LITHIUMVALLEY





Home Energy Storage Battery Series

Version: V1.2







The W30-E5 、 W32-E5 is a comprehensive home wall-mounted solar lithium battery. It features built-in high-quality, high-capacity LiFePO4 batteries, ensuring a long system lifespan for the battery. The independently designed Battery Management System (BMS) has been verified to be compatible with inverters from different brands,supporting hybrid grid-tied and off-grid operation modes.

FEATURES

Multi-Scenario

Full-Scenario Coverage,Empowering Household Energy Freedom

- PV Consumption +Peak-Valley Arbitrage Enhances solar efficiency, generates electricity price gap earnings.
- Emergency Backup + Grid Interaction Seamless power backup, supports Bluetooth APP control.
- Space Optimization + Eco Carbon ReductionCompact design for small homes, visual carbon emission tracking.

Longer Life and Safer

Core Defense Line: A Decade of Worry-Free Home Protection

- Cell-Level Safety Fortress: Safe LFP material system with high thermal stability, eliminating thermal runaway risks.
- BMS Smart Protection Network: Triple safeguards—milliseond-level cutoff for overcharge/over-discharge/short circuit;automatic shutdown at abnormal temperatures(>60°C).Wide-Temperature Operation: Maintains 70% discharge efficiency in -20°C to 60°C environments.
- Ultra-Long Lifespan Economic Model.

Low Maintenance

mart, Predictive Maintenance: Cuts Costs by 70%

- AI Lifespan Prediction: 6-month early warning for battery aging, 92% accuracy
- Remote Diagnostics: Real-time voltage, temperature, capacity fade tracking via app; fault codes pushed instantly for repair
- Self-Maintenance Strategy: Auto-sleep when idle long-term; monthly self-charge to 60%; damp-triggered anti-humidity mode extends circuit life

Flexible and Expandable

Smart Scalability: Flexible Architecture, Adapts On-Demand

- Supports up to 20 units in parallel | 573.44 kWh max capacity.
- Energy Ecosystem Integration.

Certification

Global Safety Passport, Authoritative Quality Endorsement

- CE, UN38.3, MSDS, Marine Report

Dimensions



Product Name	W30-E5	W32-E5
Electrical Characteristics		
Nominal Voltage	51.2V	51.2V
Rated Capacity	560Ah	628Ah
Energy	28672Wh	32153Wh
Cell Technology	Lithium Iron Phosphate (LFP)	
Cycle Life	8,000 cycles @ 90%DOD, 25°C/0.5C	
Operating Voltage	44.8~58.4V	
Communication Interfaces	RS232 / CAN / RS485	
Scalability	Up to 20 units	
Expansion Function	Aerosol fire extinguishing device/Bluetooth	
Charge & Discharge		
Standard Charging/Discharging Current	100A	
Max continuous charge/discharge current	200A	
Conversion Efficiency	99% , 25°C/0.5C	
Environmental		
Working Environment	indoors/Under the outdoors eaves	
Charging Temperature	0~55°C（32° F~131° F）	
Discharging Temperature	-20~60°C（-4° F~140° F）	
Storage Temperature	20°C to 45°C (68 ° F to 113 ° F) with in three months; 25±3°C (77° F±5.4° F) for more than three months	
Storage Humidity	65+20%RH	
Cooling	Natural Convection	
IP Rating	IP20	
Mechanical		
Dimension(L*W*H)	982*680*243mm(Including wheels)	
Weight(approximately)	234.5kg	238.6kg
Installation	floor	
Certification		
CE, UN38.3, MSDS Marine Report		

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

*The specifications are subject to change without prior notice.

LITHIUMVALLEY

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