



Rack Mount Lifepo4 Lithium Ion Phosphate Battery Energy Storage Server Rack Battery 10kw 15kw 20kw 30kw

Basic Information

Place of Origin: ChinaBrand 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-5120W-1

Minimum Order Quantity: 1 pcsPackaging 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

Application: Solar Energy Storage Systems

Capacity: 5kwh

• Pack Capacity: 50Ah 100Ah 200Ah

Pack Energy: 2.56Kwh 5.12Kwh 10.24Kwh (Optional)

Discharge Current: 50A
Max Charge Current: 50A
Discharge Cut-off Voltage: 42.5V
Display: LCD Optional

Communication Interface: RS485, RS232, CAN
 Cycle Life: >6000 Cycles(80%DOD)

Highlight: 20kw Rack Mount Lifepo4 Battery,

30kw Rack Mount Lifepo4 Battery, 15kw Rack Mount Lifepo4 Battery

Product Description

Rack Mount Lifepo4 Lithium Ion Phosphate Battery Energy Storage Server Rack Battery 10kw 15kw 20kw 30kw

1. Quickly recharge

Save time and increase productivity with less down time

thanks to superior charge/discharge efficiency.

2.Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is usually high:up to +60°C 3.Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

Basic Functions for Long-Term Safe Use

Voltage Detection and Protection: Prevents overvoltage and undervoltage conditions in the battery.

Current Detection and Protection: Monitors charging and discharging currents to prevent excessive current flow.

Temperature Detection and Protection: Monitors the temperature of battery cells, MOS, and the environment, providing warnings and protection during high and low-temperature charging and discharging.

Balancing Function: Effectively balances the charge levels of individual cells, enhancing the battery's lifespan.

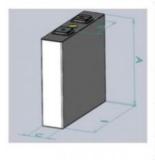
Short Circuit Protection: Detects and protects against discharge circuit short circuits promptly.

Reverse Polarity Protection: Activates reverse polarity protection upon detecting output reversal when powered on, preventing damage to connected devices.

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



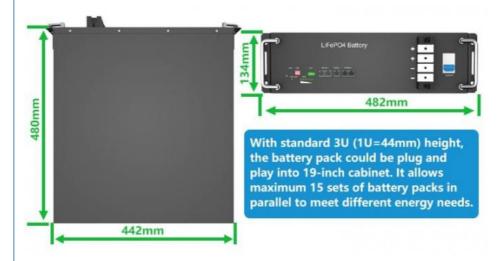
#	Item	Parameter
A	Height	119±1.0 mm
В	Width	160±1.0 mm
С	Thickness	≤50 mm
D	Tabs Distance	97±0.5 mm

Operation Pannel of Rackmount Lithium Battery

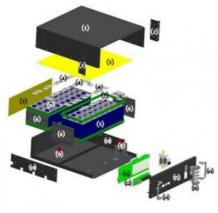


#	Item	Function	#	Item	Function
(1)	Case Hanger	mount in 19 inch cabinet or anti-seismic rake	(8)	SOC Indicator	indicate battery capacity percentage
(2)	Handle	easy to handle, move and install	(9)	Dry Contact	remote on/off control by signal wires
(3)	Reset Switch	restart and wake up the battery	(10)	Comm. Port	RS485+RS232
(4)	On/Off Indicator	turn on/off green and indicate battery on/off	(11)	Comm. Port	RS232
(5)	Working Indicator	turn on green and indicate normal operation	(12)	Comm. Port	RS485+RS232
(6)	Alarm Indicator	turn on red when there is alarm or failure	(13)	Terminal Bar	charge and discharge terminal
(7)	DIP Switch	define battery IP for parallel connection	(4)	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 Shel
(6)	Module Side Plate	ABS / PC
(7)	Cell Binding Loop	Plastic Steel
(8)	Case Bottom	SPCC
(9)	Insulating Wiring Terminal	Bakelite
(io)	Side Plate Combination Board	SPCC
(11)	BMS	PCB
(12)	Commination Board	PCB
(B)	DC Switch	1
(14)	Handle	Sherardized SPCC
(15)	Case Front Cover	SPCC
(16)	Terminal Bar (+ & -)	1

Application of Rackmount Lithium Battery

Application Scenario



Data Center



C&I Park



Telecom Base



Medical Equipment

What We Offer?

Supply chain solution, strict quality control, real-time response OEM/ODM Manufacturer, custom sizes and shapes available on request Suggestion of new design or material, new technology and cost structure Engineers team at your service Flexible small orders are acceptable



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