

## 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:



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**MPLFP12.8-150** (12.8V150Ah)

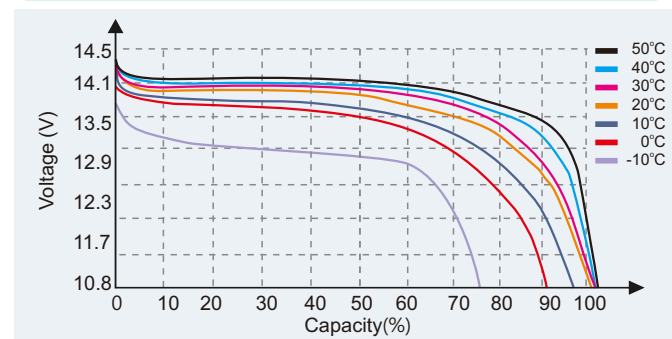
### Battery Specifications

Nominal Voltage		12.8V
Rated Capacity		150Ah
Rated Energy		1920Wh
Dimensions	Total Height	241mm (9.49inches)
	Height	241mm (9.49inches)
	Width	171mm (6.73inches)
	Length	484mm (19.1inches)
Weight Approx		13.5Kg (29.8lbs)
Terminal type / Torque		T19(M8)/8.5.N.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

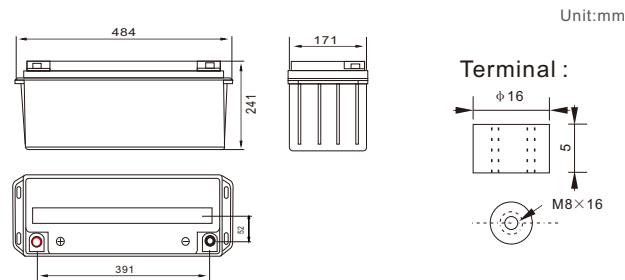
### Battery picture



### Different Temperature Discharge Curve (0.5C)



### Battery out dimension & terminal



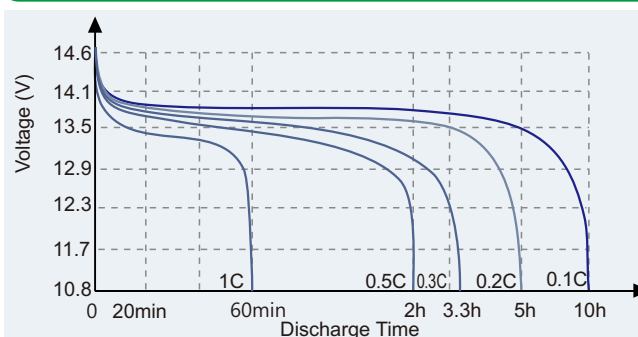
### Battery Characteristics

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	100A
	Max Charge current	100A
	Max discharge current	100A
Standard Discharge (at 25°C)	Peak discharge current	550A/200ms
	Recommend discharge cut-off voltage	12.8V
	Max discharge cut-off voltage	10.8V

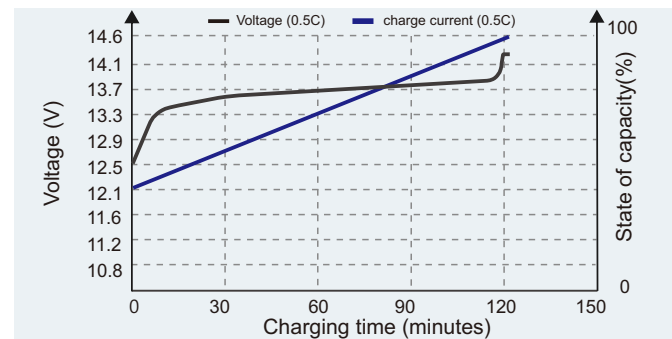
### Constant Current & Power discharge table (25°C)

Discharging time		1h	2h	3h	4h	5h	10h	20h
Cut-off voltage (10.8V)	A	150	75	50	37.5	30	15	7.5
	W	1920	960	640	480	384	192	96

### Different Rate Discharge Curve(25°C)



### Charging Characteristics(0.5C,25°C)



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

