

# 3kVA-5kVA Off-Grid Solar Inverter

This off-grid solar inverter converts DC power from solar panels or batteries into AC power. It utilizes hybrid MPPT technology to optimize energy harvesting from solar panels.



## ADDITIONAL IMAGES



## Overview

### Integrated Off-Grid Energy Solution

This highly integrated system combines an inverter, AC charger, and MPPT solar charge controller into a single unit for efficient energy management. Designed for areas with limited or no grid access, it features fast 0ms switching between grid and battery power to ensure uninterrupted supply. The system optimizes electricity costs through intelligent management of solar and AC inputs, providing reliable pure sine wave power for sensitive electronics.

## Key Performance Metrics

### Core Performance Metrics

<b>3000 W</b> Rated Output Power	<b>4000 W</b> Max PV Input Power	<b>93 %</b> Battery Mode Efficiency	<b>60 A</b> Max Charging Current
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## AC Input & Output

### AC Specifications

Parameter	Input Details	Output Details
Voltage	230VAC (170-280VAC range)	230VAC (220-240VAC range)
Frequency	50/60Hz (Auto-sensing)	50/60Hz
Waveform	N/A	Pure Sine Wave

## Solar & Battery

### Solar & Battery Input

- Rated DC Input Voltage: 48VDC
- MPPT Voltage Range: 60-450VDC
- Maximum DC Input Power: 4000W
- Maximum Charging Current: 60A

## System Features

### Operational Features

Hybrid MPPT Controller, 0ms Switching Time, ECO Mode, UPS Mode, LCD Display, Short Circuit Protection

## Technical Protection

### Protection & Reliability

- Overload Capacity: 110%-150% for 10 seconds
- Integrated Short Circuit Protection
- Pure Sine Wave Output for sensitive loads
- Intelligent Energy Management System

## Physical & Environmental

### Physical & Environmental

Specification	Value
Dimensions (D*W*H)	120 * 295 * 465 mm
Net Weight	10.5 kg
Operating Temperature	0 to 50°C
Storage Temperature	-15 to 60°C
Humidity	5% to 95% (Non-condensing)

## Connectivity

### Communication Options

USB • RS485 • WIFI (Optional) • CAN • Dry Contact