



High Voltage 50kWh Lifepo4 Rackmount Lithium Battery Energy Storage System For Industrial Application

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

- Working Voltage Range: 456V-584V
- Cell Type: LiFePO4 Prismatic Cell
- Max Charge/discharge Current: 100A
- Communication Interface: RS485, RS232, CAN
- Apparent Capacity (kwh): 10.24kwh
- Apparent Voltage: 51.2V
- Chemistry: Lifepo4
- Highlight: **Industrial Application Rackmount Lithium Battery**
, 50kWh Rackmount Lithium Battery,
High Voltage Rackmount Lithium Battery

Product Description

High voltage rack-mounted 50kWh Lifepo4 Rackmount Lithium Battery Energy Storage System for Industrial Applications

Rackmount Lithium Battery Energy Storage System

The High-Voltage Rack-Mounted 50kWh Lifepo4 Industrial Lithium Battery Energy Storage System is a cutting-edge solution for industrial applications.

Designed to meet the demanding power needs of industrial settings, this energy storage system offers a reliable and efficient source of power. With a capacity of 50kWh, it can store a significant amount of energy, providing backup power during outages or peak demand periods.

Key Features:

High-voltage 380-480V AC operation for seamless integration with three-phase industrial electrical systems

50 kWh total capacity from a single rack-mounted enclosure, with scalable modular design for increased runtime

Lithium iron phosphate (LifePO4) battery chemistry offers superior safety, thermal stability, and cycle life

Rack-mount chassis enables easy installation in standard server rooms, electrical rooms, and equipment closets

Advanced battery management system optimizes performance, prevents overcharging/overheating, and extends lifespan

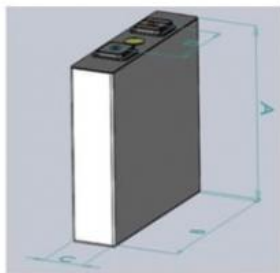
Rugged, industrial-grade construction with protective enclosure, shock/vibration resistance, and IP54 environmental rating

Quiet, low-maintenance design with no cooling fans or moving parts for reliable 24/7 operation

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

Why choose us?

Technical specifications and performance capabilities
Safety record and certifications
Warranty terms and after-sales support
Integration with existing infrastructure
Cost-effectiveness and total cost of ownership
Company reputation, experience, and financial stability
Scalability and flexibility to adapt to changing needs



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