

5kW Home Energy Storage System

This household energy storage system is designed to couple with photovoltaic generation using a long-life lithium iron phosphate battery. Electricity generated by solar cells can be utilized offline, and redundant generation can be sold to the power grid.



ADDITIONAL IMAGES



Overview



Compact energy storage cabinet designed for reliable residential power backup.



The system features an integrated display for real-time monitoring and an efficient radiator for thermal management.

High-Capacity Home Energy Storage

This household energy storage system is designed to integrate seamlessly with photovoltaic generation, utilizing a long-lifetime, environmentally friendly lithium iron phosphate (LFP) battery. With an output power of 5kW, it offers a flexible management system that supports both off-grid operation and on-grid energy selling. It is an ideal solution for homes with PV panels, small business buildings, and office areas looking to optimize electricity usage during peak and valley price periods.

Model Number	RE5000
Installation Method	Floor Type

Power & Performance

CHARACTERISTIC



The system supports versatile charging modes and is suitable for various home appliances.

Key Performance Metrics

5000 W Rated Output Power	4.8 kWh Capacity	92 % Energy Efficiency
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AC Output Specifications	230VAC \pm 2%, 50Hz/60Hz
AC Maximum Output Current	22.1 A

Battery Specifications

Battery Type	Lithium Iron Phosphate (LFP)
Rated Voltage	51.2 V
Battery Capacity	100 Ah

PV & Grid Integration

PV Input Voltage Range	125V - 550V
PV Maximum Input Voltage	580 V
Grid Connection	Single-Phase
Grid Voltage Range	180V - 270V

Compliance & Environment

Safety Certifications	
CE • RoHS	
Operating Temperature	-10°C to 55°C