



GLOBAL POWER



## Sodium-ion Battery

# Home Energy Storage Battery Series

48V 320Ah 15.36kWh

Version: V1.2



The W16-5C is a comprehensive home wall-mounted solar Na-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.

## W16-5C

### FEATURES

#### Multi-Scenario

Wall-Mounted Energy Solution, 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: Wall-Mounted '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

## Dimensions



Product Name	W16-5C
<b>Electrical Characteristics</b>	
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
<b>Charge &amp; Discharge</b>	
Standard Charging/Discharging Current	160A
Max continuous charge/discharge current	200A
Conversion Efficiency	99%, 25°C/0.5C
<b>Environmental</b>	
Working Environment	Indoors/Under the outdoors eaves
Charging Temperature	-40~55°C (-40° 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
<b>Mechanical</b>	
Dimension(L*W*D)	1000*690*243mm
Weight(approximately)	214kg
Installation	Wall mounted or floor
<b>Certification</b>	
UN38.3, MSDS, Marine Report	

\*Heaters built-in batteries, if temperature is below 0 degree, when charge the battery, it will warm the battery, to enable battery be charged smoothly.