

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 examples 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:



Maxton Power Tech Co.,Ltd
www.maxtonpower.com
info@maxtonpower.com



MPLFP12.8-7.2 (12.8V7.2Ah)

Battery Specifications

Nominal Voltage		12.8V
Rated Capacity		7.2Ah
Rated Energy		92.1Wh
Dimensions	Total Height	100mm (3.92inches)
	Height	94mm (3.68inches)
	Width	65mm (2.55inches)
	Length	151mm (5.92nches)
Weight Approx		1.0Kg (2.2lbs)
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	10.0V~14.6V
	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	14.4V
	Max Charge voltage	14.6V
Standard Discharge (at 25°C)	Recommended charge current	1.5A
	Max Charge current	3.5A
	Max discharge current	7.2A
Standard Discharge (at 25°C)	Peak discharge current	25A/3s
	Recommend discharge cut-off voltage	11.2V
	Max discharge cut-off voltage	10.8V

Constant Current & Power discharge table (25°C)

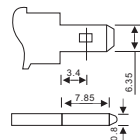
Discharging time	1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8V)	A	7.2	3.6	2.4	1.8	1.44	0.72
	W	92.1	46	30.7	23	18.4	9.2

Battery picture



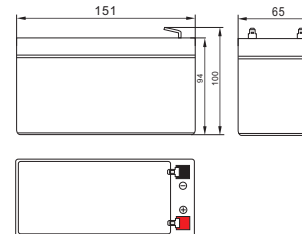
Battery outer dimension and terminal

Terminal :T2



Outer dimensions

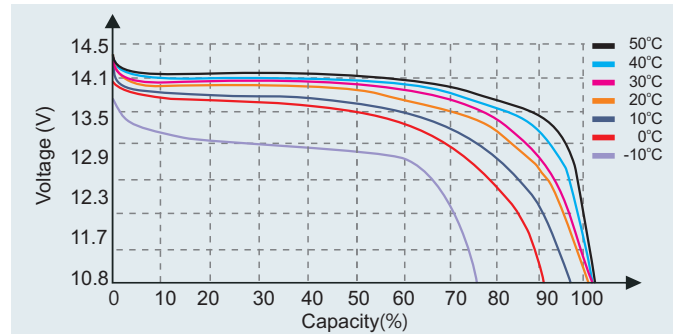
Unit:mm



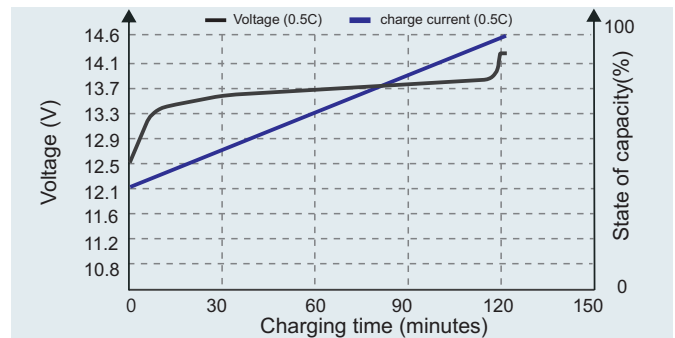
BMS Characteristics

Over charge voltage protection	14.0~14.4V
Over charge delay time protection	500~ 1500mS
Over charging current protection	6A
Over charge delay time protection	500~1500mS
Over discharging voltage protection	8.48~9.12V
Over discharge delay time protection	500~1500mS
Over discharging current protection	30A
Over discharge delay time protection	100~300mS
Short-circuit delay time protection	100~800mS

Different Temperature Discharge Curve (0.5C)



Charging Characteristics(0.5C,25°C)



Different Rate Discharge Curve(25°C)

