Lithium Iron Phosphate (LiFePO4) Battery

Specifications

	Nominal Voltage	51.2V
	Nominal Capacity	150Ah (0.2C,25C)
	Energy	7680Wh
Electrical	Internal Resistance	≤200m Ω
Characteristics	CycleLife	>4000 cycles@0.2C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Charge	96~99% @100A
Standard Charge	Limited charge voltage	58.4±0.2V (Monomer limited charge voltage: 3.65V)
	Standard charge current	20A
	Maximum charge current	100A
	Standard discharge current	20A
Standard Discharge	Maximum discharge current	100A
	Discharge cut-off voltage	40V
Operating Temperature	Charge Temperature	0 C to 45 C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 C to 60 C (-4Fto 140F) @60±25% Relative Humidity
	Less than 1 month	20C~60C, 85%RHMax
Storage Environment	Less than 3 months	0C~35C,85%RHMax
	Storage proposal	15C~35C,75%RHMax
Mechanical	Cell &Method	3.2V50AH-16S3P
	Case	Metal case
	Dimensions (in./mm.)	572*480*145mm
	Weight (kg.)	≦60Kg
	Cable	cross-sections above 16 mm2
	Protocol (optional)	RS485/RS232/CAN
	BMS	16S100A
	Quality Warranty	5 years





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.
- \blacksquare 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.