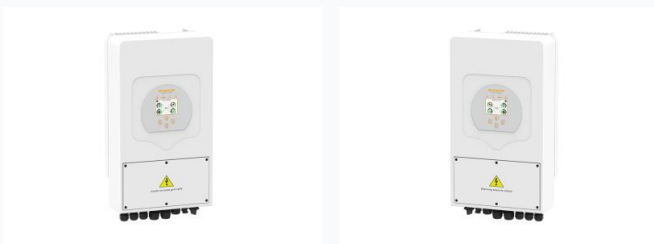


5kW Hybrid Solar Inverter for On-Grid and Off-Grid Systems

This hybrid solar inverter can be used in both on-grid and off-grid configurations. It supports battery type LFP with a max charging/discharging current of 120A.



ADDITIONAL IMAGES



Overview

Versatile Hybrid Solar Inverter

This 5kW hybrid solar inverter is engineered for both on-grid and off-grid solar energy systems, providing seamless power management for residential and commercial applications. It integrates solar energy conversion, intelligent battery charging, and grid interaction into a single, high-efficiency unit. Designed for reliability, the system ensures backup power during grid outages while maximizing energy harvest through advanced MPPT algorithms.

Performance Metrics

Output Power

5000 W
Rated Power

5500 W
Max Power

Efficiency Ratings

97.6 %
Max Efficiency

99.9 %
MPPT Efficiency

Current Harmonic Distortion

<3% (Linear load <1.5%)

PV Input

PV Input Parameters

Parameter	Value
Max DC Input Power	6500W
PV Input Voltage	370V (100V-500V)
MPPT Range	125V-425V
Start-up Voltage	150V
PV Input Current	11A+11A
No. of MPPT	2

Battery Management

Battery Input Data

Feature	Specification
Battery Type	LFP
Voltage Range	40V-60V
Max Charge Current	120A
Max Discharge Current	120A
Charging Strategy	Self-adaption to BMS

Safety & Compliance

Protection Features

PV Input Lightning Protection • Reverse Polarity Protection • Anti-islanding Protection • Insulation Resistor Detection • Residual Current Monitoring • Output Over Current Protection • Output Shorted Protection • Output Over Voltage Protection

Certifications

VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC 62116, IEC 61727, IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3

General Specifications

Physical & Environmental

- Operating Temperature: -25~60°C (>45°C Derating)
- Cooling: Fan
- Noise Level: <30dB
- Weight: 20.5kg
- Dimensions: 330x580x208mm
- Protection Degree: IP65
- Warranty: 5 years