



50kWh High Voltage Lifepo4 Rackmount Energy Battery For Industrial Applications

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

- Nominal Energy(kwh): 51.2kwh
- Nominal Voltage: 456V-584V
- Max Charge/discharge Current: 100A
- Cell Type: LiFePO4 Prismatic Cell
- Communication Interface: RS485, RS232, CAN
- Chemistry: Lifepo4
- Operating Temperature Range: Charging 0~55 Discharging -20~55
- Cycle Life: >6000 Cycles
- Highlight: **High Voltage Rackmount Energy Battery, Industrial Rackmount Energy Battery, 50kWh Rackmount Energy Battery**

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Product Description

50kWh High Voltage Lifepo4 Rackmount Energy Battery For Industrial Applications

Capacity: This system has a total energy storage capacity of 50 kWh, making it suitable for large-scale industrial and commercial facilities.

Voltage: It operates at a high voltage, typically 480V AC, which is common for grid-tied and heavy industrial use cases.

Battery Chemistry: The battery cells used in this system are lithium iron phosphate (LiFePO₄), known for their excellent safety, long cycle life, and high energy density.

Rackmount Design: The modular rackmount form factor allows this high-voltage system to be easily installed and integrated into industrial facilities, electrical rooms, and other commercial spaces.

Key Features:

Scalable capacity to meet diverse energy storage needs

High-efficiency 480V AC operation for industrial use

Inherent safety of the LiFePO₄ battery chemistry

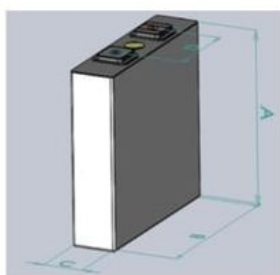
Long cycle life and dependable performance

Compact and space-saving rackmount configuration

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

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



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