

Lithium Iron Phosphate (Lifepo4) Battery

Specification

12.8V 100AH [1.28 KWH]

307*169*208mm



Features of LiFePo4 Battery

- » The whole module is non-toxic, non-polluting and environmentally friendly;
- » Cathode material is made from LiFePO4 with safety performance and long cycle life;
- » Battery management system(BMS)has protection functions including over-discharge, over-charge, over-current and high/low temperature;
- » Small size and light weight, comfortable for installation and maintenance

Application

- » Wheelchairs and scooters;
- » Solar/wind energy storage;
- » Back-up power for small UPS;
- » Golf trolleys & buggies

Electrical Charateristics	Nominal Volage	12.8V
	Nominal Capacity	100AH
	Energy	1280WH
	Internal Resistance (AC)	≤20mΩ
	Cycle Life	>3500 cycles @1C 80%DOD;4500 cycles @0.5C 80%DOD
	Months self Discharge	<3%
	Efficiency of Charge	100%@0.5C
	Efficiency of discharge	96-99% @0.5C
Standard Charge	Charge Voltage	14v or 28v for 2 in series
	Charge Mode	0.5C to 14.6V, then 14.6V,charge current to 0.02C(CC/cV)
	Charge Current	100A
	Max.Charge Current	100A
	Charge Cut-off Voltage	14.6±0.2V
Standard Discharge	Continuous Current	100A
	Max.Pulse Current	120A(<3S)
	Discharge Cut-off Voltage	11v or 22v for 2 in series
Environmental	Charge Temperature	0℃ to 55℃(32F to 131F)@60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (-4F to 140F)@60±25% Relative Humidity
	Storage Temperature	-20℃ to 45℃ (-4F to 113F)@60±25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	307×169×208mm
	Approx.Weight	13 kgs
	Terminal	M8

NOTE: This 12.8V series can be used in 4 series to 51.2V, when the battery be used in 4 series, please set charge cut-off voltage to 54.4v, discharge cut-off voltage to 48v, max charge current to 100A, max discharge current to 100A.

Performance characteristics

