



Lithium Iron Phosphate (LiFePO4) Battery

LAR1254-G22NF-R32

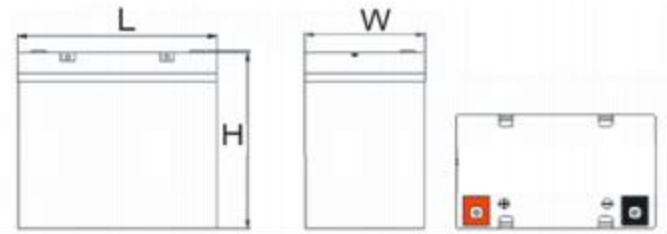
Features

- ✧ 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: -20C~60C.
- ✧ 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



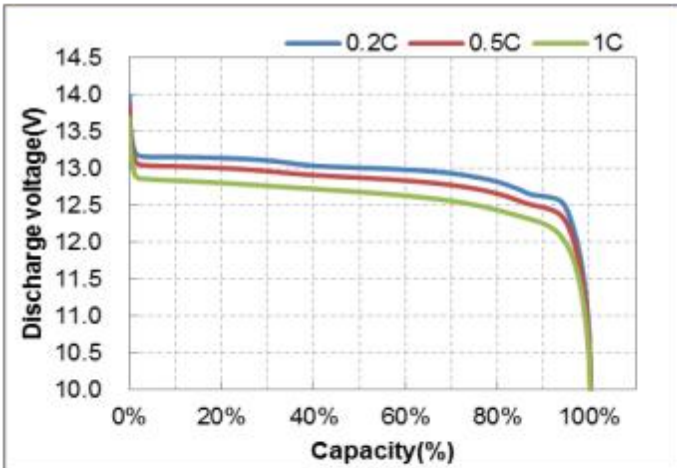
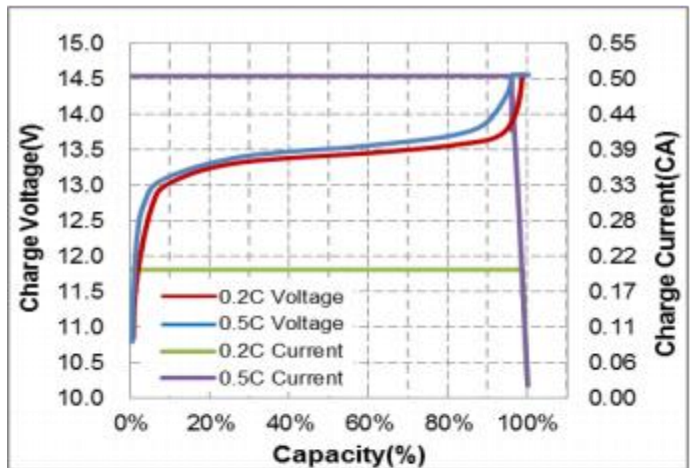
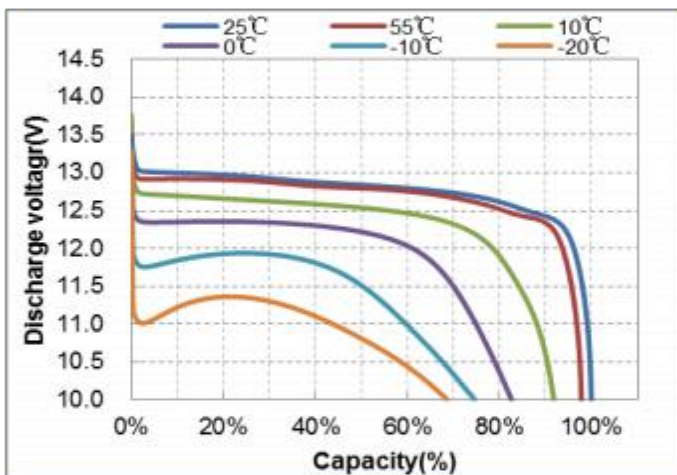
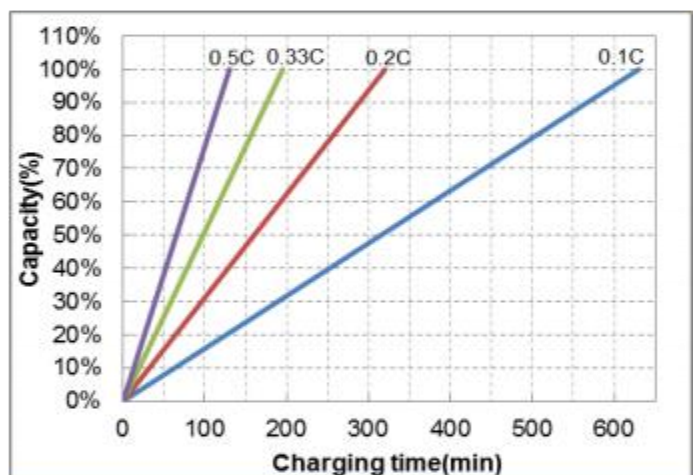
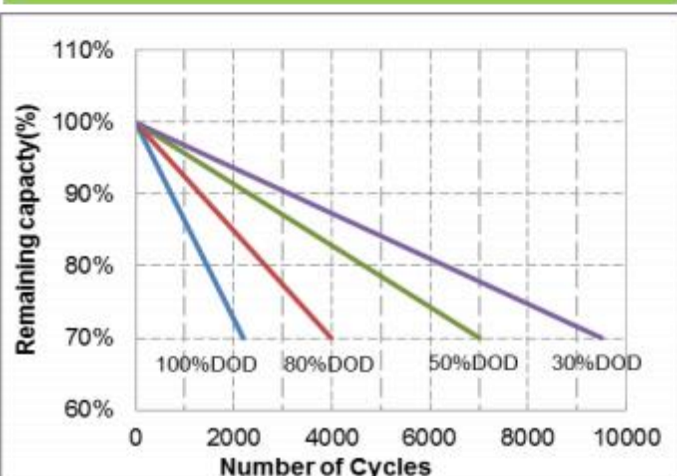
General Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	54Ah@0.2C
	Energy	691.2Wh
	Cycle Life	2000 Cycles @ 10A Charging/Discharging ,Until 70% Capacity
	Self Discharge	≤3.5% per month at 25C
Standard Charging	Max. Charging Voltage	14.0~14.4V
	Charging Mode	At 0C~45C temperature, charged to 14.4V at a constant current of 10A, and then,changed continuously with constant voltage of 14.4V until the current was not more than 1A
	Charging Current	10A
	Max.Charging Current	27A
Standard Discharging	Discharging Current	10A
	Max. Continuous Current	54A
	Discharging Cut-off Voltage	10.0V
Operating Condition	Charge Temperature	0C to 45C(32°F to 113°F) @60±25% Relative Humidity
	Discharge Temperature	-20C to 60C(-4°F to 140°F) @60±25% Relative Humidity
	Storage Temperature	0C to 45C(32°F to 113°F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Structure	Cell & Format	IFR32700 N60&4S9P
	Casing	Plastic
	Dimension(L*W*H*TH)	229×138×215/220 ±2mm
	Weight	Approx. 7.0kg±5%
	Terminal	M6

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Lithium Iron Phosphate (LiFePO₄) Battery
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Different Rate Discharge Curve @25C

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

Different Temperature Discharge Curve @0.5C

Charge Characteristics of time-voltage@ 25C

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

Open circuit voltage VS SOC%@25C
