

LFP 48V100AH LIFEPO4 BATTERY

Model: Newbatt48100LFP

LFP Series Lithium-ion Battery is an ideal replacement for traditional lead acid battery utilizing advanced LiFePO4 technology and integrated BMS with the benefits of long cycle life, light in weight, safety and excellent high and low temperature performance. LFP Series Lithium-ion Battery is widely used in energy storage, UPS, golf cart and other lead acid battery replacement.

**Superior Character**

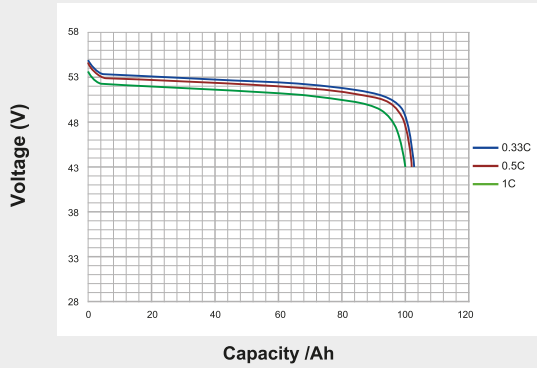
- Super Long Service Life
- High Safety Ensured by Smart BMS
- Fast Charge and High Rate Discharge Power
- Low Total Cost of Ownership (TCO)
- High Energy Density by Adopting LFP Cells
- High Cycle Round Trip Efficiency (RTE)
- Wide Working Temperature Range
- Maintenance Free

**General Specification**

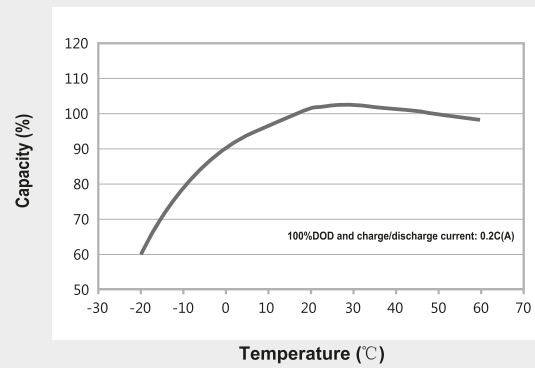
Electrical Characteristics	
Nominal Voltage	51.2V
Nominal Capacity@0.2C	100Ah
Energy	5120Wh
Internal Resistance	≤40Ω
Cycle Life	≥3000 Cycles
Months Self Discharge	≤3% per month at 25℃
Mechanical	
Cell & Method	Prismatic LiFePO4 Battery Cells
Plastic Case	Metal
Dimension(L × W × H × TH)	Customized-General-680*485*180mm
Weight	Approx. 55Kg
Terminal	/
Standard Charge	
Charge Voltage	57.6V
Charge Mode(CC/CV)	At 0℃~45℃ temperature, charged to 57.6V at a constant current of 0.2C, and then charged continuously with constant voltage of 57.6V until the current was not more than 0.02C.
Charge Current	20A
Max. Charge Current	50A
Standard Discharge	
Discharge Current	50A
Max. Continuous Current	100A
Max. Pulse Current	300A(<1S)
Discharge Cut-off Voltage	40.0V
Operating Environment	
Charge Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
Discharge Temperature	-20℃ to 60℃(-4℉ to 140℉) @60±25% Relative Humidity
Storage Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
Water Dust Resistance	IP55

Characteristic Curves

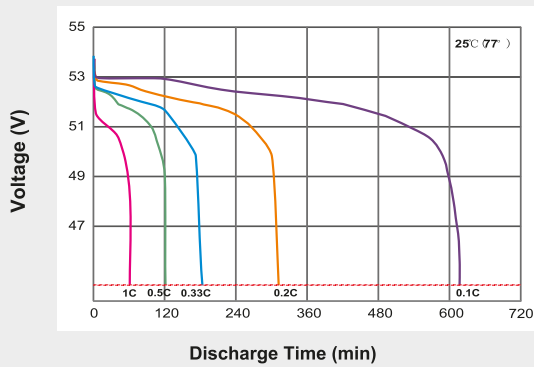
Discharge Capacity in relation to Discharge Rate



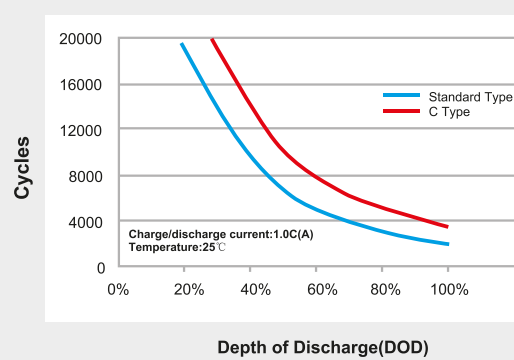
Temperature Effect in relation to Battery Capacity



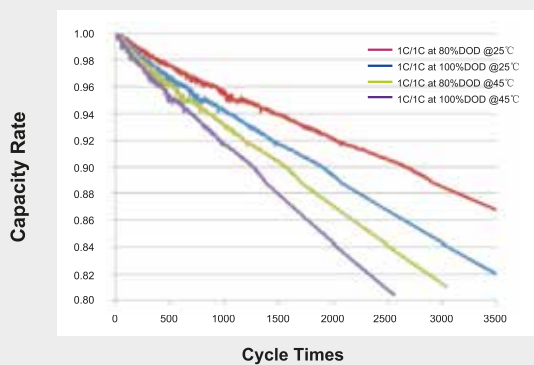
Discharge Time in relation to Discharge Rate



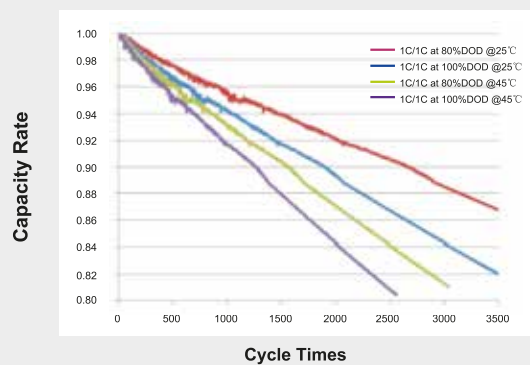
Depth of Discharge in relation to Cycle Life











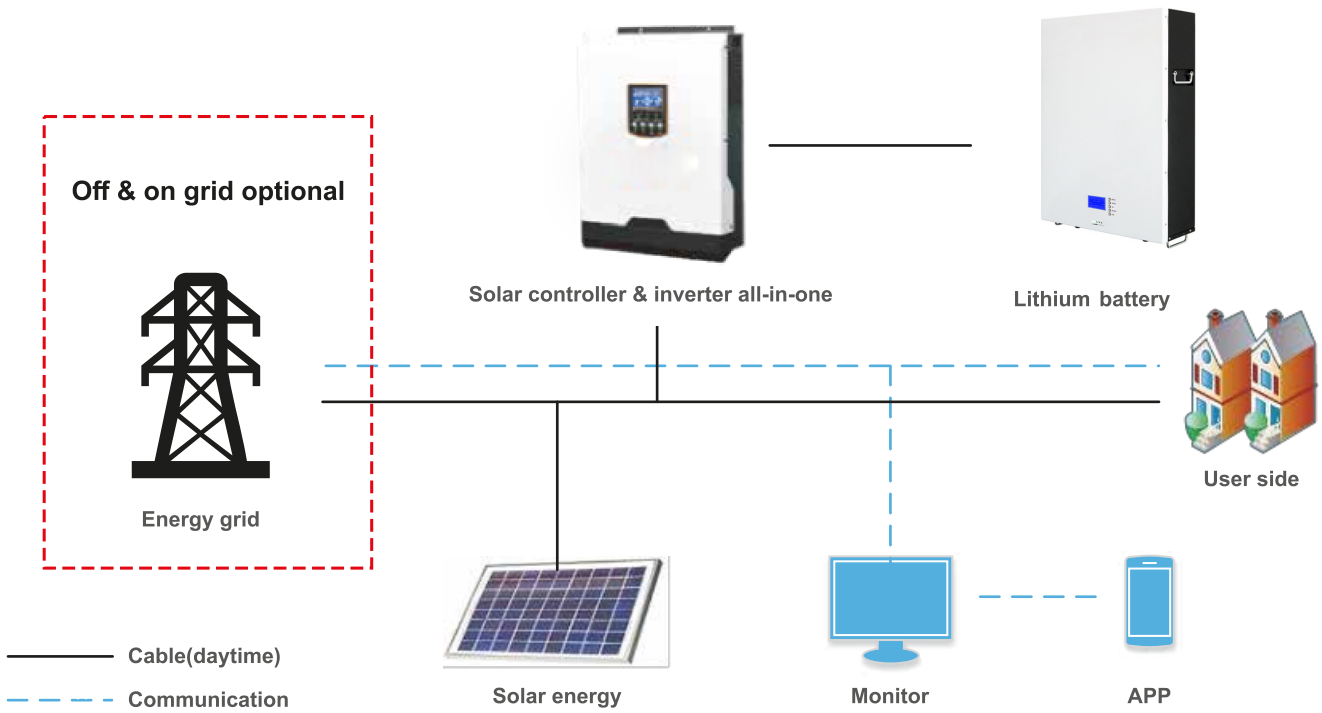
Cycle Curves at different DOD & Temp of C Type



Cycle Curves at different DOD & Temp of C Type



			
verload protection	Temperature protection	Short circuit protection	Batteries to protect
			
The overcharge protection	Put protection	Over current protection	Over voltage protectionO



Applications

- Oil and electricity hybrid energy storage system
- Grid frequency adjustment energy storage system
- New energy communication base station, Core computer room, IDC ,UPS
- New energy generation (solar, wind, PV/wind hybrid) access to energy storage system
- Smart grid, micro-grid system
- Mobile container storage system
- Other energy Storage System
- Peak load shifting energy storage system
- Load tracking energy storage system



Standard Compliance



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