

# 4-6kW Single Phase Solar Inverter

This high-efficiency single-phase inverter is designed for solar power systems in residential and commercial settings. It integrates smoothly with existing electrical grids and includes comprehensive protection features for safe and reliable operation.



## Overview

### High-Efficiency Single Phase Solar Inverter

This 4-6kW single-phase solar inverter utilizes advanced dual-MPPT algorithms to achieve up to 99.9% tracking efficiency, ensuring optimal energy harvesting. Designed for reliability and longevity, the system incorporates thermal simulation technologies and a robust IP65-rated enclosure suitable for harsh outdoor environments. With comprehensive fault diagnosis and flexible communication options, it provides a secure and user-friendly solution for professional grid-tied solar applications.

## Performance Metrics

### Key Performance Metrics

**97.6 %**

Max Efficiency

**99.9 %**

MPPT Tracking Efficiency

## Technical Specifications

### Ingress Protection

IP65

### Power Range

4kW - 6kW

### Communication Interfaces

RS485, WiFi, Ethernet

## Features

### Core Features

- Advanced dual-MPPT algorithms
- System-level thermal simulation
- Comprehensive fault diagnosis and protection
- Real-time information logging with 14-day power-off backup
- Anti-theft mechanical design