

Features of LiFePO4 Battery

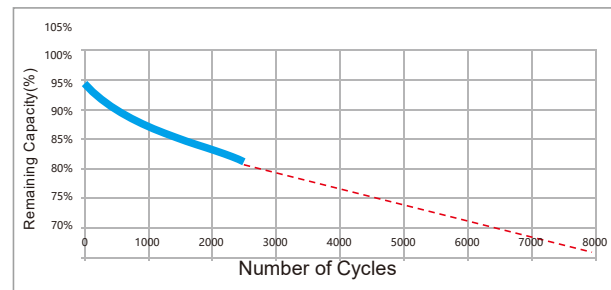
- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement 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.



Application

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

Cycle Life Curve

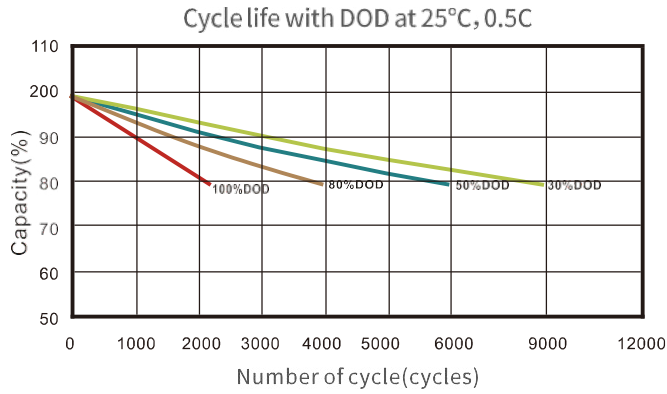


Specification

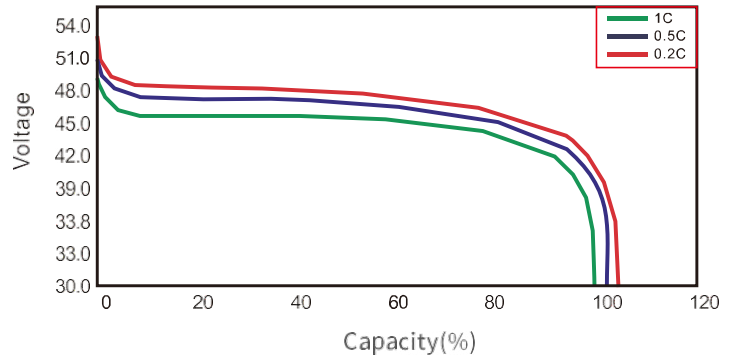
Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	50Ah (C ₅ , 25°C)
	Energy	2560Wh
	Internal Resistance	< 50m Ω
	Cycle Life	>2500 cycles @ 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4V
	Charge Mode	0.2C to 58.4V, then 58.4V charge current 0.02C(CC/CV)
	Charge current	10A
	Max charge current	50A
	Charge cut off Voltage	<59.2V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	55A(<3s)
	Dis-Charge cut off Voltage	40V
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
Mechanical	Cell & Method	16S1P
	Plastic Case	
	Dimensions (in./mm.)	500*360*120 ±2mm
	Weight (lbs./kg.)	25.5Kg
	Terminal	180A terminal
	Protocol (optional)	RS485/CAN
	BMS	16S50A

Model Performance Diagrams

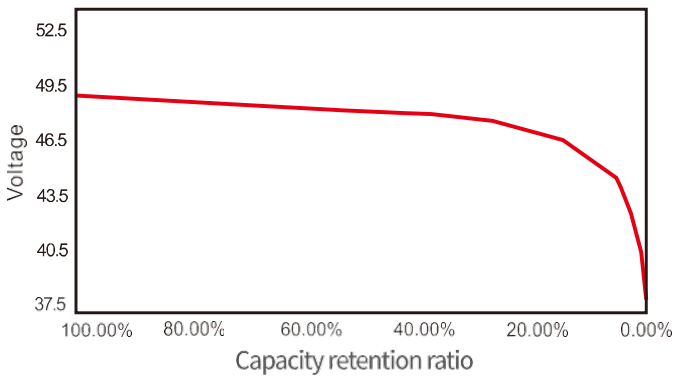
Number of Cycles Vs. DOD



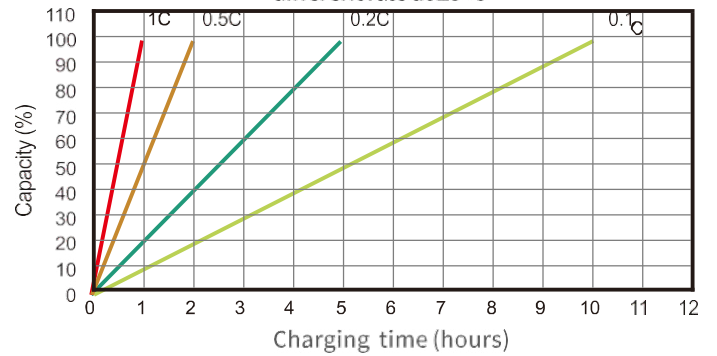
Discharge Performance at R.T.



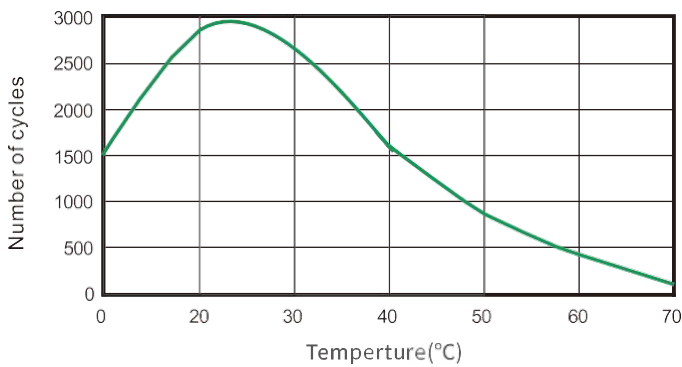
Battery Capacity (C) VS. Open Circuit Voltage (OCV)



Battery Capacity Vs. Charging Time



Cycle Life in Relation to Temperature



Temperature Effects on Capacity

