



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 LiFePO₄ 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:

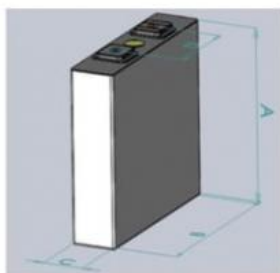
Benefits:

- 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 LiFePO₄ 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 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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