

40kWh All-In-One Energy Storage System with 15kW Inverter

This all-in-one energy storage system integrates a 40kWh lithium battery, a 15kW inverter, and a 240A solar charger. It provides reliable power for residential, commercial, and industrial environments, optimizing energy usage.



ADDITIONAL IMAGES



Overview



The integrated 19-inch rack design houses the 40kWh battery modules and 15kW inverter for a streamlined installation.

Comprehensive All-In-One Energy Solution

This integrated energy storage system combines a high-capacity 40kWh lithium battery with a powerful 15kW low-frequency pure sine wave inverter and a 240A solar charger. Designed for plug-and-play convenience, it features a standard 19-inch rack design for all modules, ensuring optimal performance and easy maintenance. It is an ideal solution for providing clean, reliable backup power for residential, commercial, industrial, and telecommunications applications.

Key Performance Metrics

Core Performance Metrics

40.96 kWh

Rated Energy

15 kW

Inverter Power

800 Ah

Battery Capacity

3500 Cycles

Cycle Life

Battery System

Current Specifications

Parameter	Rated Value	Max Value
Charge Current	400A	480A
Discharge Current	800A	960A

Rated Voltage 51.2 VDC

Battery Type LiFePO4 (Lithium Iron Phosphate)

Module Configuration 8.2kWh x 5PCS

Inverter Specifications

System Efficiency

- Inverter Mode: >88% (Peak)
- Line Mode: >95%

Inverter Model HP15048R

Output Waveform Pure Sine Wave

Typical Transfer Time 4~6ms

Applications



A versatile energy solution suitable for residential, commercial, and industrial backup power requirements.

Primary Applications

Off-grid Areas, Residential Backup, Commercial Energy, Industrial Backup, Telecommunications, Data Centers

Features & Protection

System Features

- Plug & Play Installation
- Optional Mobile APP Monitoring
- 19" Standard Rack Module Design
- Built-in MPPT Solar Charger (60-145VDC)
- Active Balancing BMS Technology

Environmental Limits

Operating Temperature

Mode	Temperature Range
Charging	0~45
Discharging	-20~60

Connectivity

Communication Interfaces

RS485 • CAN