

12.8V-150Ah Lithium Iron Phosphate (LiFePO4) Battery

Features of LiFePO4 Battery

- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power**: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range: -20°C~60°C.
- Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- Increased Flexibility: Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Specification

User States Pack 12.00 LifePOA Battery Pack 150Ab (1900) 150Ab (1900)	∕
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Physical Dimension









	Nominal Voltage	12.8V
	Nominal Capacity	150Ah
	Energy	1920Wh
Electrical	Internal Resistance	≪ 40m Ω
Characteristics	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @100A
Standard Charge	Charge Voltage	$14.6\pm0.2V$
	Charge Mode	0.2C to 14. 6V, then 14. 6V, charge current to 0.02C (CC/CV)
	Charger Current	30A
	Max. Charge Current	75A
	Charge Cut-off Voltage	$15.6V \pm 0.2V$
Standard Discharge	Continuous Current	30A
	Max. Pulse Current	100A
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 $^\circ \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
	Discharge Temperature	-20 $^\circ \!\!\! \mathbb{C}$ to 60 $^\circ \!\!\! \mathbb{C}$ (-4F to 140F) @60 \pm 25% Relative Humidity
	Storage Temperature	0 $^\circ \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
	Water Dust Resistance	IP65
Mechanical	Cell & Method	32700 4S25P
	Plastic Case	ABS
	Dimensions (in./mm.)	485*170*214mm (19.09"*6.69"*8.43")
	Weight (lbs./kg.)	19.5Kg
	Terminal	M8



) HIMAX 12.8V-150Ah Lithium Iron Phosphate (LiFePO4) Battery

Different Rate Discharge Curve





State of Charge Curve

State of Charge Curve @0.5C 25 °C



Cycle Life Curve



Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



Charging Characteristics

Charging Characteristics @0.5C 25°C



Self Discharge Characteristics Curve



Different Temperature Self Discharge Curve

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