LFP12.8-9US (12,8V 9Ah)

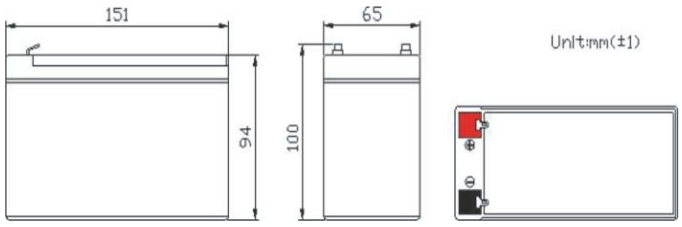
Lithium Iron Phosphate (LiFePO4) Battery

Features

- Using the technology ofl ithium 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
- Maintenance free
- Internal cell balancing
- Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.
- Can be charged using most standard lead-acid charges (set)
- Wider temperature range:-20 °~60°c

Application

- UPS



General Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	9Ah@0.2C
	Energy	115.2Wh
	Internal Resistance	80≤mΩ
	Cycle Life	>2000 Cycles @ 0.3C Charge/Discharge at 80%DOD,End of Life 60% Capacity.
	Months Self Discharge	≤3.5% per month at 25℃
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode （CC/CV）	At 0℃~45℃ temperature, charged to 14.6V at a constant current of 0.2C5A, and then,changed continuously with constant voltage of 14.6V until the current was not more than 0.02C5A.
	Charger Current	1.8A
	Max.Charge Current	4.5A
Standard Discharge	Discharge Current	1.8A
	Max. Continuous Current	27A
	Max.Pulse Current	90A(<3S）
	Disxcharge Cut-off Voltage	10.0V
Environmental	Charge Temperature	0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity
	Disxcharge 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
Mechanical	Cell & Method	IFR26650 N30,4S3P
	Plastic Case	ABS
	Dimension(L*W*H*TH)	151*65*94*100mm
	Weight	Approx. 1.34Kg
	Terminal	F2

MERLION

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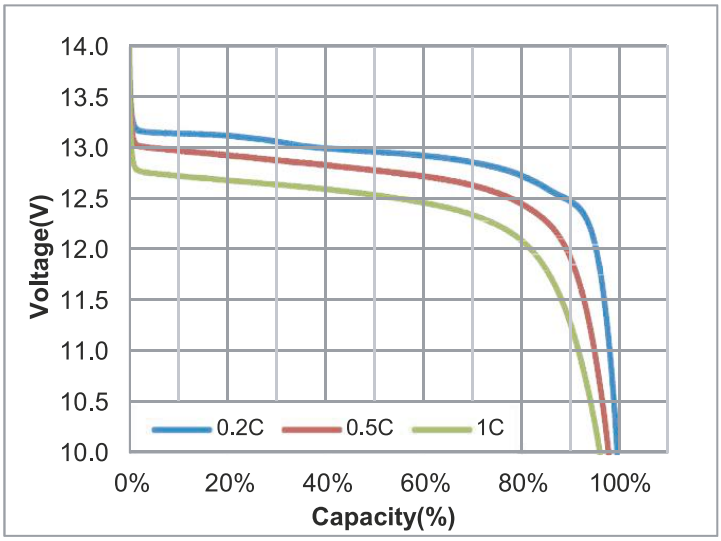
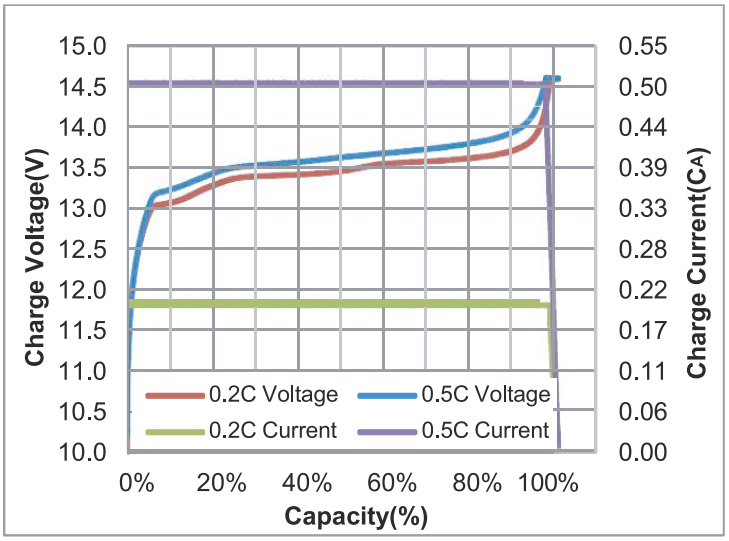
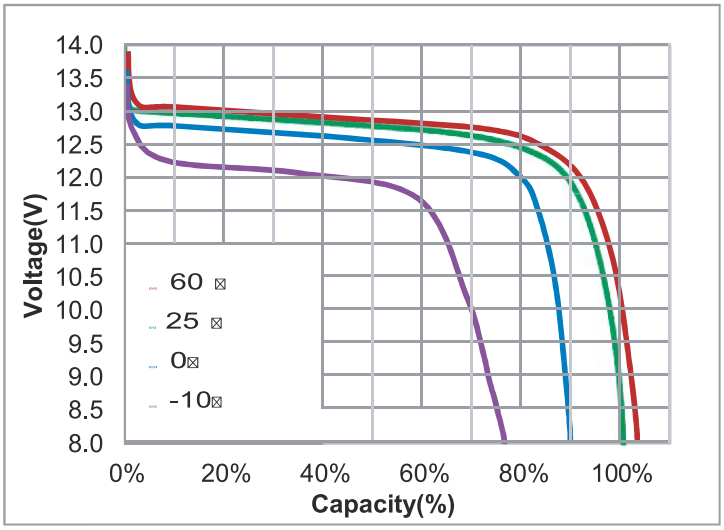
Different Rate Discharge Curve @ 25℃



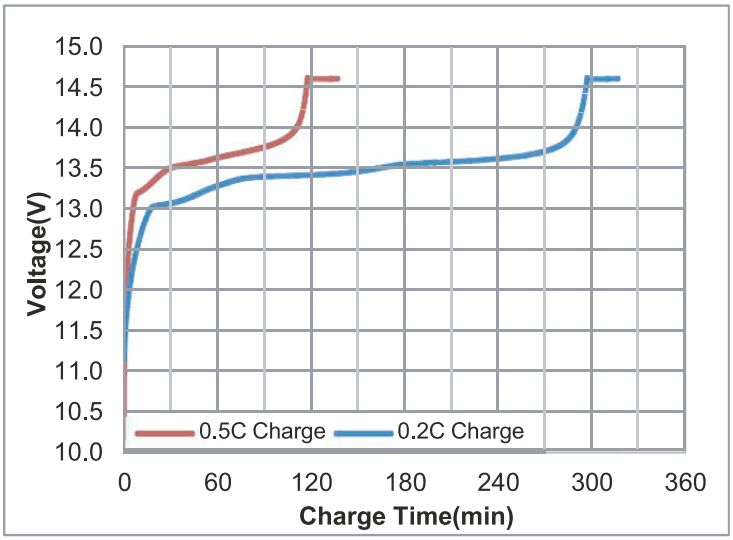
Charge Characteristics @0.2C&0.5C, 25℃



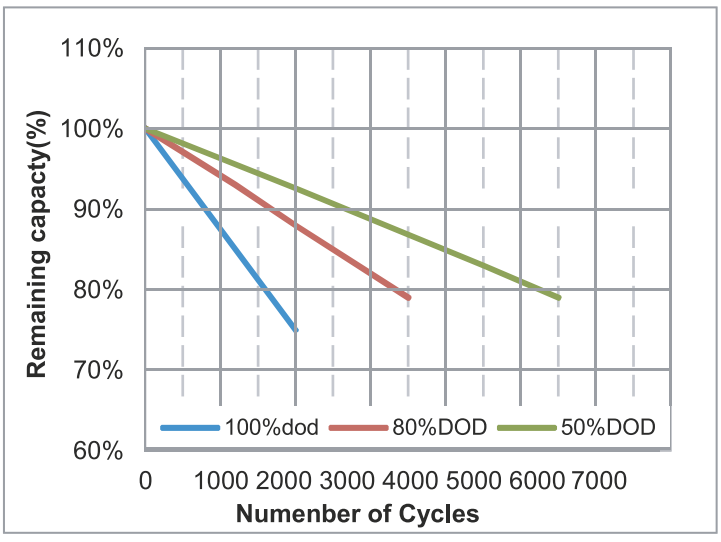
Different Temperature Discharge Curve @0.5C, 25℃



Charge Characteristics @0.2C&0.5C, 25℃



Different DOD Discharge Cycle Life Curve@0.5C, 25



Open circuit voltage VS SOC%

