

# 12V Lithium Iron Phosphate (LiFePO4)

NO ONE CAN AFFORD TO BE OUTSIDE OF THIS REVOLUTION!

FW-12-200 (12.8V, 200AH)

## Features of LifeP04 Battery

**Longer cycle life:** A LiFePO4 12V Lithium Battery offers more than 2000 cycles which is approx five times more than a lead-acid battery, helping to minimize replacement cost and reduce total cost of ownership.

**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A drop in replacement for lead acid batteries.

**Higher Power:** Delivers twice the power of lead acid batteries, even high discharge rate, while maintaining high energy capacity.

**Wider Temperature Range:** -20°C~60°C.

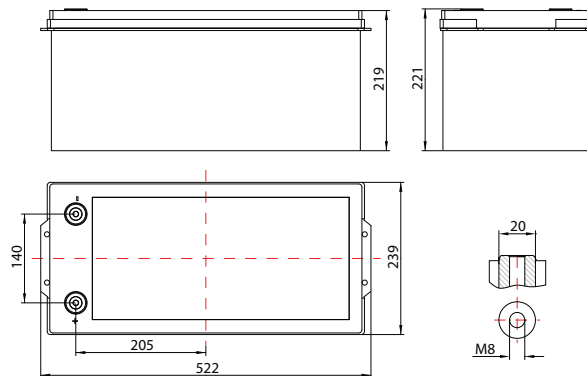
**Super Safety:** Lithium Iron Phosphate Chemistry eliminates the risk of explosion or combustion due to high impact, over charging or short circuit situation.



## Application

- \* Solar/wind energy storage system
- \* UPS, backup Power
- \* Telecommunication
- \* Medical equipment
- \* Lighting

## Physical Dimension



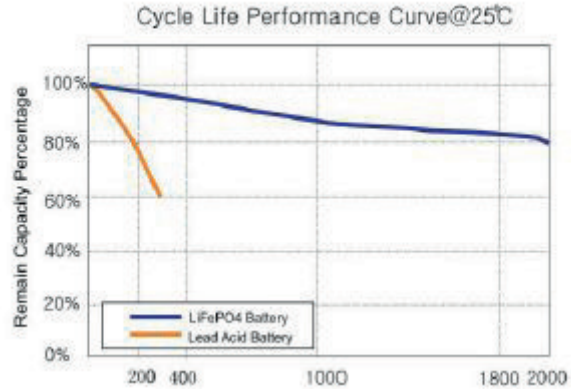
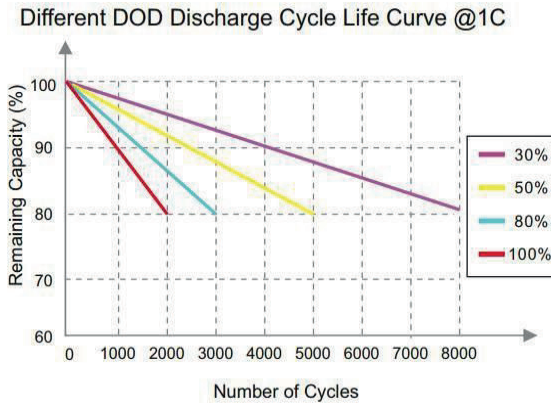
## Specification

Electrical Characteristic	Nominal Voltage	12.8V
	Nominal Capacity	200AH
	Energy	2560Wh
	Internal Resistance	≪30mΩ
	Cycle life	>2000 cycles at 0.2C 100% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% at 0.5C
	Efficiency of discharge	96~99% at 1C
Standard Charge	Charge volt	13.9V~14.2V
	Charge Mode	CC at 0.2C to 14.6V, then at CV14.6V to charge current less than 0.02C
	Standard Charge Current	40A
	Max. Charge current	80A
	Charge cut off voltage	14.6V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	160A
	Discharge Cut-off	10.5V

	Voltage	
Environment	Charge Temperature	0°C to 45°C at 60±25% Relative Humidity
	Discharge Temperature	- 20°C to 60°C at 60±25% Relative Humidity
	Storage Temperature	0°C to 40°C 60±25% Relative Humidity
	Water Dust Resistance	IP56
Mechanical	cell type	Prismatic LiFePo4 cell in 4S8P
	Plastic Case	ABS
	Dimensions (in./mm)	522 x 239 x 221mm
	Weight (lbs./kg.)	29 KG
	Terminal	M8

Cycle Life Curve in Different DOD Discharge at 1C

Cycle Life Performance Curve at 25°C



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