

40kWh All-in-One Home Energy Storage System

This home energy storage system has plug-and-play functionality with an optional mobile app for real-time monitoring. Its all-in-one design features a 15kW low-frequency pure sine wave inverter and charger with a wide DC PV range.



ADDITIONAL IMAGES



System Overview

All-in-One Energy Storage Solution

This 40kWh all-in-one energy storage system provides a clean, reliable power solution for residential, commercial, and industrial environments. Designed with a 19-inch standard rack configuration, it integrates a high-capacity LiFePO4 battery with a 15kW pure sine wave inverter and MPPT solar charge controller. The system features plug-and-play functionality and intelligent active balancing BMS technology to ensure optimal performance, safety, and longevity.

Suitable Applications

Residential Backup, Commercial Power, Industrial Backup, Data Centers, Telecom Infrastructure, Solar Energy Systems

Technical Specifications

Key Performance Metrics

40 kWh

Energy Capacity

15 kW

Inverter Power

60 VDC

PV Voltage Range Start

145 VDC

PV Voltage Range End

Inverter Type

Low frequency pure sine wave

Battery & Safety

BMS Technology

- Automatic calibration
- Active balancing technology
- High safety stability

Battery Chemistry

LiFePO4 (Lithium Iron Phosphate)

Cycle Life

3500+ cycles at 80% DOD

Features & Support

System Features

Plug & Play • 19-inch Rack Design • Mobile App Monitoring • Real-time Status Tracking

Warranty

3 years or 3500 cycles

Available Certifications

CE, ROHS, FCC, IEC62133, MSDS, UN38.3