

Lithium Ion Battery (LiFePO4)

51.2V
100Ah-5.12kWh



Contact Information

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1.Scope of application

This product is a 5.12kWh energy storage lithium iron phosphate battery pack (including BMS).

It consists of 16 series and 1 parallel cells. This product is suitable for DC load equipment with operating current $\leq 100A$.

1. Product description: 51.2V100Ah is an intelligent energy storage power supply product using lithium iron phosphate battery system.

The main features of the product are as follows:

- 1) High energy density;
- 2) Ultra-long cycle life and low maintenance costs.
- 3) Equipped with RS485/RS232/CAN interface, which can realize data transmission and parallel networking.
- 4) Intelligent BMS system, equipped with host computer software to realize remote monitoring, alarm and shutdown functions.
- 5) Accurately measure SOC (remaining capacity/full charge capacity) and SOH (discharge capacity/nominal capacity).

2. Battery Specifications

Nominal Parameters	
Product	Lithium iron phosphate battery
Installation Mode	Wall Mounted
Rated Voltage	51.2V
Rated Capacity	100Ah
Energy	5.12kWh
Cell Brand	GOTION/EVE/REPT
Cell Unit	3.2V100Ah
BMS Brand	PACE
BMS Communication	RS485, RS232, CAN
Configuration	16S1P
Charge cutoff voltage	57.6V
Discharge cutoff voltage	43.2V
Life time(25°C)	15 years
Life cycles(80% DOD, 25°C)	6000 cycles
Maximum charging continuous current	100A
Maximum discharge continuous current	100A
Charging efficiency	$\geq 98\%$
Electricity charged in the shipped product	30%-50% SOC
Operating temperature	Charging: 0~55°C Discharge: -10~55°C
Storage temperature	- 20~60°C
Working humidity	10~85%
Storage humidity	10~85%
Dimensions (L x W x H)	About 540+-mm(W)*375+-mm(H)*147+-mm(D) Includes hanging 12mm (D)
Package size(L x W x H)	About 600+-mm(W)*465+-mm(H)*245+-mm(D)
Weight	About 45kgs
Modules Connection	Maximum 16 in Parallel
Ingress Protection	IP 21
Battery packaging accessories	
Desiccant (5g) 2 Bag; User Manual 1 Set; Positive and negative power cables 1 Set; 1 meter with RJ45 connector 1 Pc; Mounting frame screw (M8*60mm) 4 Pc;	