

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℃~55℃).
- * LiFePO4 battery is customizable.
- * Main applications:



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



MPLFP12.8-100 (12.8V100Ah)

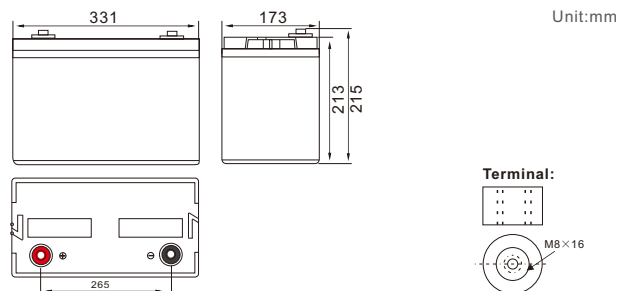
Battery Specifications

Nominal Voltage		12.8V
Rated Capacity		100Ah
Rated Energy		1280Wh
Dimensions	Total Height	215mm (8.43inches)
	Height	213mm (8.35inches)
	Width	171mm (6.70inches)
	Length	331mm (12.97inches)
Weight Approx		10.5Kg (23.2lbs)
Terminal type / Torque		T60(M8)/8.5N.m
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 picture



Battery out dimension & terminal



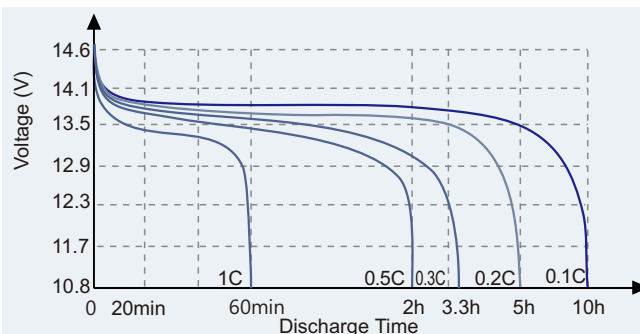
Battery Characteristics

Normal character (at 25°C)	Operation voltage	10.8V~14.4V
	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	14.0V
	Max Charge voltage	14.6V
Standard Discharge (at 25°C)	Recommended charge current	50A
	Max Charge current	50A
	Max discharge current	50A
Standard Discharge (at 25°C)	Peak discharge current	150A/3S
	Recommend discharge cut-off voltage	11.2V
	Max discharge cut-off voltage	10.8V

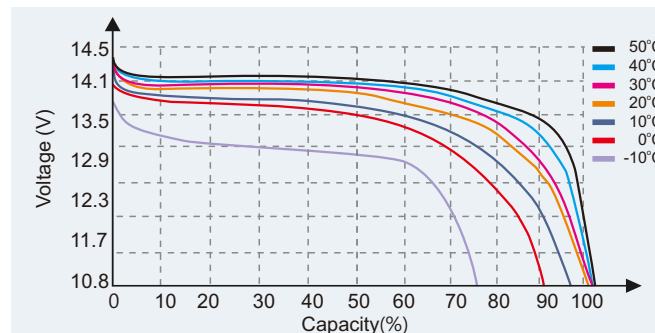
Constant Current & Power discharge table (25°C)

Discharging time		1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8V)	A	100	50	33.4	25	20	10	5
	W	1280	640	426	320	256	128	64

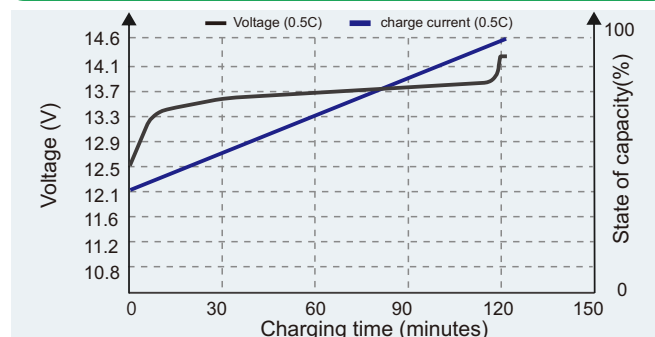
Different Rate Discharge Curve(25°C)



Different Temperature Discharge Curve (0.5C)



Charging Characteristics(0.5C,25°C)



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

