



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 (LiFePO₄) 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.

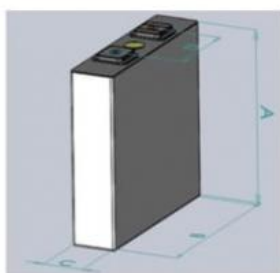
Physical Design:

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

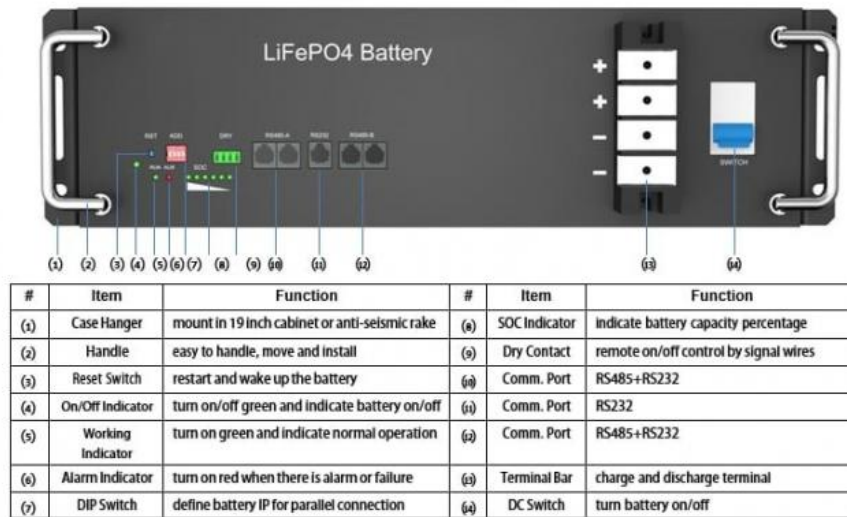
Model	51.2V50Ah	51.2V100Ah	51.2V200Ah
Nominal voltage	51.2V		
Nominal capacity (kwh)	2.56	5.12	10.24
Cell type	LiFePO ₄		
Standard charge voltage	54.6V(adjustable)		
Max charge current	50A		
Discharge cut-off voltage	42.5V(adjustable)		
Max discharge current	50A		
Display	LCD(Optional)		
Communication 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

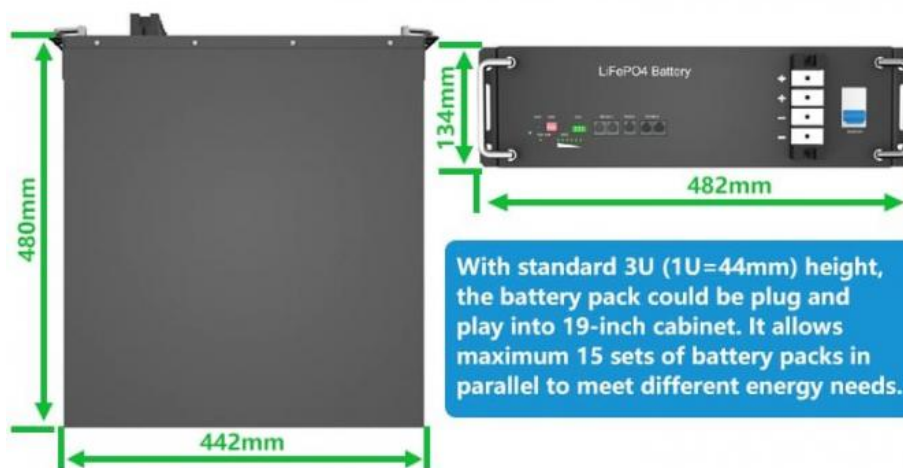


#	Item	Parameter
A	Height	119±1.0 mm
B	Width	160±1.0 mm
C	Thickness	≤50 mm
D	Tabs Distance	97±0.5 mm

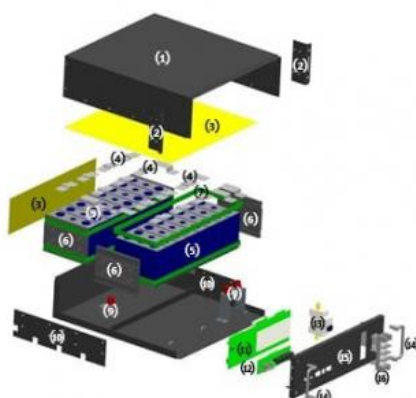
Operation Pannel of Rackmount Lithium Battery



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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