



Multifunction Lifepo4 Battery

12.8V 100Ah
1280Wh

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12.8V 100Ah Lifepo4 Battery

1. Overview

12.8V100Ah is Lithium iron phosphate battery module which designed for backup power application. This battery module integrated with intelligent BMS inside, has big advantages on safety, cycle life, energy density, temperature range and environmental protection. This product specification describes the type, size, structure, electrochemistry performance, service life, and BMS characteristics.

2. Battery features

The battery module consists of single LFP cells, wires, BMS and ABS container.

- ◆ Packed with high performance LFP single cell, long life, safety, and wide temperature range
- ◆ High energy density, small size, light weight, no pollution
- ◆ High efficiency, fast charging
- ◆ Packing with single cell container, fire retardant wire and copper connecting bar, stable and safe
- ◆ Built-in BMS, with battery voltage, current, temperature and health management
- ◆ Support Bluetooth communication monitoring, phone APP to check battery data in real
- ◆ Optional heating function, support be used below 0°C
- ◆ Self designed battery case, easy to carry, waterproof grade IP65
- ◆ Simple installation and expand capacity by parallel
- ◆ 10 years design life, stable performance, maintenance free




USB* 2 / Type-C

12.8V 100Ah Lifepo4 Battery Specifications

Item	Specification		Conditions
Nominal	Voltage	12.8V	25°C ,0.2C
	Capacity	100Ah	
Module Weight		13kg	±0.5kg
Dimensions(W*D*H), mm& Terminal		287*196*235/, M8	±2mm
Operating Parameters	Output Voltage	10.0-14.6V	M8 Terminal
		Refer to DC/DC transformer case (Optional Accessory)	
	Charging Voltage	14.6V	CC-CV
	Cut-off Voltage	10.0V	
	Charging Current	100A	Recommended <50A
	Discharging Current	150A	
Temperature	Charge Range	0°C ~45°C	
	Discharge Range	-20°C ~65°C	
	Storage Range	-20°C ~45°C	
BMS	Over-charge protection	>14.8V	
	Over-discharge protection	<10.0V	
	Over-current protection	Charging: >100±2.5A >120±2.5A	Delay 15S±2S Delay 2±1S
		Discharging: >155±2.5A >200±2.5A	Delay 10±1S Delay 1±1S
		Short circuit protection	Delay 1±0.5mS
	Cell balance	Passive, 100mA	
	Over temperature protection	Charging: <-5°C	or >70°C
		Discharging: <-20°C	or >75°C
	Bluetooth	2.4GHz	
Heating function	Turn on: <0°C Turn off: >5°C	Only heating during charging	
Service Life	Cycle Life	>6000 times	

DC/DC transformer case(Optional Accessory)

Item		Quantity	Output Specification
	Universal Serial Bus Type	USB-A	5V 2.4A
		USB-A	Quick charge 18W
		USB-C1	5V/9V/12V/15V=3A, 20V=3.25A(65W MAX)