



High Voltage Lifepo4 Rackmount Lithium Battery 30kwh - 50kwh Power Storage Solution

Our Product Introduction

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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

- Official Voltage: 51.2V
- In Operation Voltage Range: 456V-584V
- Component: 6pcs-10pcs
- Cell Kind: LiFePO4 Prismatic Cell
- Max Charge/discharge Current: 600A-1000A
- Communication Interface: RS485, RS232, CAN
- Token Capacity (kwh): 30-50kwh
- Chemical Science: Lifepo4
- Highlight: 50kwh Rackmount Lithium Battery, High Voltage Rackmount Lithium Battery, 30kwh Rackmount Lithium Battery

Product Description

High Voltage Lifepo4 Rackmount Lithium Battery 30kwh-50kwh Energy Storage System For Industrial Applications

Product Description:

The High Voltage Lifepo4 Rackmount Lithium Battery is a powerful and reliable power storage solution. With a capacity ranging from 30kwh to 50kwh, it offers ample energy storage for various applications. The rackmount design makes it easy to install and integrate into different setups. Built with high-quality lithium iron phosphate technology, it provides long cycle life, high energy density, and excellent safety features. Whether for backup power, renewable energy storage, or industrial applications, this battery is a dependable choice for efficient power storage.



Our Product Introduction

Voltage: They operate at higher voltages, such as 480V AC, which is common for industrial and grid-tied applications. used in these systems are lithium iron phosphate (LiFePO4), known for their safety, long cycle life, and reliability.

Rack Mount Design: The modular rackmount form factor allows these high-voltage systems to be easily integrated into industrial facilities, electrical rooms, and other commercial spaces.

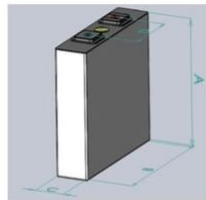
Use Cases:

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

Rackmount Lithium Battery Specification

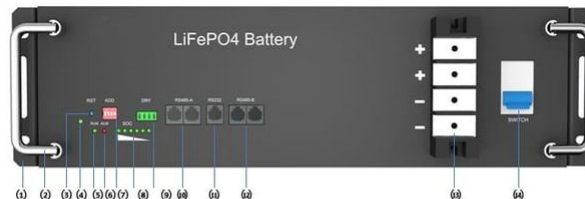
Model	51.2V50Ah	51.2V100Ah	51.2V200Ah
Nominal voltage	51.2V		
Nominal capacity (kwh)	2.56	5.12	10.24
Cell type	LiFePO4		
Standard charge voltage	54.6V (adjustable)		
Max charge current	50A		
Discharge cut-off voltage	42.5V (adjustable)		
Max discharge current	50A		
Display	LCD (Optional)		
Communication 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

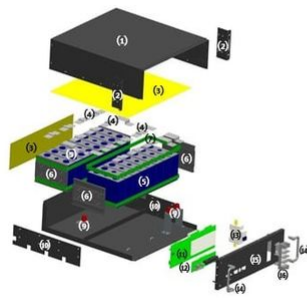


#	Item	Function	#	Item	Function
(1)	Case Hanger	mount in 19 inch cabinet or anti-seismic rack	(6)	SOC Indicator	Indicate battery capacity percentage
(2)	Handle	easy to handle, move and install	(7)	Dry Contact	remote on/off control by signal wires
(3)	Reset Switch	restart and wake up the battery	(8)	Comm. Port	RS485+RS232
(4)	On/Off Indicator	turn on/off green and indicate battery on/off	(9)	Comm. Port	RS232
(5)	Working Indicator	turn on green and indicate normal operation	(10)	Comm. Port	RS485+RS232
(6)	Alarm Indicator	turn on red when there is alarm or failure	(11)	Terminal Bar	charge and discharge terminal
(7)	DIP Switch	define battery IP for parallel connection	(12)	DC Switch	turn battery on/off

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



XWELL GUANGDONG XWELL TECHNOLOGY CO., LTD.

+86 18620492985

sales@esslithiumbattery.com

esslithiumbattery.com

Room 322, Building 3, No. 801, Qiaoxing Avenue, Xiaoluo Village, Shatou Street, Panyu District, Guangzhou, China