



## Advanced High Performance ESS Lithium Battery Powering Sustainable Energy Storage Solutions

### 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
- Ostensible Voltage: 512V
- Peak Charge/discharge Current: 100A
- Cell Category: LiFePO4 Prismatic Cell
- Communication Interface: RS485, RS232, CAN
- Nominal Capacity (kwh): 10.24kwh
- Chemical Science: Lifepo4
- Operating Temperature Range: Charging 0~55 Discharging -20~55
- Highlight: **Sustainable Energy Storage ESS Lithium Battery**  
**, High Performance ESS Lithium Battery ,**  
**Advanced ESS Lithium Battery**

## Product Description

### 50kWh High voltage Lifepo4 Rackmount Energy Storage System for Industrial Applications

#### Applications:

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

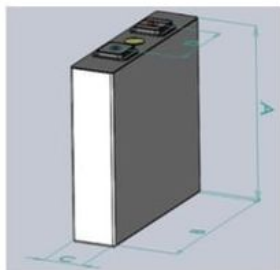
#### Benefits:

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	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



### 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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