

## Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than 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 power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20°C~60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

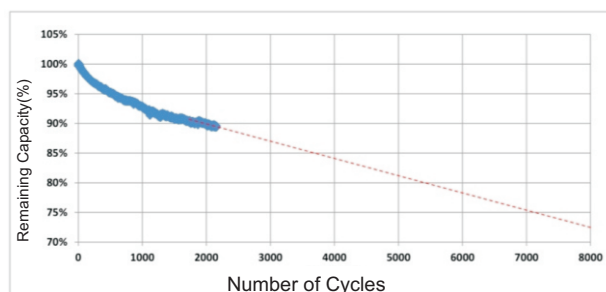
## LFP12.8-250(12.8V250Ah)



## Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

## Cycle Life Curve



## Specification

|                            |                           |                                                         |
|----------------------------|---------------------------|---------------------------------------------------------|
| Electrical Characteristics | Nominal Voltage           | 12.8V                                                   |
|                            | Nominal Capacity          | 250Ah (C5,25°C)                                         |
|                            | Energy                    | 3200Wh                                                  |
|                            | Internal Resistance       | ≤200mΩ                                                  |
|                            | Cycle Life                | >3000 cycles @1C 100%DOD                                |
|                            | Months Self Discharge     | <3%                                                     |
|                            | Efficiency of Charge      | 100% @0.2C                                              |
|                            | Efficiency of Discharge   | 96~99% @1C                                              |
| Standard Charge            | Charge Voltage            | 14.6±0.2V                                               |
|                            | Charge Mode               | 0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)    |
|                            | Charger Current           | 50A                                                     |
|                            | Max. Charge Current       | 150A                                                    |
|                            | Charge Cut-off Voltage    | 14.8V±0.2V                                              |
| Standard Discharge         | Continuous Current        | 150A                                                    |
|                            | Max. Pulse Current        | 450A(<3s)                                               |
|                            | Discharge Cut-off Voltage | 10V                                                     |
| Environmental              | Charge Temperature        | 0 °C to 45 °C (32F to 113F) @60%25% Relative Humidity   |
|                            | Discharge Temperature     | -20 °C to 60 °C (-4F to 140F) @60%25% Relative Humidity |
|                            | Storage Temperature       | 0 °C to 40 °C (32F to 104F) @60%25% Relative Humidity   |
|                            | Water Dust Resistance     |                                                         |
| Mechanical                 | Cell & Method             |                                                         |
|                            | Plastic Case              | ABS                                                     |
|                            | Dimensions (in./mm.)      | 522*268*218 mm                                          |
|                            | Weight (lbs./kg.)         | 24Kg                                                    |
|                            | Terminal                  | M8                                                      |
|                            | Protocol (optional)       | NO                                                      |
|                            | BMS                       | 4S150A                                                  |