

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, 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.

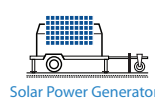
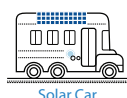


Features



- Safe design with input and output electrical isolation
- Adoption of advanced SPWM technology, pure sine wave output
- Optional output voltage 220/230VAC(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
- Operational USB output 5VDC/1A
- Operational RS485 communication port②

The efficiency is tested at rated input voltage, 220V output with resistive load, 25 Ambient temperature, 1500W and higher version 1000W and higher version support RS485 communication port optional.



Technical Specifications

Item	IP350-12	IP350-22	IP500-12	IP500-22	IP1000-12	IP1000-22	IP1500-12	IP1500-22	IP2000-22	IP2000-42
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	<40VDC	<20VDC	<40VDC	<40VDC	<80VDC
Output Voltage	220VAC(±5%) 230VAC(-7%~+5%)		220VAC(±5%) 230VAC(-10%~+5%)		220VAC/ 230VAC (±5%)		220VAC(±5%) 230VAC(-7%~+5%)		220VAC(±5%) 230VAC(-10%~+5%)	
Output Frequency	50/60±0.1Hz					50/60±0.1Hz				
Output Continuous 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
Power factor	0.2-1(VA lower than output continuous power)									
Output Wave	Pure sine wave									
Distortion THD	THD≤3%									
Max. Efficiency	91%	92%	92%	92%	94.50%	94.50%	93%	94%	95%	95%
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 Port	5VDC/Max.1A					5VDC/Max.1A				
RS485 Com. Port	/				5VDC/200mA					
Binding post	Φ6mm				Φ10mm					
Overall dimension	214×105.5×57.7		232.2×132×74.5		298.3×231.5×98.5		284.7×231.5×98.5		326.1×231.5×98.5	
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
Mounting hole size	Φ4.2mm	Φ4.2mm	Φ5.2mm	Φ5.2mm	Φ5.5mm	Φ5.5mm	Φ5.5mm	Φ5.5mm	Φ5.5mm	Φ5.5mm
Net weight	1.0kg	1.0kg	1.7kg	1.7kg	3.9kg	3.6kg	4.6kg	3.9kg	4.6kg	4.6kg

Item	IP350-11	IP350-21	IP500-11	IP500-21	IP1000-11	IP1000-21	IP1500-11	IP1500-21	IP2000-21	IP2000-41
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
Output Voltage	110VAC(±5%) 120VAC(-10%~+5%)				110VAC 120VAC(±3%)	110VAC 120VAC(±3%)	110VAC(±3%) 120VAC(-7%~+3%)		110VAC(±5%) 120VAC(-10%~+5%)	
Output Frequency	50/60±0.1Hz									
Output Continuous 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
Power factor	0.2-1(VA lower than output continuous power)									
Output Wave	Pure sine wave									
Distortion THD	THD≤5%									
Max. 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 Port	5VDC/Max.1A									
RS485 Com. Port	/				5VDC/200mA					
Binding post	Φ6mm				Φ10mm					
Overall dimension	214×105.5×57.7	214×105.5×57.7	232.2×132×74.5	232.2×132×74.5	298.3×231.5×98.5	284.7×231.5×98.5	326.1×231.5×98.5	284.7×231.5×98.5	326.1×231.5×98.5	326.1×231.5×98.5
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
Mounting hole size	Φ4.2mm	Φ4.2mm	Φ5.2mm	Φ5.2mm	Φ5.5mm	Φ5.5mm				
Net weight	1.0kg	1.0kg	1.7kg	1.7kg	3.9kg	3.6kg	4.6kg	3.9kg	4.6kg	4.6kg