



OEM ODM Low-Voltage Rack-Mount Lithium Batteries For Industrial Applications

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

- Nominal Voltage: 40-58.4V
- Nominal Capacity: 1000Ah
- Standard Charge Voltage: 51.2V
- Nominal Energy: 10-30 Kwh
- Discharge Current: 1000A
- Discharge Cut-off Voltage: 42.5V
- Communication Interface: RS485, RS232, CAN
- Cycle Life: >6000 Cycles(80%DOD)

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Product Description

OEM ODM Low-Voltage Rack-Mount Lithium Batteries For Industrial Applications

Rackmount Lithium Battery

These low-voltage, rack-mount lithium battery systems are designed for reliable, high-performance power backup and storage in industrial and manufacturing environments. Featuring a compact, space-saving form factor, these batteries provide consistent, long-lasting power to mission-critical equipment and systems.

Key Features:

Low-voltage operation (24V, 48V, or 72V DC) for compatibility with industrial electrical infrastructures

Rack-mount chassis for easy integration into standard server racks and enclosures

Lithium-ion battery chemistry offers high energy density, rapid charge/discharge capabilities, and extended service life

Modular, scalable design allows customization to meet specific power and runtime requirements

Advanced battery management system monitors cell health, optimizes charging, and prevents overheating/overcharging

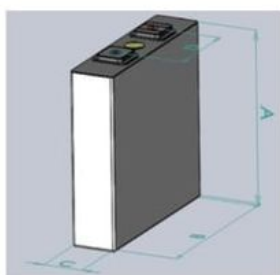
Rugged, industrial-grade construction with protective housings, shock/vibration resistance, and weatherproofing

Quiet, low-maintenance operation with no cooling fans or moving parts

Rackmount Lithium Battery Specification

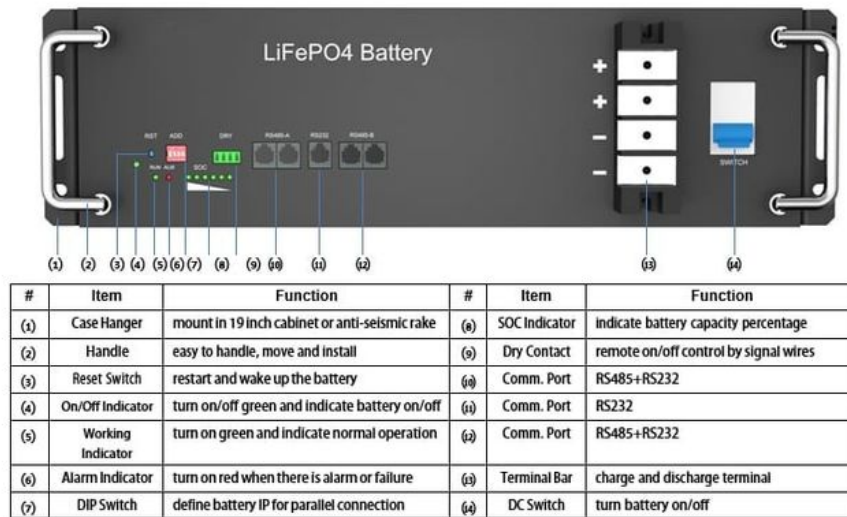
| Model | 51.2V50Ah | 51.2V100Ah | 51.2V200Ah |
|-----------------------------|-----------------------|-------------------|-------------------|
| Nominal voltage | 51.2V | | |
| Nominal capacity (kwh) | 2.56 | 5.12 | 10.24 |
| Cell type | LiFePO4 | | |
| Standard charge voltage | 54.6V(adjustable) | | |
| 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

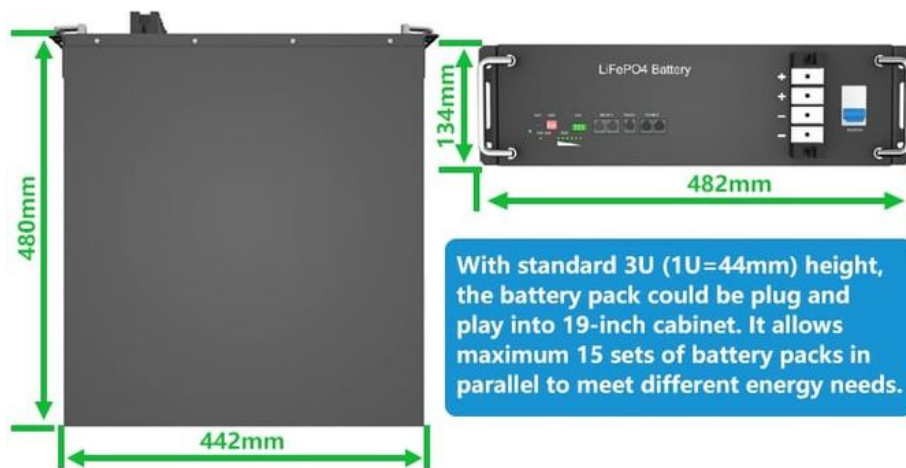


| # | Item | Parameter |
|---|---------------|------------|
| A | Height | 119±1.0 mm |
| B | Width | 160±1.0 mm |
| C | Thickness | ≤ 50 mm |
| D | Tabs Distance | 97±0.5 mm |

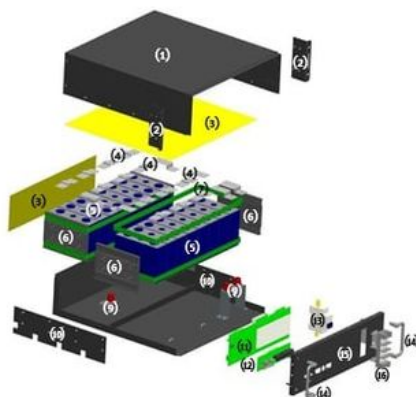
Operation Pannel of Rackmount Lithium Battery



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

FAQ

1. Is the battery used in the battery pack grade A?

Yes, we only use Grade A and Brand new cells inside.

2. Do you test and match the battery before installing the battery pack?

Yes, every cell will be tested capacity, IR, voltage to surely match

Voltage: The deviation less than 0.01V

Resistance: The deviation less than 0.1mΩ

Capacity: Same capacity matched

3. How do I store my batteries?

When the product is not in use for a long time, it should be stored in a dry, clean and well-ventilated warehouse at 10°C 35°C, avoiding inflammable and explosive materials; the battery pack should be charged and maintained regularly every three months to ensure that the battery best performance state.

4. What is the cycle life of the battery?

6000 cycle life @ 80% DOD

5. What's the warranty of your 48V/51.2V battery pack?

5 years warranty, if there is broken item under quality problem within warranty time, we will offer free replacements or refund, up to your needs

6. Do your batteries support series or parallel connection?

Our 48V battery packs support up to 15pcs in parallel, if you need series connection, please contact our sales staff



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