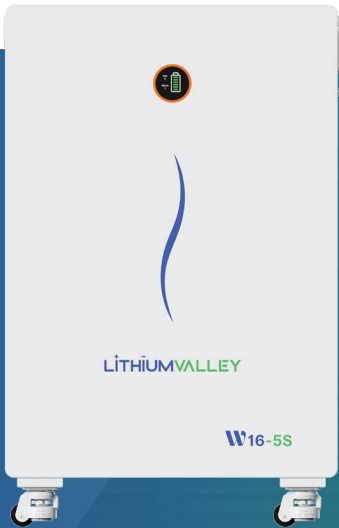




Sodium-ion Battery

Home Energy Storage Battery Series

W16-5S 48V 320Ah 15.36kWh

Version: V1.2



The W16-5S is a comprehensive home floor-standing solar Sodium-ion battery. It features built-in high-quality, high-capacity Na-ion 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

Unleashing Household Energy Freedom

- PV Consumption + Peak-Valley Arbitrage, Emergency Backup + Grid Interaction
- Extreme Environment Guardian, Delivers 75% power output even in extreme -40°C cold starts
- Coastal/Humid Resistance: IP65 Rating + Anti-Corrosion Coating
- Space Optimization + Carbon Reduction, Compact Design, Carbon Emission Visualization

Longer Life and Safer

Intrinsic Safety Design: Floor-Standing 10-Year Safe

- Cell-Level Safety Fortress, 300°C Thermal Runaway Protection: Sodium Battery More Stable Than Lithium, Puncture/Cut Resistant - No Fire/Explosion
- BMS Smart Protection, Triple Protection: Overcharge/Discharge/Short-Circuit Cutoff
- Wide Temperature Range: -40°C to 60°C with 75% Discharge Efficiency
- Ultra-Long Lifecycle Economics

Efficient Maintenance

Efficient Maintenance: AI-Powered, 70% Lower Operational Costs

- AI Life Prediction: 6-Month Early Warning, 92% Accuracy
- Remote Diagnostics: Real-Time Monitoring via APP
- Auto-Maintenance: Hibernation Mode, Monthly Self-Charging to 60%

Flexible and Expandable

Smart Scaling: Flexible Architecture, On-Demand Expansion

- Up to 20 units in parallel, The parallel system's max capacity is 307.2kWh
- Energy Ecosystem Integration

Certification

Global Safety Passport, Authoritative Quality Endorsement

- UN38.3, MSDS, Marine Report UL1973

Dimensions



Product Name		W16-5S
Electrical Characteristics		
Nominal Voltage		48V
Rated Capacity		320Ah
Energy		15360Wh
Cell Technology		Na-ion Battery
Cycle Life		9,000 cycles @ 80%DOD, 25°C/0.5C
Operating Voltage		32.0~55.2V
Communication Interfaces		RS232 / CAN / RS485
Scalability		Up to 20 units
Expansion Function		Aerosol Fire Extinguishing Device/Bluetooth
Charge & Discharge		
Standard Charging/Discharging Current		80A
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		-40~60°C (-40° 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		IP65
Mechanical		
Dimension(L*W*D)		690*243*1000mm
Weight(approximately)		188.2kg
Installation		floor
Certification		
UN38.3, MSDS, Marine Report, ULI973		

*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.