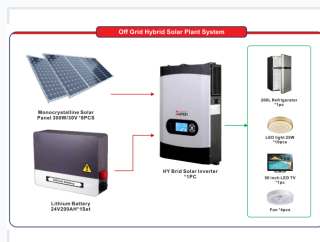


3kW-5kWh Off-Grid Hybrid Solar Power System

This off-grid hybrid solar power system features monocrystalline solar panels, a lithium battery, and a hybrid solar inverter. It is designed to power a 200L refrigerator, multiple LED lights, a 50-inch LED TV, and several fans.



ADDITIONAL IMAGES



Overview

Complete 3kW-5kWh Off-Grid Solar Solution

This integrated solar power system provides a reliable energy solution for residential applications, combining high-efficiency monocrystalline panels with advanced lithium storage. Designed for versatile operation, it supports both battery-inclusive and battery-free daytime modes, allowing solar power to supply loads directly. The system features a sophisticated hybrid inverter and a high-capacity BMS for stable performance and an extended service life exceeding 10 years.

Core Performance

System Performance Metrics

3 kW System Power	5 kWh Storage Capacity	10 Years Design Life	30 A Max Charging Current
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System Components

Included Components

Component	Specifications	Quantity
Solar Panels	Monocrystalline 300W / 30V	8 PCS
Lithium Battery	24V 200AH	1 Set
Hybrid Solar Inverter	Off-Grid / Hybrid functionality	1 PC

Operational Features

Configurable Working Modes

- Solar Priority Mode
- Solar Power and AC Power Hybrid Mode
- Battery Backup Mode
- Battery-free Daytime Operation

Safety & Protection

Integrated Protections

Low Voltage Protection, Over Voltage Protection, Short Circuit Protection, Over Load Protection, Output Isolation, Micro Processor Control

Application Guide

Typical Supported Appliances

- 200L Refrigerator (1 unit)
- 50-inch LED TV (1 unit)
- LED Lights 25W (10 units)
- Electric Fans (4 units)
- Air Conditioning Units

Technical Interface

Monitoring & Control

- Big LCD display for working status
- Real-time solar power generation tracking
- Charging current monitoring
- User-adjustable battery type settings
- Three-step charging algorithm