

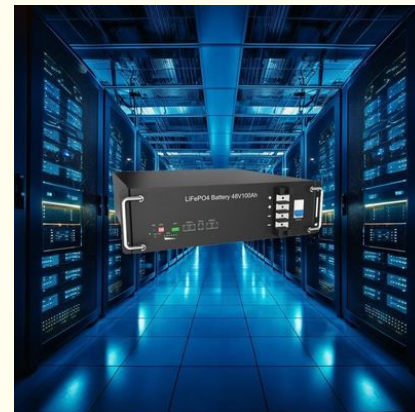


## High Voltage Rack-Mounted 50kWh Lifepo4 Commercial Energy Storage Systems Solar Batteries

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

- Operating Voltage Range: 456V-584V
- Nominal Voltage: 51.2V
- Cell Type: LiFePO4 Prismatic Cell
- Max Charge/discharge Current: 1000A
- Communication Interface: RS485, RS232, CAN
- Nominal Capacity (kwh): 10.24kwh
- Chemistry: Lifepo4
- Highlight: **Lifepo4 Commercial Energy Storage Systems, 50kWh Commercial Energy Storage Systems, High Voltage Rackmount Lithium Battery**

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## Product Description

### High Voltage Rack-Mounted 50kWh Lifepo4 Commercial Energy Storage Systems Solar Batteries

#### Rackmount Lithium Battery Energy Storage System

These are large-scale energy storage systems designed for commercial and industrial applications, such as renewable energy integration, grid support, and backup power. They use lithium iron phosphate (LiFePO<sub>4</sub>) battery cells, which are known for their safety, long cycle life, and high energy density.

#### Capacity and Voltage:

The 50kWh capacity provides significant energy storage to complement solar, wind, or other renewable energy systems. The systems are typically high-voltage, such as 480V AC, to support large-scale grid-tied applications.

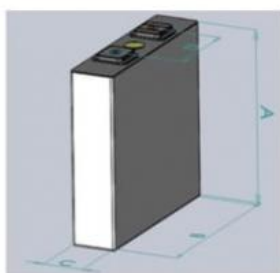
#### Physical Design:

The systems are designed for rack mounting in server rooms, electrical rooms, or other commercial/industrial spaces. This allows for scalable, modular installation to meet varying power and energy 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	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 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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