

600W Pure Sine Wave Inverter with Solar Charger

This 600W pure sine wave inverter converts 12V DC power from a battery into standard 120V AC power. Featuring a solar charger, it allows for efficient charging of the battery using solar panels.



Product Overview

High-Efficiency Power Conversion

This 600W Pure Sine Wave Inverter is engineered to convert 12V DC battery power into stable, clean AC electricity, making it ideal for sensitive electronics in RVs, yachts, and off-grid setups. It features an integrated solar charger, allowing for direct solar panel input to maintain battery health efficiently. With a durable aluminum housing and comprehensive safety protections, this unit provides a reliable power solution for mobile and remote electrical needs.

Electrical Specifications

Continuous Output Power

600 W Continuous Power	1200 W Surge Power
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Input & Output Details

Parameter	Value
Input Voltage	12V DC
Output Voltage	230V / 120V AC
Waveform	Pure Sine Wave
Efficiency	≈89%
Standby Current	≤1.5A

Features & Connectivity

Monitoring

- LCD digital display (Voltage, Current, Power, Battery Level)
- Optional LCD remote control available

USB Charging Ports	2 x USB ports (5VDC, 1A + 2A)
AC Output Connections	VDE, BS, SAA, Dual GFCI

Safety & Protection

Protection Mechanisms

Low DC Input Alarm • Low DC Input Shutdown • High DC Input Shutdown • Short Circuit Protection • Overload Protection • Reverse Polarity Protection

Voltage Thresholds

Protection Type	Threshold
Low DC Input Alarm	10.5V
Low DC Input Shutdown	10.5V
High DC Input Shutdown	15.3V
Overload Shutdown	660W

Environmental & Certifications

Operating Temperature	-20 °C
Certifications	EMC, LVD, RoHS