

Grid-Tie Solar Inverter

This grid-tie inverter is designed for residential and commercial solar power systems. It efficiently converts DC power from solar panels into AC power suitable for grid connection and self-consumption.



Overview

High-Efficiency Grid-Tie Solar Inverter

This high-performance on-grid photovoltaic inverter is engineered for residential and commercial solar power systems, efficiently converting DC power from solar panels into grid-ready AC power. Featuring advanced Maximum Power Point Tracking (MPPT) technology, it maximizes energy harvest while ensuring robust grid protection and reliable operation. With a compact, IP65-rated design and natural cooling, this unit is built for durability and ease of installation in diverse environments.

Performance Metrics

Efficiency

97.8 %

Max Efficiency

97.5 %

European Efficiency

Input (PV)

PV Input Details

| Parameter | Value |
|----------------------|----------|
| Max Input Voltage | 600V |
| Max Input Current | 12.5A |
| MPPT Operating Range | 70V-580V |
| No. of MPPTs | 1 |

Output (Grid)

| | |
|-----------------------|-----------------------|
| AC Output Power | 3600 W |
| Max AC Output Current | 17.2 A |
| Grid Frequency Range | 45Hz-55Hz / 55Hz-65Hz |

Protection & Safety

Compliance Standards

IEC62109-1 • IEC62109-2 • EN 61000-6 • VDE-AR-N 4105

Protection Features

Anti-islanding, AC Overcurrent, AC Short Circuit, DC Reverse Connection, Insulation Detection, Leakage Current Protection

General

Physical Dimensions & Weight

- Dimensions: 285 x 336 x 125 mm
- Weight: 8.8 kg
- IP Rating: IP65
- Cooling: Natural

Operating Conditions

-25°C to 60°C, 0-100% Humidity

HMI & COM

Communication Interfaces

Bluetooth, RS485, WIFI, GPRS