

LFP Series Brief Introduce

LFP Series rechargeable LiFePO₄ Battery Pack for Replace VRLA Battery are ideal applications to RVS, solar energy, boats, and power equipment. These lithium batteries offer a safe and lightweight solution, with higher efficiency, longer lifespan, and deep discharge capabilities compared to traditional sealed lead-acid batteries. Designed with advanced LiFePO₄ technology, they provide benefits such as temperature protection and superior recharge and discharge efficiency. Just a little higher costs, these batteries are more cost-effective in the long term due to their extended life span. LFP Series LiFePO₄ batteries provide a reliable and worry-free energy solution for a range of applications.

Long
Life

Lithium Iron
Phosphate

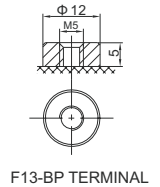
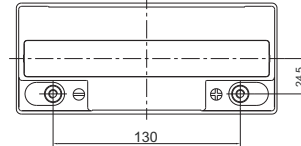
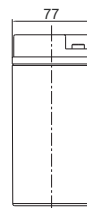
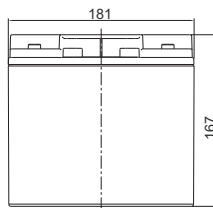
Deep
Cycle



Applications

- Solar Energy Storage System
- Wind Energy Power System
- UPS, Backup Power
- Telecommunication
- Electric Vehicles, Electric Mobility
- Lighting
- Medical Equipment

Dimensions & Weight



- Length: 181±1mm Width: 77±1mm Height:167±1mm Total Height: 170 ±1mm
- Weight: 2.25+0.1kgs



Technical Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	20Ah
	Energy	256Wh
	Terminal	M5
	Cycle Life	> 4000cycles @80% DOD
	Months Self Discharge	< 3%
	Efficiency of Charge	100 % @0.2C
Standard Charge	Efficiency of Discharge	96 ~99% @0.5C
	Charge Voltage	14.6-15.2V
	Charge Mode	0.2C to 13.6V, then 13.6V, charge current to 0.02C(CC/CV)
	Charge Current	4.0A
	Max. Charge Current	20A
Standard Discharge	Charge Cut-off Voltage	14.6V±0.2
	Continuous Current	10A
	Max continuous discharge current	20A
Environmental	Discharge Cut-off Voltage	10V
	Charge Temperature	0 °Cto 45 °C(32 F to 113 F) @60±25 % Relative Humidity
	Discharge Temperature	-20 °Cto 60 °C(-4F to 140 F) @60±25 % Relative Humidity
	Storage Temperature	0 °Cto 40 °C(32 F to 104 F) @60±25 % Relative Humidity
Mechanical	Water Dust Resistance	IP21
	Cell & Method	32650, 4S3P
	Plastic Case	ABS
	Dimensions (in./mm.)	181*77*170mm/7.13*3.03*6.69Ins
	Weight (lbs./kg.)	Approx: 2.25kgs/4.96lbs
	Gravimetric specific energy	113.78WH/KG
	Bluetooth (optional)	/
	LCD display (optional)	/

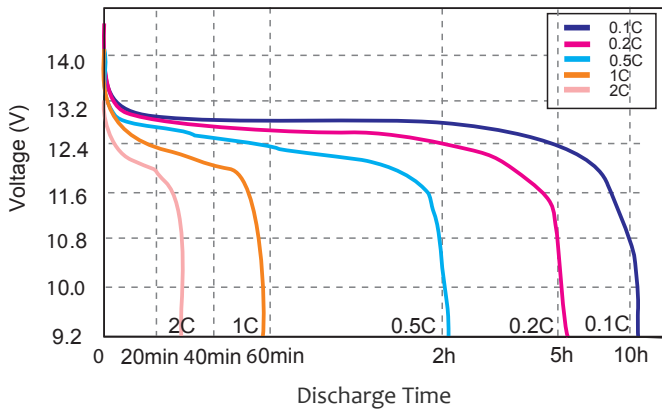
Note: All above information shall be changed without prior notice, CSSUN reserves the right to explain and update the latest information. Welcome contact CSSUN for the latest information.

BMS Specifications

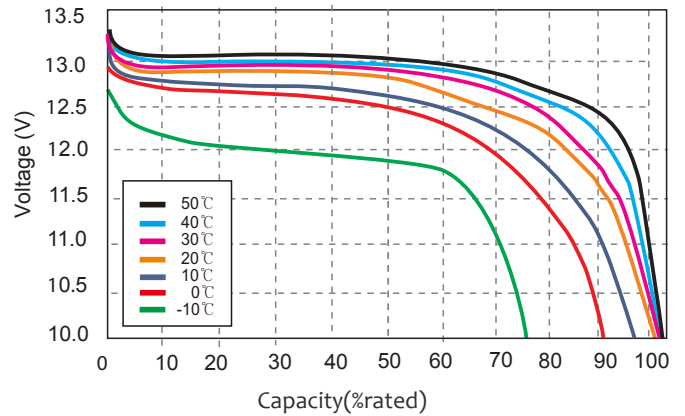
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristics (Data test from 4 Series Cell)

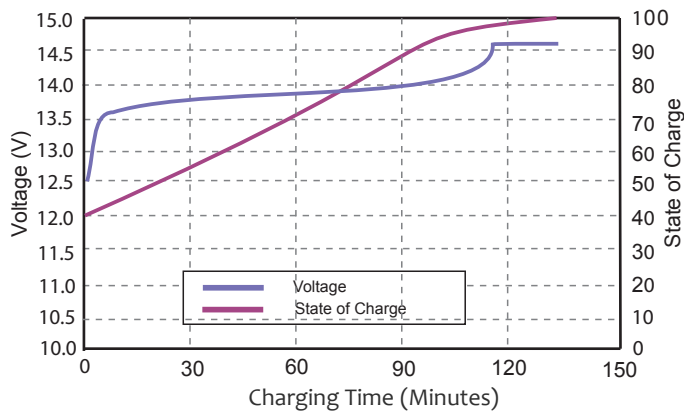
Different Rate Discharge Curve (25°C)



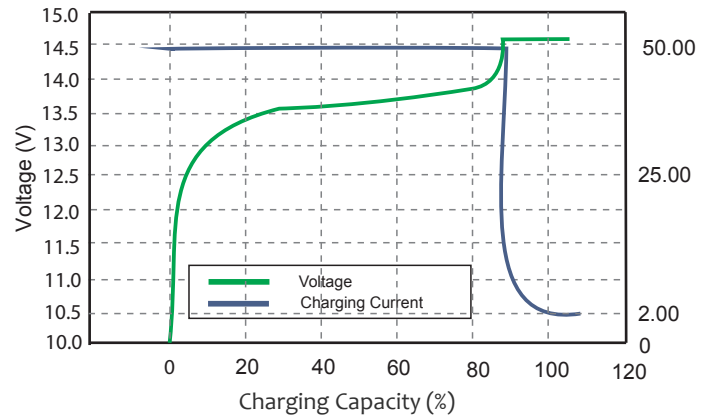
Different Temperature Discharge Curve At 0.5c



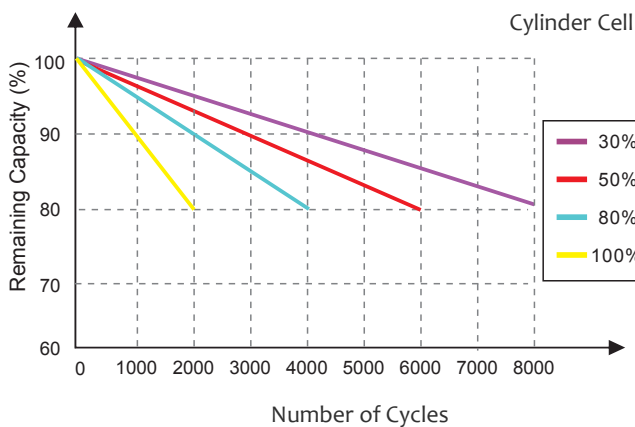
State Of Charge Curve At 0.5c (25°C)



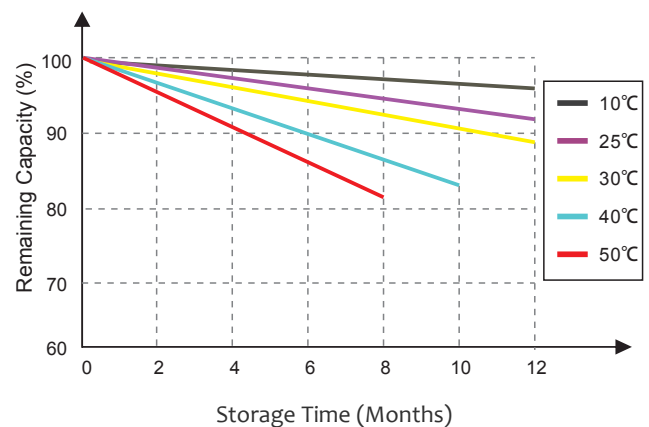
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



SAFETY WARNING : Use only within the allowed parameters. Do not short circuit or over-load the battery. Charge only using an approved charger designed specifically to charge this battery. Do not heat above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices or circuits. Do not use the battery if you suspect it may be faulty or damaged.

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