	232.2×132 ×74.5mm	232.2×132 ×74.5mm	298.3×231.5 ×98.5mm	284.7×231.5 ×98.5mm	326.1×231.5 ×98.5mm	284.7×231.5 ×98.5mm	326.1×231.5 ×98.5mm	326.1×231.5 ×98.5mm
Mounting dimension	185.5×76.7mm	185.5×76.7mm	205×102mm	205×102mm	183×220mm	163×219.5mm	208×220mm	163×219.5mm	208×219.5mm	208×219.5mm
Net weight	1.0kg	1.0kg	1.7kg	1.7kg	3.9kg	3.6kg	4.6kg	3.9kg	4.6kg	4.6kg
Operating temperature range	-20℃~ +45℃									
Relative humidity	＜95%(N.C.)									
Enclosure	IP20									

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