



LITHIUM IRON PHOSPHATE

(LiFePo4) Battery LFP51.2-100 (51.2V 100 AH)

Features of LiFePO4 Battery

- **Longer Cycle Life:** This STI golf cart battery offers many times the cycle life of a typical lead-acid battery, with enhanced performance, much lower total cost of ownership, longer lifespan, and no maintenance.
- **Lightweight:** It weighs only about 40% of a comparable lead-acid battery and can be seamlessly used as a 'drop-in' replacement.
- **High Capacity:** It delivers twice the CAPACITY of a lead-acid battery, even at high discharge rates, while maintaining a high energy capacity.
- **Wider Temperature Range:** Operates efficiently within a temperature range of -20°C to 60°C.
- **Enhanced Safety:** Our Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging, or short circuit situations.



51.2 V 100 Ah

Application



Electric vehicles
electric mobility



Solar/wind energy
Storage system



UPS, backup
power



Medical
equipment

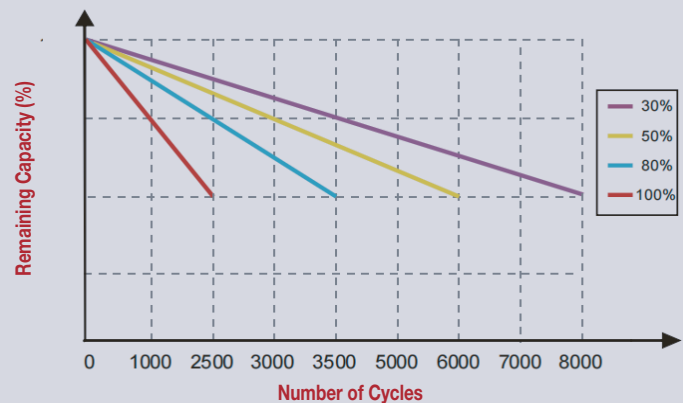


Telecommunication



Lighting

Cycle life vs Depth of Discharge (DOD)



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Specification

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	100Ah (C ₅ ,25,25°C)
	Energy	5120Wh
	Internal Resistance	≤ 200mΩ
	Cycle Life	>2500 cycles @100% DOD; >3500 cycles @80% DOD
Standard Charge	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of DisCharge	96~99% @1C
	Charge Voltage	58.4V
	Charge Mode	0.2C to 58.4V, then 58.4, charge current 0.02C (CC/CV)
	Charge Current	≤ 50A (Suggested)
	Max. Charge Current	100A
	Charge Cut-off Voltage	59.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	300A (<5s)
	Discharge 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	-20 °C to 60 °C (-4F to 140F) @60 ± 25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	prismatic
	Case	plastic case
	Dimensions (in./mm.)	640*245*220 mm
	Weight (lbs./kg.)	45kg
	Terminal	100A through terminal
	Protocol (optional)	
	BMS	16S 100A

