# LFP12V200Ah

## Features Of LiFePO4 Battery

Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

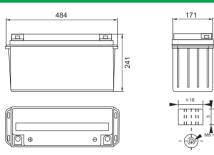
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

**Higher Power: Delivers twice power of !ead acid battery, even** high discharge rate, while maintaining high energy capacity.

Wider Temperature Range: -20 °C~60 °C.

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

### Physical Dimension-mm



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# Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

### **Specification**

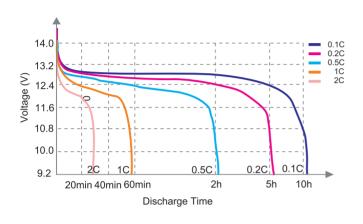
Mechanical	Plastic Case	ABS
	Approx. Dimensions	484mm*171mm*241mm
	Approx. Weight	18.4kg ( 40.48 lb)s
	Terminal	Т50
	Nominal Voltage	12.8V
	Nominal Capacity	200Ah
	Energy	2560Wh
Electrical	Internal Resistance(AC)	≪8 mΩ
Characteristics	Cycle Life	>2000 cycles @1C 100 %DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Continuous Current	400A
	Max. Pulse Current	400A(<3s)
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 $^\circ\!\!\!\mathrm{C}$ to 55 $^\circ\!\!\!\mathrm{C}$ (32Fto 131F) @60 $\pm$ 25 % Relative Humidity
	Discharge Temperature	-20 $^\circ\!\mathrm{C}$ to 60 $^\circ\!\mathrm{C}$ (–4F to 140F ) @60 $\pm$ 25 % Relative Humidity
	Storage Temperature	–20 $^\circ\!\!\mathrm{C}$ to 45 $^\circ\!\!\mathrm{C}$ (–4F to 113F) @60 $\pm$ 25 % Relative Humidity
	IP Class	IP65

## **BMS CHARACTERISTICS**

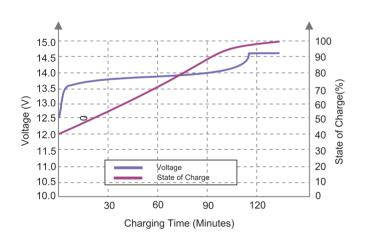
Primary Charging Protection	Current: 105 A	Delay Time: 20 s		
Second Charging Protection	Current: 200 A	Delay Time: 2~3 s		
Primary Discharging Protection	Current:110A	Delay Time: 30s		
Second Discharging Protection	Current : 200A	Delay Time: 2~3s		
Over Charge Voltage Protection	Voltage : 14.6 V	Delay Time: 1~2s		
Over Discharge Voltage Protection	Voltage: 10.8V	Delay Time: 1~2s		
Temperature Protection	PCB Temperature ≥95 °C	Delay Time: 2~3s		
Bluetooth(App)	Optional			
Heating Function	Optional			

4 Batteries in Series 4 battereis in Parallel 16pcs in total.

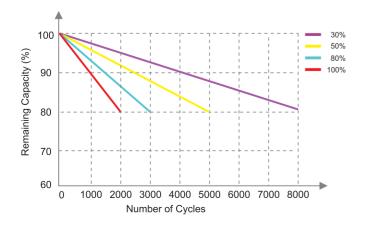
### Different Rate Discharge Curve(25℃)



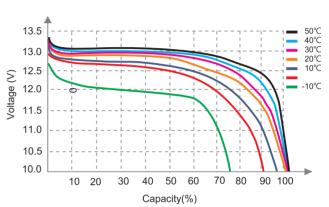
State of Charge Curve(0.5C, 25°C)



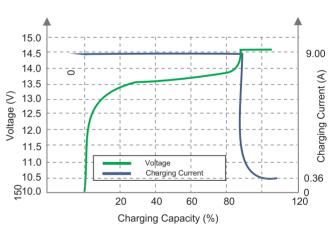
**Different DOD Discharge Cycle Life Curve(1C)** 



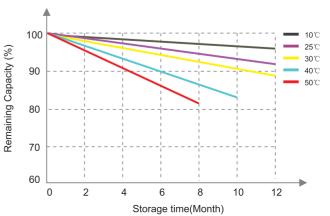
**Different Temperature Discharge Curve(0.5C)** 



Charging Characteristics(0.5C, 25℃)



Different Temperature Self Discharge Curve



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