

LifePO4 LITHIUM ION

POWER LITHIUM BATTERIES

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8V150AH-SL

12.8V150AH 1920Wh

Features of LiFePO4 Battery

Longer Cycle Life

LiFeP04 batteries have over 5 times the cycle life of SLA batteries.

High Power & Light weight

LiFeP04 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

100 ED ED		● 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 (32Fto 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 (32Fto 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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Different Rate Discharge Curve(25℃) **Different Temperature Discharge Curve(0.5C)** 13.5 50 °C 40 °C 30 °C 10 °C -10 °C 14.0 13.0 13.2 12.5 Voltage (V) Voltage (V) 12.4 12.0 11.6 11.5 10.8 11.0 10.0 10.5 0.10 10.0 0 20min 40min 60min 5h 10h 40 50 70 90 100 Discharge Time Capacity(%) Charging Characteristics(0.5C, 25℃) State of Charge Curve(0.5C, 25℃) 15.0 100 15.0 14.5 14.5 75.00 14.0 80 14.0 Charging Current (A) 13.5 State of Charge(%) 13.5 70 Voltage (V) 13.0 60 Voltage (V) 13.0 12.5 50 12.5 40 12.0 12.0 30 11.5 11.5 20 11.0 11.0 10.5 10 10.5 3.00 10.0 10.0 90 Charging Time (Minutes) Charging Capacity (%) Different DOD Discharge Cycle Life Curve(0.5C) **Different Temperature Self Discharge Curve** 100 100 Remaining Capacity (%) Remaining Capacity (%) 30°C 90 90 80 80 70 60 1000 2000 3000 4000 5000 6000 7000 8000 2 12 Number of Cycles Storage Time(Months)













