



## 50kWh Industrial-Grade High Voltage Rackmount Lifepo4 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

- Apparent Power(kwh): 51.2kwh
- Rated Voltage: 512V
- Top Charge/discharge Current: 100A
- Cell Kind: LiFePO4 Prismatic Cell
- Communication Interface: RS485, RS232, CAN
- Nominal Volume (kwh): 10.24kwh
- Chemistry: Lifepo4
- Function Temperature Range: Charging 0~55 Discharging -20~55
- Highlight: **50kWh Rackmount Lifepo4 Energy Storage System**  
**, Rackmount Lifepo4 Energy Storage System**

## Product Description

### 50kWh High voltage Lifepo4 Rackmount Energy Storage System for Industrial Applications

The 50kWh capacity makes it suitable for a wide range of applications. For example, in commercial and industrial settings, it can be used to store excess energy generated during off-peak hours from renewable sources such as solar panels or wind turbines. This stored energy can then be utilized during peak demand periods, reducing reliance on the grid and potentially lowering energy costs. It can also provide backup power in case of grid failures, ensuring the continuous operation of critical equipment and systems.

Built with high-quality LiFePO<sub>4</sub> batteries, it offers a long lifespan, high energy density, and excellent safety features. The rackmount design makes it easy to install and integrate into existing commercial infrastructure.

#### Applications:

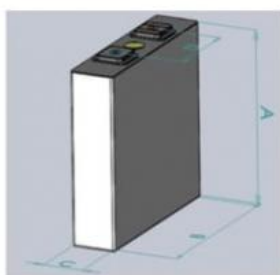
#### Benefits:

Optimized for large-scale industrial and commercial settings  
Efficient high-voltage operation for improved system performance  
Modular rackmount design for easy installation and scalability  
Reliable and safe LiFePO<sub>4</sub> battery technology  
Versatile solution for energy storage and grid integration needs

#### Rackmount Lithium Battery Specification

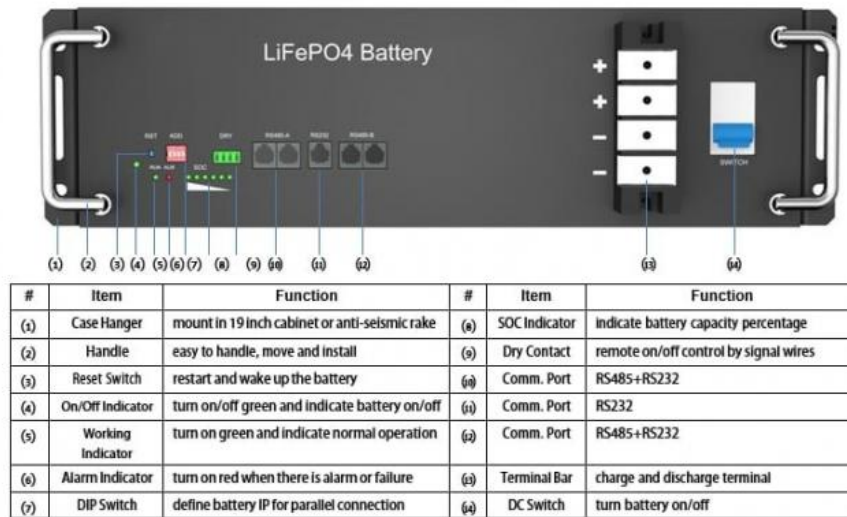
| Model                       | 51.2V50Ah             | 51.2V100Ah        | 51.2V200Ah        |
|-----------------------------|-----------------------|-------------------|-------------------|
| Nominal voltage             | 51.2V                 |                   |                   |
| Nominal capacity (kwh)      | 2.56                  | 5.12              | 10.24             |
| Cell type                   | LiFePO <sub>4</sub>   |                   |                   |
| 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<br>3U     | 442x410x177<br>4U | 550x442x220<br>5U |
| Weight                      | About 35Kg            | About 42Kg        | About 84Kg        |
| Installation method         | Rack Mount            |                   |                   |

#### Cell Specification of Rackmount Lithium Battery

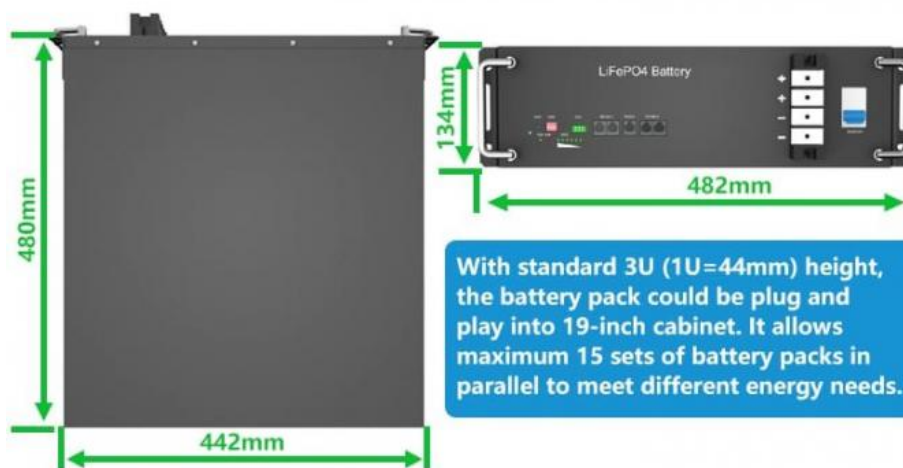


| # | Item          | Parameter  |
|---|---------------|------------|
| A | Height        | 119±1.0 mm |
| B | Width         | 160±1.0 mm |
| C | Thickness     | ≤50 mm     |
| D | Tabs Distance | 97±0.5 mm  |

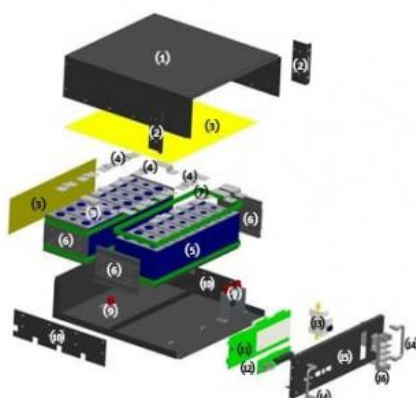
#### Operation Pannel of Rackmount Lithium Battery



### 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



**XWELL** GUANGDONG XWELL TECHNOLOGY CO., LTD.



+86 18620492985



[sales@esslithiumbattery.com](mailto:sales@esslithiumbattery.com)



[esslithiumbattery.com](http://esslithiumbattery.com)

Room 322, Building 3, No. 801, Qiaoxing Avenue, Xiaoluo Village, Shatou Street, Panyu District, Guangzhou, China