

LiFePO4 Lithium Battery

LFP Replace VRLA Battery
12.8V314Ah | 280Ah | 300Ah
3.6kWh | 3.8kWh | 4.0kWh
Storage Battery



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

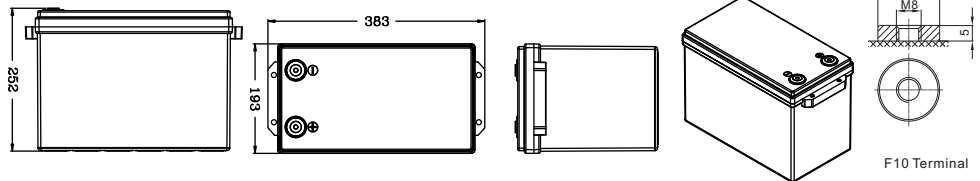
Deep
Cycle



Applications

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

Dimensions & Weight



Technical Specifications

- Length: 383±1mm Width: 193±1mm Height: 248±1mm Total Height: 252 ±1mm
- Weight: 25.5±0.1kgs

Electrical Characteristics	Nominal Voltage	12.8V		
	Nominal Capacity	280Ah	300Ah	314Ah
	Energy	3584Wh	3840Wh	4019Wh
	Terminal	M8		
	Cycle Life @80%DOD	> 6000cycles		> 8000cycles
	Months Self Discharge	<3%		
	Efficiency of Charge	100 % @0.2C		
	Efficiency of Discharge	96 ~99% @0.5C		
Standard Charge	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	90A		
	Max. Charge Current	100A		
	Charge Cut-off Voltage	14.6V ± 0.2		
Standard Discharge	Continuous Current	100A		
	Max continuous discharge current	100A		
	Discharge Cut-off Voltage	10V		
Environmental	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		
	Water Dust Resistance	IP21 (IP65 OPT)		
Mechanical	Cell & Method	Prismatic Cell, 4S1P		
	Plastic Case	ABS		
	Dimensions (in./mm.)	383*193*252mm/15.08*7.6*9.92Ins		
	Weight (lbs./kg.)	25.5kgs/56.21lbs	25.5kgs/56.21lbs	25.5kgs/56.21lbs
	Gravimetric specific energy	140.55WH/KG	140.55WH/KG	157.62WH/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.

Durable Lithium Battery use CSSUN

Copyright© 2025 CSSUN Energy Co., LTD

LiFePO4 Lithium Battery

LFP Replace VRLA Battery
12.8V314Ah | 280Ah | 300Ah
3.6kWh | 3.8kWh | 4.0kWh
Storage Battery

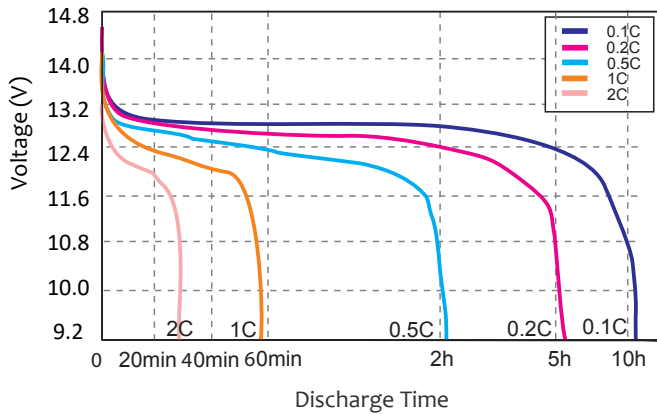


BMS Specifications

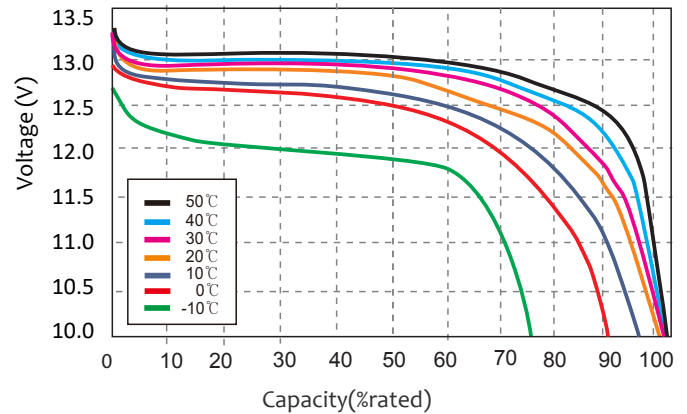
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristics (Data test from 4 Series Cell)

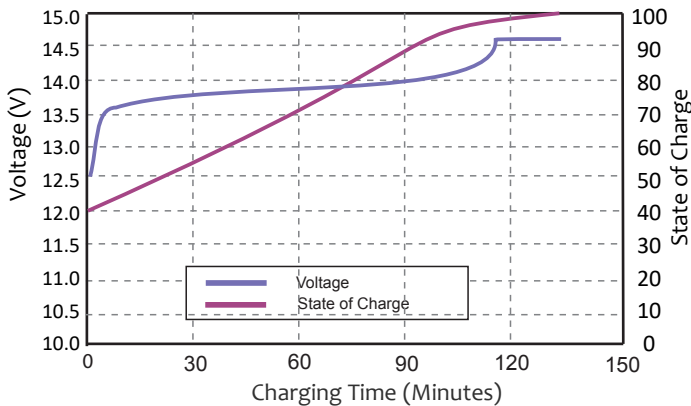
Different Rate Discharge Curve (25°C)



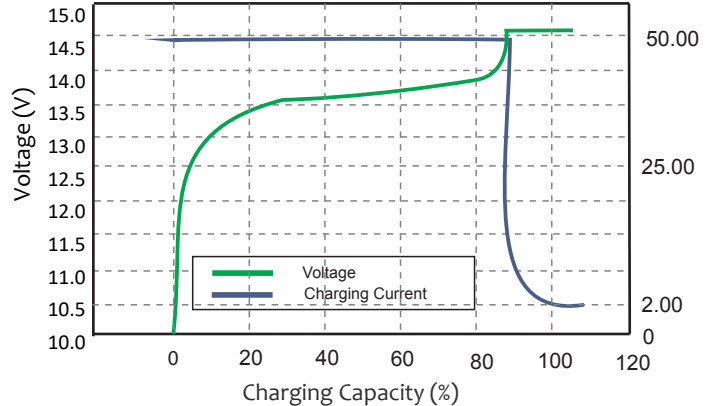
Different Temperature Discharge Curve At 0.5c



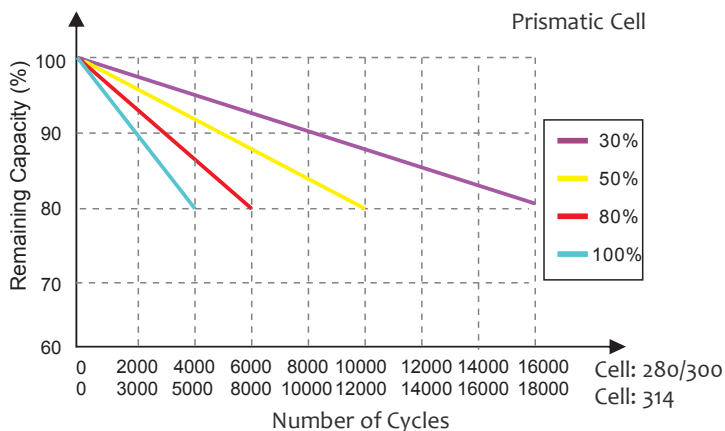
State Of Charge Curve At 0.5c (25°C)



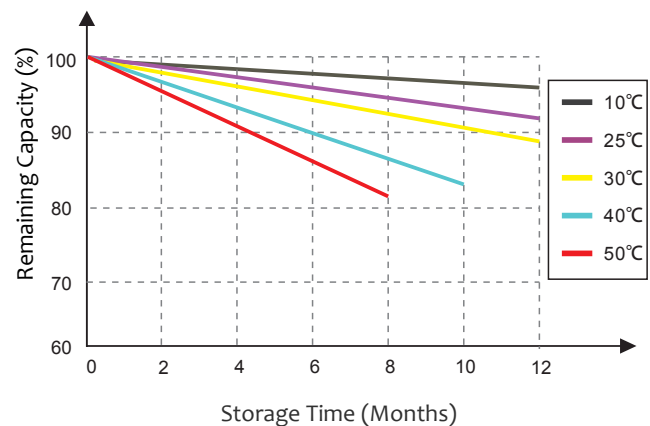
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 0.2c 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.

Add: Introduction Building, Xingdong Industry Park, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-29123661 email: sales@cssun.net , support@cssun.net
website: www.cssun.net

Durable Lithium Battery use CSSUN

Copyright© 2025 CSSUN Energy Co., LTD