

## POWER LITHIUM BATTERIES

### Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8V150AH-SL

12.8V150AH 1920Wh

#### Features of LiFePO4 Battery

##### Longer Cycle Life

LiFePO4 batteries have over 5 times the cycle life of SLA batteries.

##### High Power & Light weight

LiFePO4 batteries have twice the performance of SLA batteries while being half the weight.

##### Intelligent management control

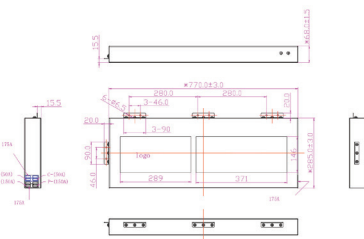
Power Lithium intelligent BMS monitors battery cells to ensure batteries work safely and perform at full potential.

##### Lower Self-discharge rate

Lower self-discharge rate mean batteries can be stored for longer when compared to SLA.



#### Physical Dimension



#### Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV, solar light

#### Electrical Characteristics

Chemistry	LiFePO4
Nominal Voltage	12.8V
Nominal Capacity	150Ah (C5,25°C)
Energy	1920Wh
Internal Resistance	≤18 mΩ
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)
Charger Current	75A
Max. Charge Current	150A
Charge Cut-off Voltage	15.6V±0.2V

#### Standard Discharge

Rated Discharge Current	75A
Max Discharge Current	150A
Max. Pulse Current	450A(<3s)
Discharge Cut-off Voltage	10V
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	IP65

#### Mechanical

BMS	4 Series / 4 Parallel
Case	Commercial Quality Cold Rolled Steel (SPCC)
Dimensions (in./mm.)	770 x 285 x 68 mm
Weight (lbs./kg.)	22.7 kg
Terminal	Standard Connectors

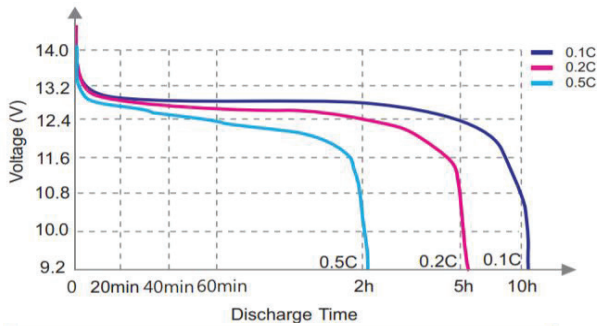
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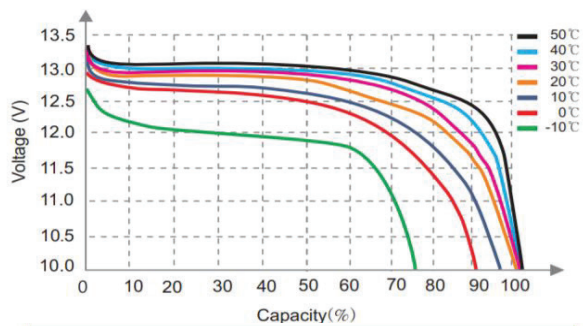
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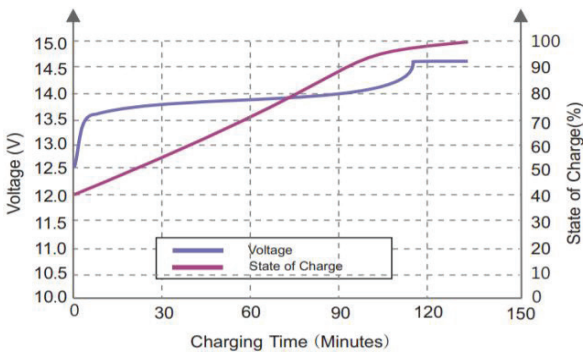
Different Rate Discharge Curve(25°C)



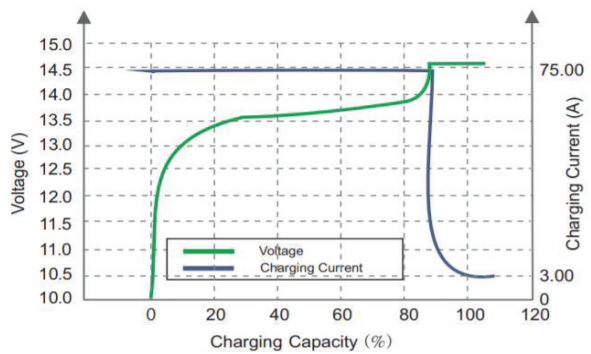
Different Temperature Discharge Curve(0.5C)



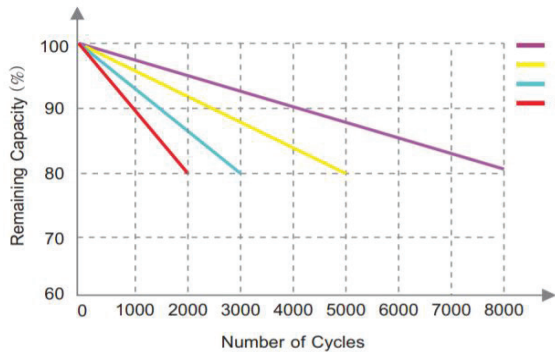
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve

