

3.6-5kW Grid-Tie Solar Inverter

This string inverter features a patented topology for optimal performance in photovoltaic power systems. It provides efficient energy conversion, grid-tie functionality and advanced monitoring capabilities.



Overview

High-Efficiency Grid-Tie Solar Inverter

This series of grid-tie solar inverters is designed for residential and commercial solar power systems, offering reliable DC to AC power conversion. With a transformerless topology and natural convection cooling, these units ensure efficient energy harvest with a maximum efficiency of 98.0%. Engineered for durability, the inverters feature an IP65 protection rating, making them suitable for diverse environmental conditions.

Performance Metrics

Efficiency Ratings

98 %

Max Efficiency

99.9 %

MPPT Efficiency

97.8 %

Max CEC Efficiency

Input Specifications

DC Input Characteristics

Feature	Specification
Max DC Voltage	550 V
MPPT Voltage Range	175-500 V
Nominal Voltage	360 V
Max Input Current (A/B)	15A / 15A
MPP Trackers	2

Output Specifications

AC Output Characteristics

Model	Nominal Power	Max Output Current
SF3600TL	3600 W	18 A
SF4200TL	4200 W	21 A
SF4600TL	4600 W	22 A
SF5000TL	5000 W	24 A

General Data

Protection Rating

IP65 • IEC 60529

Communication Options

RS485, Bluetooth (Optional), WiFi (Optional)

Operating Temperature

-25°C to +60°C

Cooling Concept

Natural Convection

Topology

Transformerless