

1kW-6kW Pure Sine Wave Inverter Charger

This pure sine wave inverter charger provides up to 300% overload capability for 20 seconds. It also features a power-saving mode and a 4-step intelligent battery charging system.



ADDITIONAL IMAGES



Overview

PRODUCT DESCRIPTION



The unit features clear status indicators for battery charge and inverter operation, suitable for various load types.



Typical home power system setup integrating solar energy, utility grid, and backup generator.

Professional Power Conversion

This high-performance pure sine wave inverter charger offers a versatile power solution for off-grid, mobile, and backup applications. Designed with low idle consumption and intelligent 4-step battery charging, it ensures efficient energy management and reliable power continuity. With robust overload capability and support for multiple battery types, it is engineered to handle demanding loads while protecting sensitive electronic equipment.

Performance

Rated Power Output

1 kW

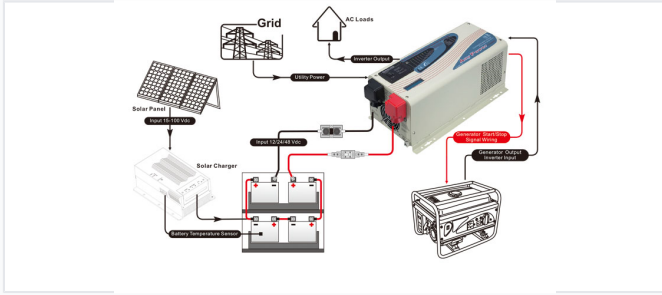
Minimum Power

6 kW

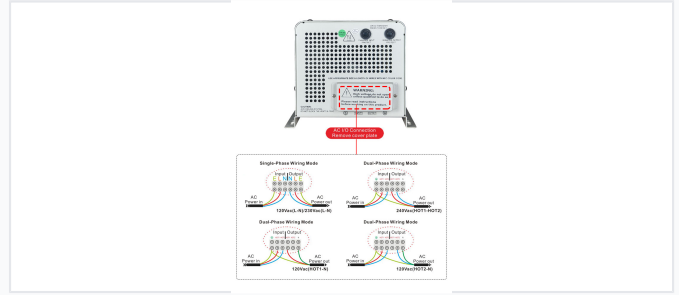
Maximum Power

Surge Rating (20s)	300 %
Typical Transfer Time	10 ms
Nominal Efficiency	88 %

Technical Specifications



System diagram illustrating integration with solar panels, utility grid, generators, and AC loads.



Rear panel view showing input/output terminals and circuit breakers, with wiring guidance for phase configurations.

Output Waveform	Pure Sine Wave
DC Input Voltage	12Vdc, 24Vdc, 48Vdc
AC Output Voltage	100-120Vac, 220-240Vac
Output Frequency	50 Hz

Battery Management

Compatible Battery Types

- Gel U.S.A
- AGM 1
- AGM 2
- Sealed Lead Acid
- Gel Euro
- Open Lead Acid
- Calcium

Charging Stages	4
Max Charge Rate	110 A

Features

DIP SWITCHES INTRODUCTION

On the DC end of inverter, there are 4 DIP switches which enable users to customize the performance of the device.

Switch NO	Switch Function	Position: 0	Position: 1
SW1	Low Battery Trip Volt	13.0VDC	13.0VDC
SW2	AC Input Range	184-253VAC	154-253VAC
SW3	Load Sensing Cycle	30 seconds	3 seconds
SW4	Battery/AC Priority	Utility Priority	Battery Priority



Customizable performance settings via DIP switches, allowing adjustment of low battery trip voltage and AC input range.

Key Features

Power Saving Mode • Remote Control Compatible • Generator Friendly • Multiple Cooling Fans • De-sulphation Mode

Protection Systems	Overload, Short Circuit, High Voltage, Low Battery, Over-temperature
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