



5.12kwh 100A Lithium Batterie Lifepo4 Rackmount Lithium Battery Home Energy Storage System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: XWELL
- Certification: UN38.3,MSDS,UL,CB,BIS,PSE,GB4943.1 safety standard, CE, FCC, ROHS, battery UN38.3, MSDS, UL, CB, BIS, PSE
- Model Number: XW-1024W-1
- Minimum Order Quantity: 1 pcs
- Price: USD
- Packaging Details: Carton
- Delivery Time: 7-10 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 5000 pcs per month



Product Specification

- Max Continuous Charge Curre: 100A
- Nominal Capacity: 100A
- Voltage(V): 5.12kwh
- Cell Type: LiFePO4 Prismatic Cell
- Discharge Cut-off Voltage: 42.5V
- Communication Interface: RS485, RS232, CAN
- Nominal Capacity (kwh): 5.12kwh
- Highlight: **5.12kwh Rackmount Lithium Battery, 100A Rackmount Lithium Battery**

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Product Description

5.12kwh 100A Lithium Batterie Lifepo4 Rackmount Lithium Battery Home Energy Storage System

Rackmount Lithium Battery Energy Storage System

Rackmount lithium-ion battery systems are modular energy storage solutions designed for installation in 19-inch server racks. They provide scalable, high-density battery backup power for applications like data centers, telecom networks, and industrial facilities.

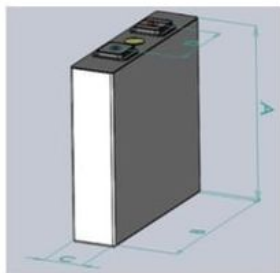
Features

- Lithium-ion battery cells, typically NMC or LFP chemistry
- Modular, hot-swappable battery packs for easy capacity scaling
- Integrated battery management system (BMS) for safety and monitoring
- Rack-mountable enclosure with standard 19-inch rack dimensions
- High energy and power density compared to lead-acid batteries
- Long cycle life and low maintenance requirements

Rackmount Lithium Battery Specification

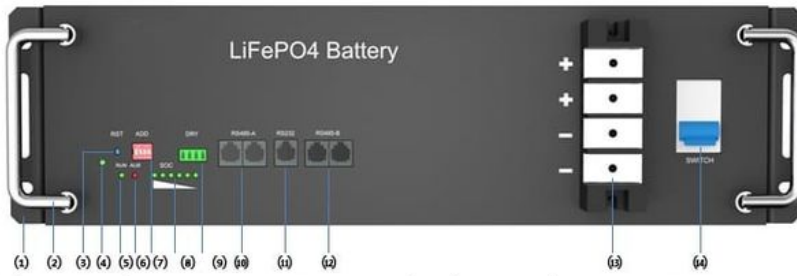
| | | | |
|-----------------------------|-----------------------|-------------------|-------------------|
| Model | 51.2V50Ah | 51.2V100Ah | 51.2V200Ah |
| Nominal voltage | 51.2V | | |
| Nominal capacity (kwh) | 2.56 | 5.12 | 10.24 |
| Cell type | LiFePO4 | | |
| Standard charge voltage | 54.6V(adjustable) | | |
| Max charge current | 50A | | |
| Discharge cut-off voltage | 42.5V(adjustable) | | |
| Max discharge current | 50A | | |
| Display | LCD(Optional) | | |
| Communication interface | CAN/RS485/RS232 | | |
| Cycle life | >6000 Cycles (80%DOD) | | |
| Charge temperature range | 0~45°C | | |
| Discharge temperature range | -20~60°C | | |
| Color | Black | | |
| Dimension (mm) | 442x410x133 3U | 442x410x177 4U | 550x442x220 5U |
| Weight | About 35Kg | About 42Kg | About 84Kg |
| Installation method | Rack Mount | | |

Cell Specification of Rackmount Lithium Battery



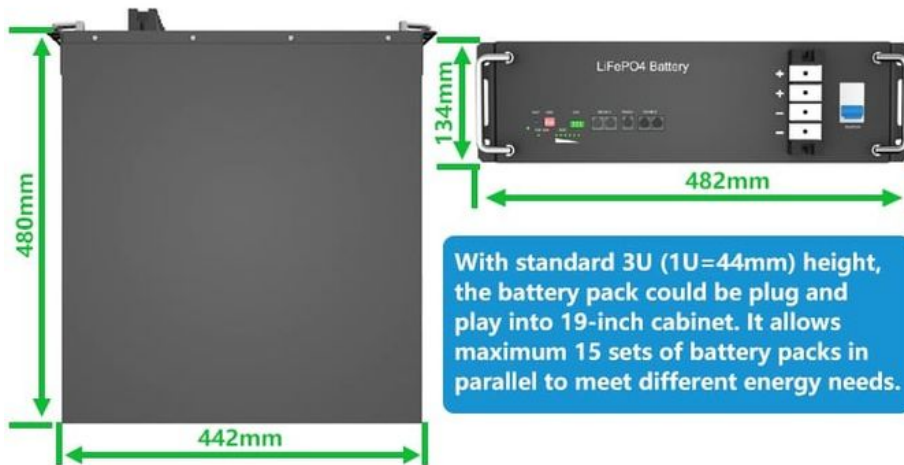
| # | Item | Parameter |
|---|---------------|------------|
| A | Height | 119±1.0 mm |
| B | Width | 160±1.0 mm |
| C | Thickness | ≤50 mm |
| D | Tabs Distance | 97±0.5 mm |

Operation Panel of Rackmount Lithium Battery

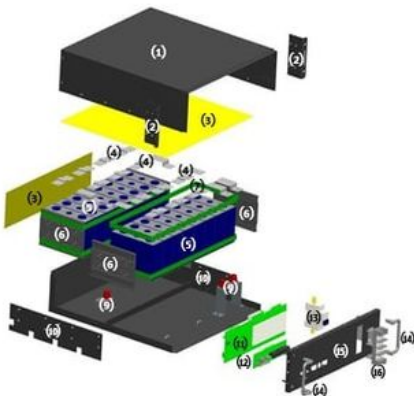


| # | Item | Function | # | Item | Function |
|-----|-------------------|---|------|---------------|---------------------------------------|
| (1) | Case Hanger | mount in 19 inch cabinet or anti-seismic rake | (8) | SOC Indicator | Indicate battery capacity percentage |
| (2) | Handle | easy to handle, move and install | (9) | Dry Contact | remote on/off control by signal wires |
| (3) | Reset Switch | restart and wake up the battery | (10) | Comm. Port | RS485+RS232 |
| (4) | On/Off Indicator | turn on/off green and indicate battery on/off | (11) | Comm. Port | RS232 |
| (5) | Working Indicator | turn on green and indicate normal operation | (12) | Comm. Port | RS485+RS232 |
| (6) | Alarm Indicator | turn on red when there is alarm or failure | (13) | Terminal Bar | charge and discharge terminal |
| (7) | DIP Switch | define battery IP for parallel connection | (14) | DC Switch | turn battery on/off |

Size of Rackmount Lithium Battery



Structure of Rackmount Lithium Battery



| # | Item | Material |
|------|------------------------------|---------------------|
| (1) | Case Cover | SPCC |
| (2) | Case Hanger | SPCC |
| (3) | Insulation Sheet | Ethoxyline |
| (4) | Bus-Bar | Aluminum Alloy |
| (5) | Battery Cell | LFP, Aluminum Shell |
| (6) | Module Side Plate | ABS / PC |
| (7) | Cell Binding Loop | Plastic Steel |
| (8) | Case Bottom | SPCC |
| (9) | Insulating Wiring Terminal | Bakelite |
| (10) | Side Plate Combination Board | SPCC |
| (11) | BMS | PCB |
| (12) | Commination Board | PCB |
| (13) | DC Switch | / |
| (14) | Handle | Sherardized SPCC |
| (15) | Case Front Cover | SPCC |
| (16) | Terminal Bar (+ & -) | / |

Application of Rackmount Lithium Battery

Application Scenario



Data Center



C&I Park



Telecom Base



Medical Equipment

Why choose us?

We production of battery products are widely used in communications, power, financial systems, uninterruptible power supply systems (UPS), power plant and substation switch control, solar panels, controllers inverter etc solar systems, emergency lighting, alarm systems, cars, ships, motorcycles, electric bicycles and other industries. Sales network covers all provinces, municipalities, autonomous regions and established offices in various places and after-sales service center.

Our team with Yuasa ,BYD battery senior consultant,High quality technical management team, advanced production and testing equipment to ensure the quality of the battery is reliable.



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