

LFP Series Brief Introduce

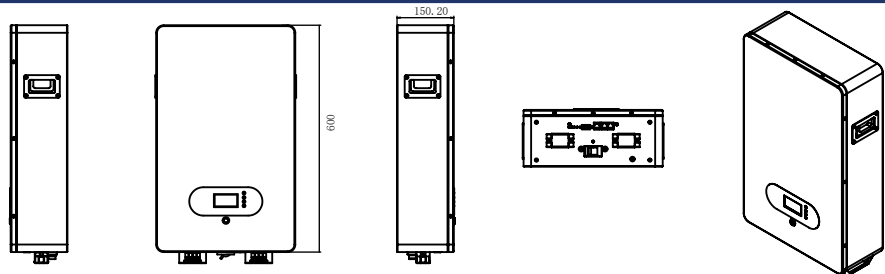
LFP Series rechargeable LiFePO₄ Battery Pack for Replace VRLA Battery are ideal applications to RVS, solar energy, boats, and power equipment. These lithium batteries offer a safe and lightweight solution, with higher efficiency, longer lifespan, and deep discharge capabilities compared to traditional 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
LifeLithium Iron
PhosphateDeep
Cycle

Applications

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

Dimensions & Weight



Length: 635±1mm Width: 370±1mm Height: 150±1mm | Weight: 48.0±0.1kgs

Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5120Wh
BMS with internal cell balancing	YES
Cycle Life	> 6000cycles 80%DOD
Months Self Discharge	< 3%
Efficiency of Charge	100%@0.2C
Efficiency of Discharge	96~99%@0.5C

Standard Charge

Charge Voltage	57.6V ± 0.2
Charge Mode	0.5C to 57.6V, then 57.6V, charge current to 0.02C(CC/CV)
Charge Current	50A
Max. Charge Current	100A
Charge Cut-off Voltage	57.6V ± 0.2

Standard Discharge

Continuous Current	50A
Max continuous discharge current	100A
Discharge Cut-off Voltage	43.2V ± 0.1

Environmental

Charge Temperature	0 °C to 45 °C (32F to 113F) @60 ± 25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60 ± 25% Relative Humidity
Storage Temperature	0 °C to 40 °C (32F to 104F) @60 ± 25% Relative Humidity
Water Dust Resistance	IP21

Mechanical

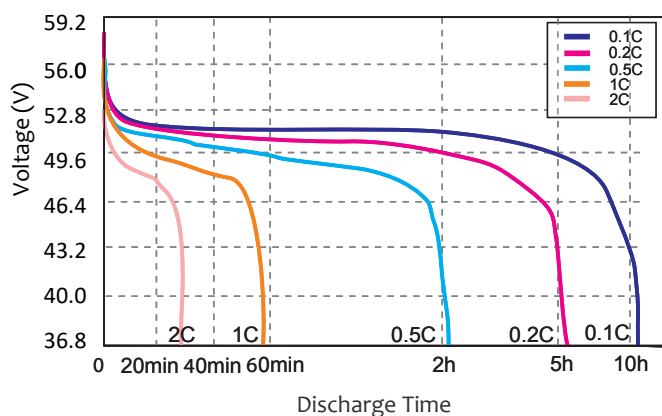
Cell & Method	Prismatic Cell, 16S1P
Case	Iron
Dimensions (in./mm.)	635*370*150mm/25.01*14.57*5.91Ins
Weight (lbs./kg.)	Approx: 48kgs/105.81lbs
Gravimetric specific energy	106.67WH/KG
Protocol (optional)	ModBus/CAN/RS485/RS232(OPT)
SOC (optional)	LCD

BMS Specifications

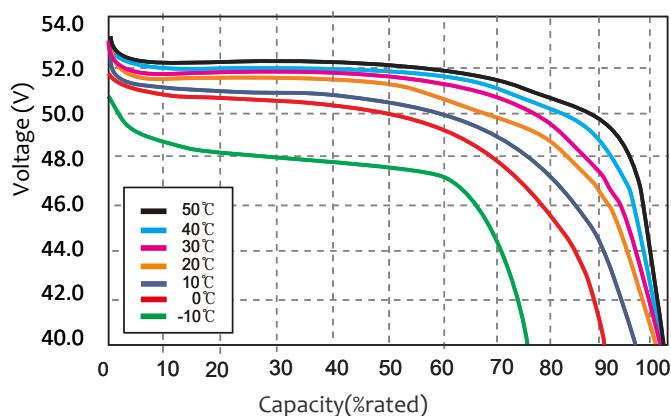
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Performance Characteristics (Data test from 16 Series Cell)

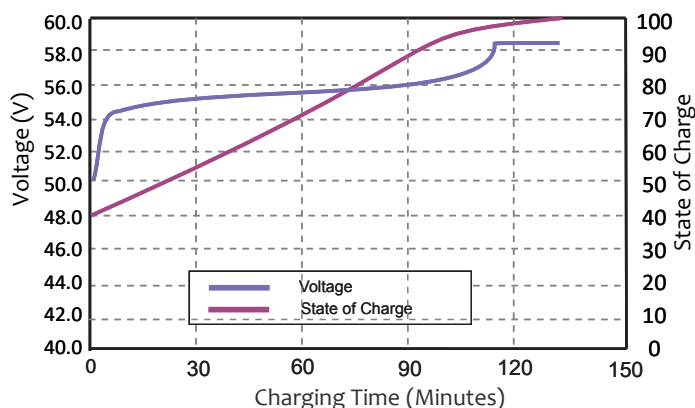
Different Rate Discharge Curve (25°C)



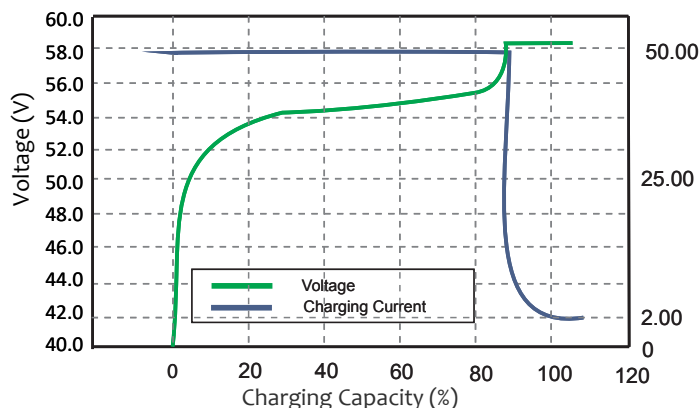
Different Temperature Discharge Curve At 0.5c



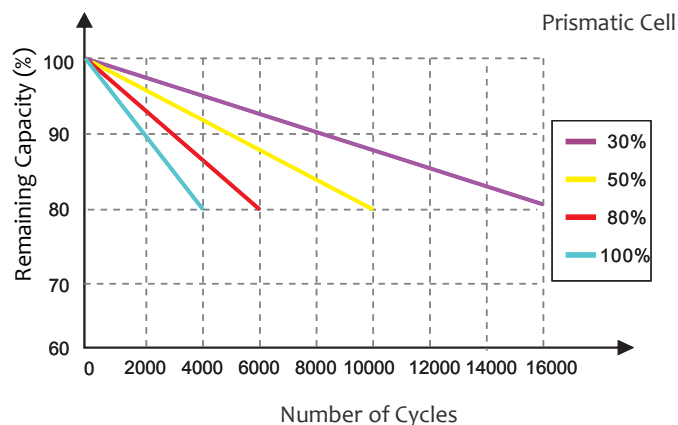
State Of Charge Curve At 0.5c (25°C)



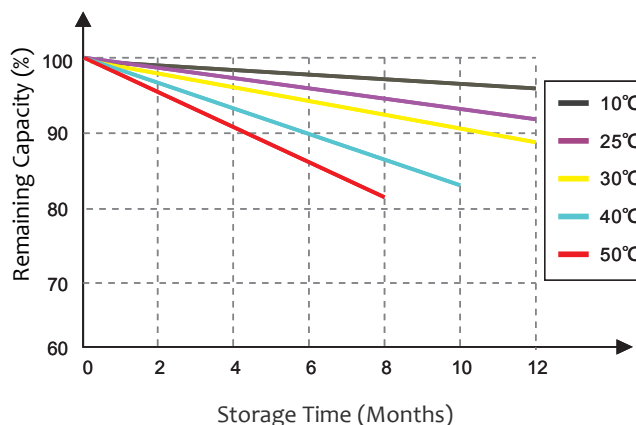
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



Note: All above information shall be changed without prior notice, We reserves the right to explain and update the latest information. Welcome inquiry us!

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.