

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