



IPS Series

High-frequency Pure Sine Wave Inverter

Overview

The IPS series is a high-frequency pure sine wave inverter with RS485 communication support. It features ultra-low standby power consumption. The product boasts high conversion efficiency and low total harmonic distortion (THD). It can be applied to DC-AC off-grid solar systems, providing high-quality and highly reliable power supply for homes, RVs, or camping trips.

Features

Stable & Reliable Output

- Pure sine wave output: Stable voltage, low ripple
- Strong load capability: Supports inductive loads (ACs, refrigerators, power tools)

Compact Design

- Compact design: < 90 mm thickness

Communication & Integration

- RS485 communication

Built-in Protection

- Reverse Polarity; Over/Undervoltage; Overload; Short Circuit; Overtemperature

Smart Cooling

- Adaptive air-cooling: Responds to temperature and load



» Technical Specifications

Parameter	IPS1012	IPS1512	IPS2012	IPS3012	IPS1011	IPS1511	IPS2011	IPS3011
Battery Input (DC)								
Voltage Range	10.8VDC ~ 16.0VDC							
Rated Voltage	12VDC							
Rated Current	101.8A	154.3A	205.8A	315.7A	106.4A	159.6A	215.3A	326.8A
AC Output								
Rated Output Power	1000W @40°C@ Rated battery voltage	1500W @40°C@ Rated battery voltage	2000W @40°C@ Rated battery voltage	3000W @40°C@ Rated battery voltage	1000W @40°C@ Rated battery voltage	1500W @40°C@ Rated battery voltage	2000W @40°C@ Rated battery voltage	3000W @40°C@ Rated battery voltage
Surge Power (2s)	2000W	3000W	4000W	6000W	2000W	3000W	4000W	6000W
Rated Output Current	4.5A	6.8A	9.09A	13.6A	9.09A	13.6A	18.18A	27.3A
Output Waveform	Pure sine wave							
Rated Output Voltage	220/230/240VAC				110/120/130VAC			
Output Frequency	50Hz/60Hz ± 0.2%							
THDu	≤ 3% (Resistive load)				≤ 4% (Resistive load)			
Power Factor	0.2 ~ 1 (Load power ≤ Continuous output power)							
Efficiency								
Rated Output Efficiency	90.5%	89.5%	90.0%	88.0%	87.5%	87.5%	86%	85%
Max. Output Efficiency	> 92.5%	> 94.0%	> 94.0%	> 94.0%	> 93.0%	> 93.0%	> 93.0%	> 94.0%
Environmental Parameters								
Operating Temperature	-20°C~60°C (> 40°C Derating)							
Storage Temperature	-35°C~70°C							
Relative Humidity	≤ 95% (N.C.)							
Altitude	< 3000m (> 2,000m Derating)							
Ingress Protection	IP20							
Noise	< 60dB (Full load)							
Mechanical Parameters								
Dimensions (L × W × H)(mm)	391×192 ×87	406×192 ×87	418×239 ×90	437×239 ×90	391×192 ×87	406×192 ×87	418×239 ×90	437×239 ×90
Mounting Hole Size	Φ5.5mm							
Weight (kg)	4.1	4.6	5.7	6.7	4.3	4.8	5.9	6.8
Input Terminal	M6							
Others								
No-load Current	< 1A	< 0.9A	< 1.2A	< 1.3A	< 1A	< 1.1A	< 1.2A	< 1.5A
Standby Current	< 0.3A	< 0.3A	< 0.3A	< 0.3A	< 0.3A	< 0.4A	< 0.3A	< 0.3A
Communication Method	RS485							