

PowerRack-A

PowerRack-A rack system is also designed for indoor high-voltage applications. Based on a standardized 5.12 kWh battery module design, it is well suited for medium-scale C&I scenarios. It can be used to increase solar self-consumption and supports applications such as backup power supply and peak shaving.



Features And Advantages

- Safe and reliable**
 High safety LFP, cell level monitoring and balancing. Intelligent BMS monitors battery status in real time.
- Wide Application**
 Cover all needs in Industrial&Commercial fields.
- Flexible Expansion**
 Modular design, up to 16 clusters in parallel, 20.48kWh to more than 1MWh.
- Smart control**
 Support 4G or Wi-Fi remote monitoring and management functions, enabling 24/7 online monitoring of battery clusters.

Specification

Model	PowerRack-A		
Main Parameter			
Battery Type	LiFePO4		
Battery Module Energy	5.12kWh		
Battery Module Capacity	100Ah		
Battery Module QTY In Series	4 (Min)	8	12
System Energy	20.48kWh	40.96kWh	61.44kWh
System Nominal Voltage	204.8V	409.6V	614.4V
System Operating Voltage	172.8-230.4V	345.6-460.8V	518.4-691.2V
Recommend Charge/Discharge Current	50A		
Max. continuous Charge/Discharge Current	100A		
Other Parameter			
Recommend depth of discharge	90%		
Cycle Life	≥6000 (25°C±2°C,0.5C,90%DOD,70%SOH)		
Operating Temperature	Charge: 0°C~65°C; Discharge:-20°C~65°C		
Storage Temperature	-20°C~45°C in one month 0°C~35°C in three months		
Installation	Rack-mounted		
Protection	Bulit in smart BMS, Fuse		
Communication Port	CAN &RS485		
Humidity	5%~95%		
Altitude	<4000m		
Protection Level	IP20		
High Voltage Box	Product Dimension	510*415*210mm	
	Package Dimension	500*640*265mm	
	Product Weight	31kg	
	Package Weight	34kg	
Battery Module	Product Dimension	440*460*130mm	
	Package Dimension	558*547*249mm	
	Product Weight	44.5kg	
	Package Weight	49.5kg	
Rack(9 shelves)	Product Dimension	570*480*1650mm	
	Package Dimension	560*360*1650mm	
	Product Weight	51kg	
	Package Weight	65kg	
Rack(13 shelves)	Product Dimension	570*480*2250mm	
	Package Dimension	560*360*2250mm	
	Product Weight	68kg	
	Package Weight	85kg	