

Household energy storage battery series

CF - Sodium Wal-5

48V 160Ah 7.68kWh

Version: V1.1



The CF-SodiumWal-5 solar sodium battery is specially designed for households. It is equipped with an intelligent BMS, which not only monitors and optimizes battery performance in real time to extend its lifespan, but also supports remote control through a mobile app, allowing you to always be aware of home energy dynamics. Easy and flexible installation, wall mounted design is beautiful and space saving, and the mobile power supply can be changed in emergency situations to ensure worry free power supply for household appliances and easily cope with various scenarios. There are multiple protections such as overcharging, overdischarging, short circuit, high and low temperature, etc., which comprehensively protect the safety of battery operation and build a solid safety defense line for the whole family's electricity use. It is the reliable energy choice for your home.

product superiority



Multi-Scenario Applications

Wall Space Empowerment, Unlocking Energy Freedom for Your Home

- Photovoltaic Power Consumption + Peak-valley Arbitrage Emergency Backup Power + Grid Intersection
- Extreme Environment Guardian: Maintains 75% battery capacity even at -40°C startup, delivering reliable power in winter power outages across cold regions
- Coastal high humidity worry-free: IP65 protection + anti-corrosion coating, easily handles salt spray and humid environments, suitable for offshore residences
- Space optimization and eco-friendly carbon reduction, with compact unit designs and carbon footprint visualization



Long Safety Lifespan

Intrinsic Safety Design: The "Ten-year Safe" on the Wall

- Cell-level safety fortress, 300°C thermal runaway protection: Sodium battery thermal stability far exceeds lithium battery (Lithium battery overheating at 90°C, needle pricking and cutting do not cause fire or explosion, certified by UL1973)
- BMS Intelligent Protection Network with triple-layer protection: millisecond-level interruption for overcharge/overdischarge/short circuit, and automatic power-off when temperature exceeds 60°C. It operates across a wide temperature range (-40°C to 60°C) while maintaining 75% discharge efficiency.
- ECONOMIC MODEL OF ULTRALONG LIFE: Capacity retention rate > 80% after 9000 cycles, daily charge-discharge 1 time can meet 24 years of use



Efficient Maintenance

AI-powered operations reduce costs by 70%

- AI-powered life prediction system provides 6-month battery aging alerts with 92% accuracy
- Remote diagnostics, real-time monitoring of voltage, temperature, and capacity degradation via the app, with fault codes sent to maintenance with one click
- The device automatically enters sleep mode when idle for long periods, and automatically recharges to 60% capacity each month. In humid environments, it activates moisture-proof mode to extend circuit lifespan.



Extend Without Limits

Intelligent Expansion: Flexible Architecture, Adapt to Demand

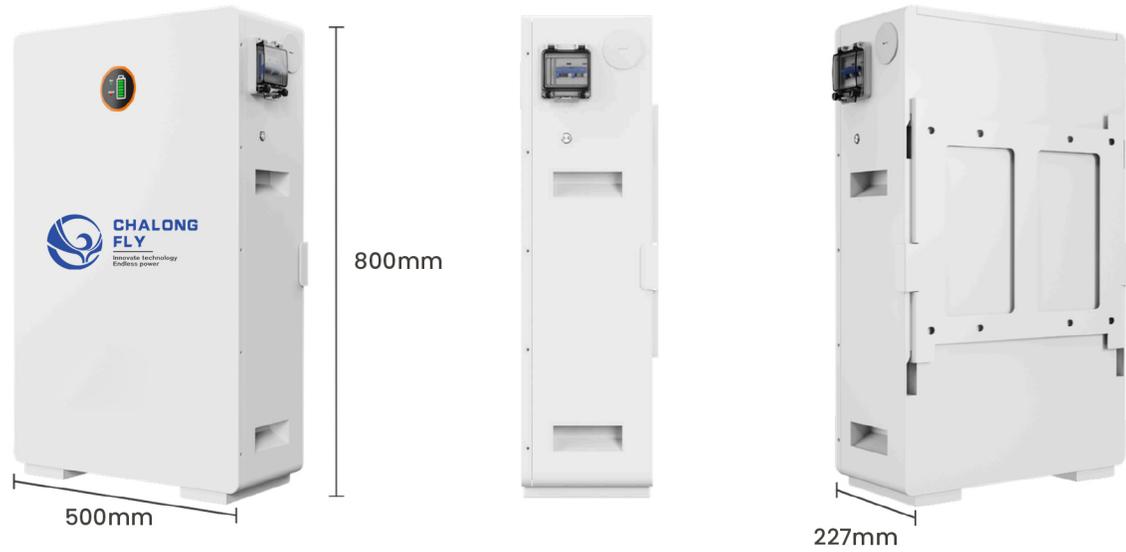
- Supports up to 20 parallel devices, with a maximum system capacity of 153.6 kWh
- Integration of energy and ecological systems



Attestation

Global Security Pass, the authoritative endorsement of quality

- UN38.3, MSDS, shipping report, UL1973



product **CF-SodiumWal-5 (Wall-Mounted Sodium-ion Home Battery)**

Electrical Character

nominal voltage	48V
nominal capacity	160Ah
energy	7680Wh
cell	sodium ion battery
cycle life	9000 times @ 80%DOD,25°C/
working voltage	0.5C 32.0~55.2V RS
communication interface	232/ CAN / RS485
extendibility	≤20 groups
extended function	Aerosol fire extinguishing device with Bluetooth

charge-discharge efficiency

Standard charge/discharge current, maximum discharge current, conversion efficiency	80A 200A 99%,25°C/0.5C
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environment

Installation environment	Indoor/Outdoor eaves: 0~55°C (32° F~131° F) to 40~60°C (-4° F~140° F)
charge temperature	
discharge temperature	20°C~45°C (68°F~113°F) for three months
storage temperature	Operating at 25±3°C (77°F±5.4°F) for over three months, with 65+20%RH and natural cooling, IP65 rating
storage humidity	
cooling-down method	
levels of protection	

Structure

Dimensions (length, width, height) and weight	800*500*227mm 112.5kg
way to install	Wall-mounted / floor-standing

attestation

UN38.3, MSDS, shipping report, UL1973

*The product may differ slightly from promotional videos or images. Please refer to the actual product. Unless otherwise specified, all data on this page is from our laboratory and may be subject to errors due to environmental changes. *Specifications may change without notice.