



# Lithium Iron Phosphate (LiFePO4) Battery

## LFP- (51.2V 100AH)

### 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℃~60℃.
- **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.

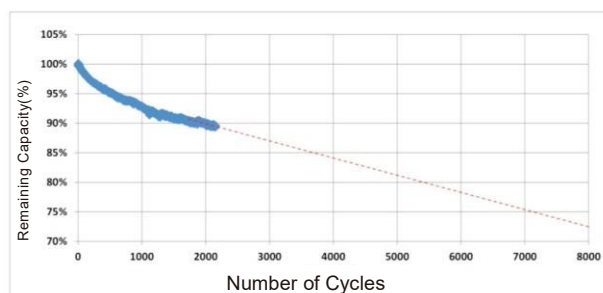


### Application

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

### Specification

### Cycle Life Curve



Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	100Ah (C <sub>5</sub> ,25℃)
	Energy	5120.00Wh
	Internal Resistance	≤1000mΩ
	Cycle Life	> 6000
	Months Self Discharge	< 3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4V ± 1.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
	Charge Cut Off Voltage	58.4V ± 1.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	200A(<3s)
	Discharge Cut Off Voltage	40V ± 1.2V
Environmental	Charge Temperature	0℃ to 55℃ (32F to 131F) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0℃ to 40℃ (32F to 104F) @60±25% Relative Humidity
Mechanical	Cell & Method	3.2V100AH-16S1P
	Plastic Case	Powerwall type
	Dimensions (in./mm.)	520*175*400mm
	Weight (lbs./kg.)	42Kg
	Terminal	100A through terminal
	Protocol (optional)	RS485/RS232
	SOC (optional)	Yes