

Lithium Iron Phosphate (LiFePO4) Battery

LAR12100-G31-R32

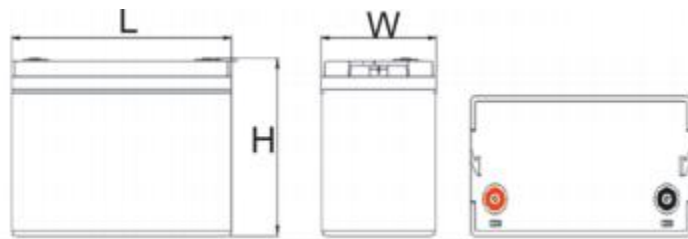
Features

- ✦ Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions.
- ✦ Built-in automatic protection for over-charge, over discharge, over current and over temperature.
- ✦ Free of maintenance .
- ✦ Internal cell balancing.
- ✦ Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.
- ✦ Replacement for lead-acid battery.
- ✦ Wider temperature range:-20℃~60℃.
- ✦ Support for Series application expansion (up to 51.2V) or four in parallel.



Application

- ✦ UPS
- ✦ Solar & Wind Power System
- ✦ Golf Cart
- ✦ Electric Vehicle , E-bike, E-rickshaw etc.
- ✦ Lighting



General Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah@0.2C
	Energy	1280Wh
	Cycle Life	2000 Cycles @ 20A Charging/Discharging ,Until 70% Capacity
	Self Discharge	≤3.5% per month at 25℃
Standard Charging	Max. Charging Voltage	14.0~14.4V
	Charging Mode	At 0℃~45℃ temperature, charged to 14.4V at a constant current of 20A, and then,changed continuously with constant voltage of 14.4V until the current was not more than 2A
	Charging Current	20A
	Max.Charging Current	50A
Standard Discharging	Discharging Current	20A
	Max. Continuous Current	100A
	Discharging Cut-off Voltage	10.0V
Operating Condition	Charge Temperature	0℃ to 45℃(32°F to 113°F) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃(-4°F to 140°F) @60±25% Relative Humidity
	Storage Temperature	0℃ to 45℃(32°F to 113°F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Structure	Cell & Format	1FR32700 N60&4S17P
	Casing	Plastic
	Dimension(L*W*H*TH)	328×172×215/220±2mm
	Weight	Approx. 13.2kg±5%
	Terminal	M8

Dongguan LongTTech Company Ltd.

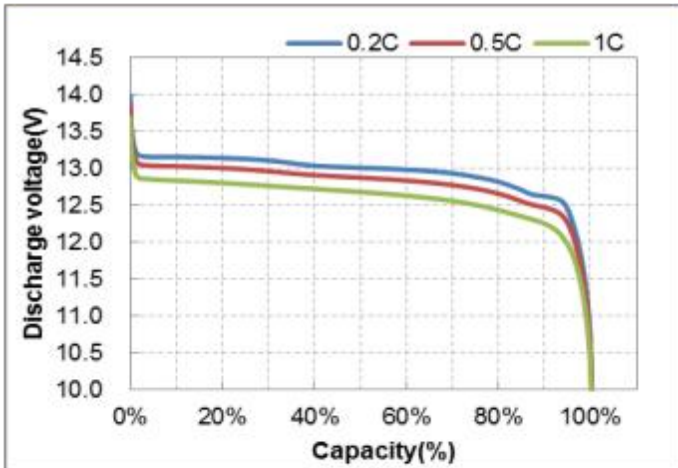
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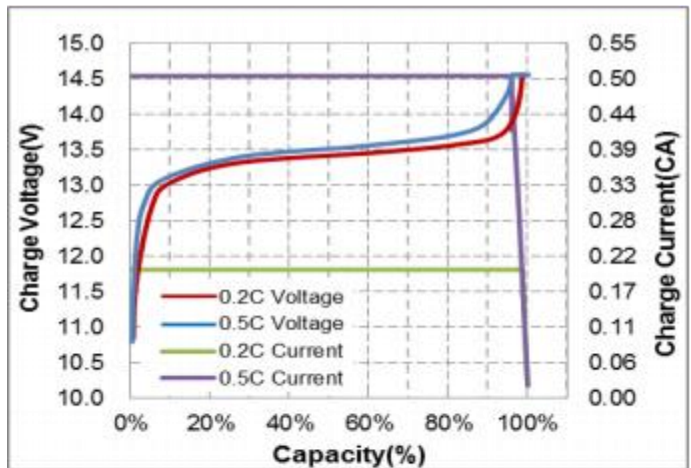
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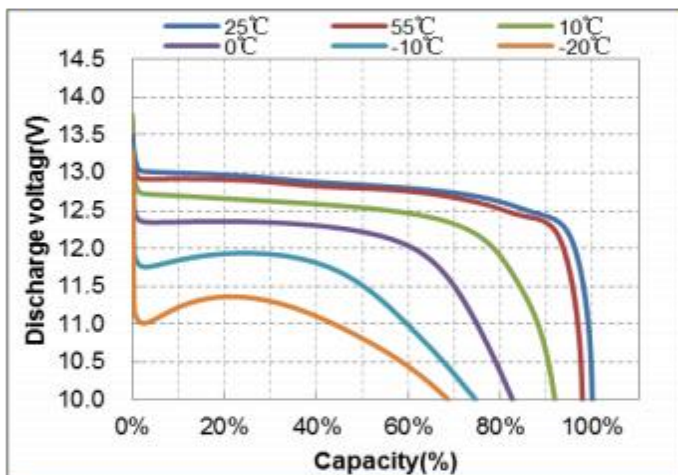
Different Rate Discharge Curve @25°C



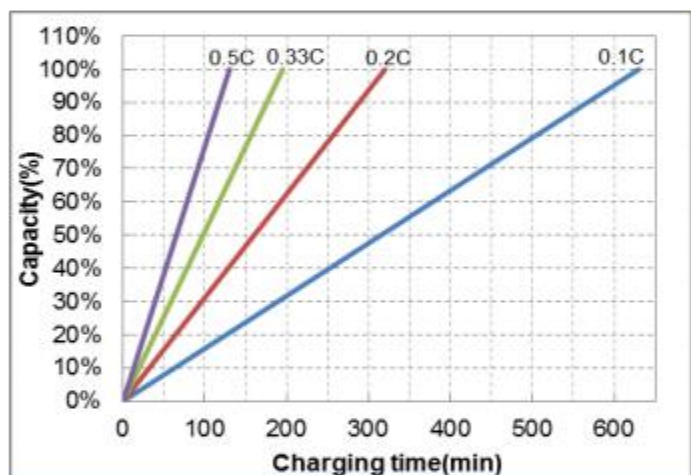
Charge Characteristics of capacity-voltage@0.2C&0.5C, 25°C



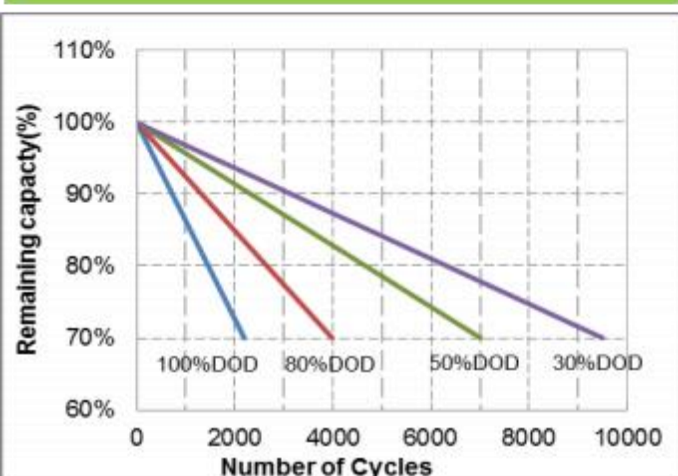
Different Temperature Discharge Curve @0.5C



Charge Characteristics of time-voltage@ 25°C



Different DOD Discharge Cycle Life Curve @0.2C,25°C



Open circuit voltage VS SOC%@25°C

