

Na<sup>+</sup>

## Sodium-ion Battery

# Home Energy Storage Battery Series

48V 160Ah 7.68kWh

Version: V1.2



The R8-5C is a comprehensive home Rack-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.

R8-5C

## FEATURES

### Multi-Scenario

Rack-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: IP20 Rating + Anti-Corrosion Coating
- Space Optimization + Carbon Reduction, Compact Design, Carbon Emission Visualization

### Longer Life and Safer

Intrinsic Safety Design: Rack-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

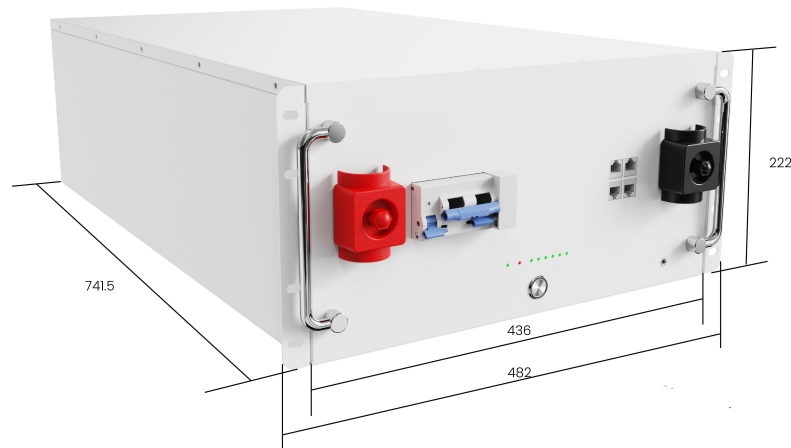
- Up to 20 units in parallel, The parallel system's max capacity is 153.6kWh
- Energy Ecosystem Integration

### Certification

Global Safety Passport, Authoritative Quality Endorsement

- UN38.3, MSDS, Marine Report

## Dimensions



Product Name	R8-5C
<b>Electrical Characteristics</b>	
Nominal Voltage	48V
Rated Capacity	160Ah
Energy	7680Wh
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	80A
Max continuous charge/discharge current	200A
Conversion Efficiency	99%, 25°C/0.5C
<b>Environmental</b>	
Working Environment	Indoors/In cabinet
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	IP20
<b>Mechanical</b>	
Dimension(L*W*D)	741.5*482*222mm
Weight(approximately)	104kg
Installation	Rack mounted
<b>Certification</b>	
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.