

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.
Nether 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:



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MPLFP12.8-80 (12.8V80Ah)

Battery Specifications

Nominal Voltage		12.8V
Rated Capacity		80Ah
Rated Energy		1024Wh
Dimensions	Total Height	214mm (8.42inches)
	Height	208mm (8.18inches)
	Width	168mm (6.61inches)
	Length	260mm (10.25inches)
Weight Approx		8.5Kg (18.76lbs)
Terminal type / Torque		T16(M6)/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 Characteristics

Normal character (at 25°C)	Operation voltage	10.8V~14.4V
	Monthly self-discharge	<3%
	All Efficiency-round trip	>98%
	Cycle life(80%.DOD)	5000 cycles @0.2C
Operating Temperature Range	Charge	0°C~55°C (32°F~131°F)
	Discharge	-20°C~55°C (-4°F~131°F)
	Storage	-20°C~45°C (-4°F~113°F)
Standard Charge (at 25°C)	Recommended Charge voltage	14.0V
	Max Charge voltage	14.6V
	Recommended charge current	40A
	Max Charge current	80A
Standard Discharge (at 25°C)	Max discharge current	40A
	Peak discharge current	200A/5S±3S
	Recommend discharge cut-off voltage	11.2V
	Max discharge cut-off voltage	10.8V

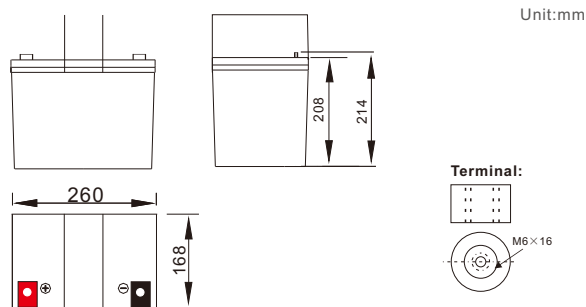
Constant Current & Power discharge table (25°C)

Discharging time		1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8V)	A	80	40	26.6	20	16	8	4
	W	1024	512	340	256	204.8	102.4	51.2

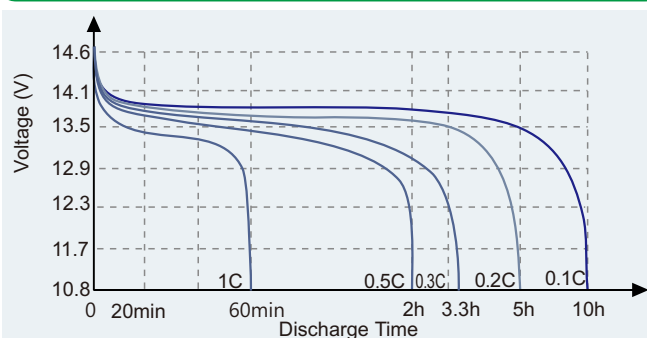
Battery picture



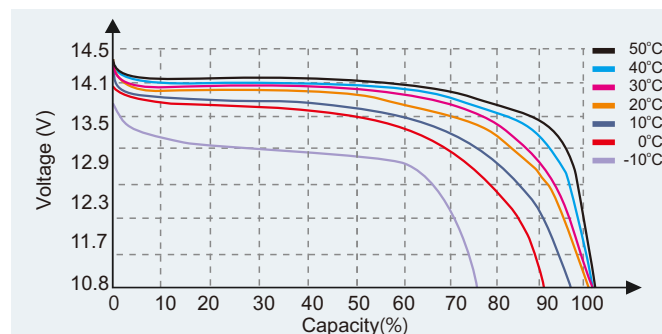
Battery out dimension & terminal



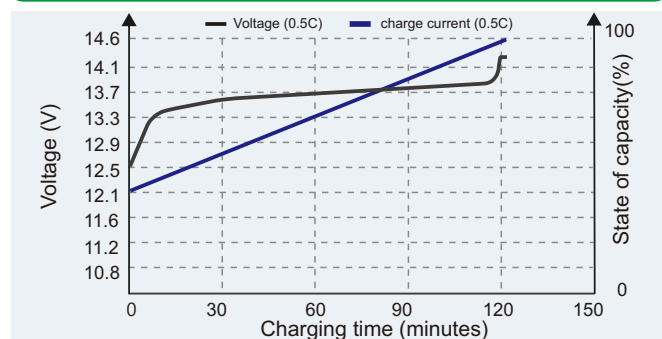
Different Rate Discharge Curve(25°C)



Different Temperature Discharge Curve (0.5C)



Charging Characteristics(0.5C,25°C)



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

