

General features & applications for MPLFP Series (LiFePO4 battery)

- * Safe technology.
Communication of monitored data via inside BMS.
- * Lighter weight.
About less 1/2 of the weight to equivalent lead acid battery.
- * Environmental friendly.
Neither contain any toxic heavy metals (for exmples lead , Cadmium),nor corrosive acids.
- * Maintenance-free operation;lower self-discharge.

- * Longer cycle life;Higher power.
At normal condition,thousands of cycles @ 100% DOD.
- * Excellent cycle performance and lower total cost of ownership.
- * Wide operating temperature range (-20°C~55°C).
- * LiFePO4 battery is customizable.
- * Main applications:



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MPLFP6.4-4.5 (6.4V4.5Ah)

Battery Specifications

Nominal Voltage		6.4V
Rated Capacity		4.5Ah
Rated Energy		28.8Wh
Dimensions	Total Height	106mm (4.17inches)
	Height	101mm (3.98inches)
	Width	47mm (1.85inches)
	Length	70mm (2.76nches)
Weight Approx		0.5Kg (1.1lbs)
Terminal type / Torque		T2
Outer case's material		ABS
BMS build-in		Yes
LCD Screen /Bluetooth/heating function		Optional
Max in Parallel		4 PCS
Max in Series		4 PCS

Battery Characteristics

Normal character (at 25°C)	Operation voltage	5.4V~7.2V
	Monthly self-discharge	<3%
	All Efficiency-round trip	>98%
Operating Temperature Range	Cycle life(80%.DOD)	5000 cycles @0.2C
	Charge	0°C~55°C (32°F~131°F)
	Discharge	-20°C~55°C (-4°F~131°F)
Standard Charge (at 25°C)	Storage	-20°C~45°C (-4°F~113°F)
	Recommended Charge voltage	7.0V
	Max Charge voltage	7.3V
Standard Discharge (at 25°C)	Recommended charge current	0.9A
	Max Charge current	4.5A
	Max discharge current	4.5A
Standard Discharge (at 25°C)	Peak discharge current	9A/3S
	Recommend discharge cut-off voltage	5.6V
	Max discharge cut-off voltage	5.4V

Constant Current & Power discharge table (25°C)

Discharging time	1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (5.4V)	A	4.5	2.2	1.5	1.1	0.9	0.4
	W	28.8	14	9.6	7	5.7	2.5
							1.28

Battery picture

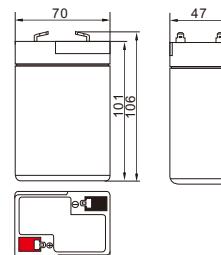
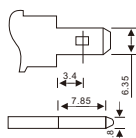


Battery outer dimension and terminal

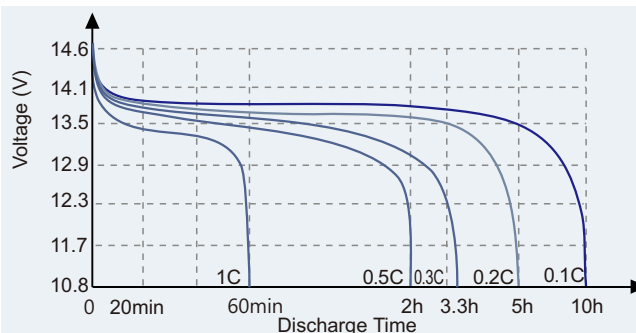
Terminal :T2

Outer dimensions

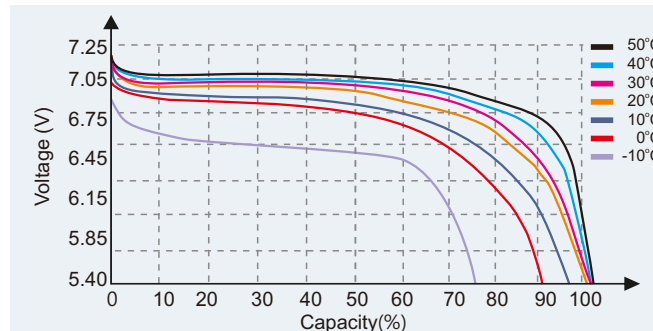
Unit:mm



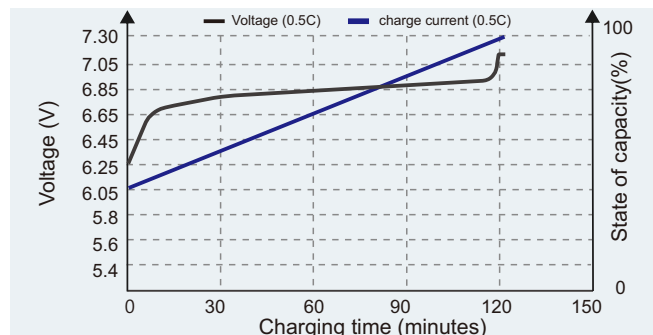
Different Rate Discharge Curve(25°C)



Different Temperature Discharge Curve (0.5C)



Charging Characteristics(0.5C,25°C)



Different DOD discharge cycle life curve(0.2C,25°C)

