



Low Voltage 30kwh 50kwh Rackmount Lifepo4 Lithium Battery Power Reserve Selection

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
- Cell Kind: LiFePO4 Prismatic Cell
- Unit: 6pcs-10pcs
- Peak Charge/discharge Current: 1000A
- Communication Interface: RS485, RS232, CAN
- Titular Capacity (kwh): 30-50kwh
- Formal Voltage: 51.2V
- Chemistry: Lifepo4
- Highlight: **30kwh Rackmount Lithium Battery, Low Voltage Rackmount Lithium Battery, 50kwh Rackmount Lithium Battery**

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Product Description

30kwh-50kwh Low Voltag Lifepo4 Rackmount Lithium Battery Energy Storage System For Industrial Applications

Capacity Range: These systems are typically available in capacities ranging from 30 kWh to 50 kWh, providing a scalable solution for different energy storage needs.

Voltage: They operate at lower voltages, such as 48V DC or 120/240V AC, making them more suitable for smaller industrial and commercial settings compared to high-voltage systems.

Battery Chemistry: Like the high-voltage systems, these also use lithium iron phosphate (LiFePO₄) battery cells, known for their safety, long cycle life, and reliability.

Rack Mount Design: The modular rackmount form factor allows these systems to be easily installed and integrated into industrial facilities, server rooms, and other space-constrained environments. The Rackmount Lithium Battery typically features advanced lithium-ion cell technology, which provides high energy density, long cycle life, and excellent charge-discharge efficiency. It can deliver a stable and reliable power output, ensuring continuous operation of critical equipment. With built-in battery management systems (BMS), it monitors and controls the battery's voltage, current, and temperature, enhancing safety and prolonging battery life. The BMS also enables functions such as overcharge protection, overdischarge protection, and short-circuit protection.

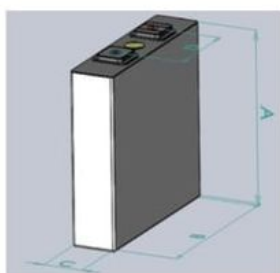
Use Cases:

Renewable energy integration and time-shifting
Backup power and uninterruptible power supply (UPS)
Peak shaving and load shifting to reduce energy costs
Frequency regulation and grid ancillary services

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

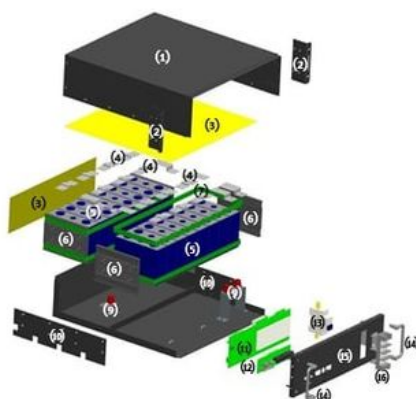
Operation Pannel of Rackmount Lithium Battery



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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