

# Pure Sine Wave Solar Inverter and AC Charger

This pure sine wave inverter and AC charger is designed for solar power applications. It converts DC power from batteries into AC power suitable for running household appliances and also functions as an AC charger, allowing batteries to be charged from an AC power source.



## Overview

### Pure Sine Wave Solar Inverter

This advanced 3KW Pure Sine Wave Solar Inverter combines a high-efficiency DC-to-AC converter with an integrated AC charger and MPPT solar controller. Designed for reliable power in diverse environments, it features intelligent battery management and automatic voltage regulation to protect sensitive appliances like refrigerators and air conditioners. With robust protection protocols and a user-friendly LCD interface, it provides a stable and versatile energy solution for both off-grid and hybrid power systems.

## Performance Metrics

### Key Performance Metrics

**3 KW**

Rated Power

**9 KW**

Peak Power

**90 %**

Transfer Efficiency

## Technical Specifications

### Input & Output Characteristics

Parameter	Value
Output Wave Form	Pure Sine Wave
Transfer Time	6ms
AC Mains Range	140-275VAC

## Solar Controller

### MPPT Controller Features

- Max PV Input Voltage: 30V/50V/100V
- Maximum Power Point Tracking technology
- Anti-reverse connection protection
- Intelligent multi-stage charging

## Safety & Protection

### Protective Measures

Overload Protection, Short Circuit Protection, Over-temperature Shutdown, Low Battery Alarm, Anti-reverse Connection

## Physical Dimensions

### Physical Specifications

- Dimensions: 460 x 245 x 200 mm
- Net Weight: 26 kg
- Gross Weight: 28.3 kg