

# 5000VA 48V to 220V Hybrid Solar Inverter with Parallel Function

This hybrid solar inverter is designed for renewable energy applications within solar photovoltaic systems. It operates at 5000VA with a 48V DC input and a 220V AC output, featuring a parallel function for enhanced power output.



## Overview

### High-Performance Hybrid Solar Inverter

This 5000VA hybrid solar inverter is a versatile power solution designed for reliable energy management in both residential and commercial applications. It features a pure sine wave output and integrated PWM solar charge controller, ensuring stable power delivery for sensitive electronics and home appliances. With support for parallel operation of up to 6 units, this system offers scalable power architecture to meet growing energy demands.

## Key Features

### System Capabilities

Pure Sine Wave, Parallel Operation, Overload Protection, Short Circuit Protection, Auto Restart, Configurable Input Priority

## Technical Specifications

### Performance Metrics

**5000 VA**

Rated Power

**4000 W**

Rated Wattage

**93 %**

Peak Efficiency

**20 ms**

Transfer Time

### Input & Output Details

Parameter	Specification
Input Voltage	230VAC
Voltage Range	90-280VAC
Frequency	50Hz/60Hz (Auto Sensing)
AC Output Regulation	230VAC $\pm$ 5%
Surge Power	10000VA

## Battery & Charging

### Battery and Charging

- Battery Voltage: 48VDC
- Floating Charge Voltage: 54VDC
- Overcharge Protection: 60VDC
- Max Charge Current: Up to 60A

## Physical & Environment

### Operating Environment

- Operating Temperature: 0°C to 55°C
- Storage Temperature: -15°C to 60°C
- Humidity: 5%-95% (Non-condensing)

### Physical Dimensions

9.8 kg