

### Features of LiFePO4 Battery

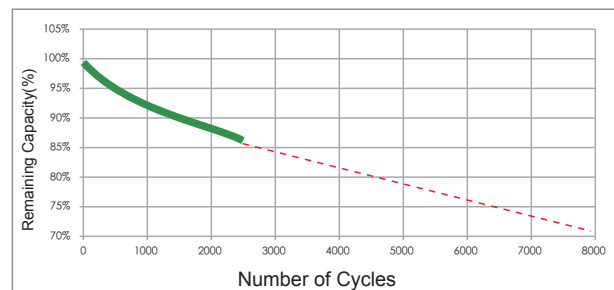
- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement 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.



### 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          | 100Ah (C <sub>5</sub> ,25°C)                            |
|                            | Energy                    | 1280Wh  |
|                            | Internal Resistance       | ≤ 150mΩ   |
|                            | Cycle Life                | >2000 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±0.2 V  |
|                            | Charge Mode               | 0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)    |
|                            | Charger Current           | 50A   |
|                            | Max. Charge Current       | 100A  |
|                            | Charge Cut-off Voltage    | 14.8V± 0.2V   |
| Standard Discharge         | Continuous Current        | 100A  |
|                            | Max. Pulse Current        | 300A(<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             | 3.2V50AH-4S2P   |
|                            | Plastic Case              | ABS   |
|                            | Dimensions (in./mm.)      | 330*173*220 mm  |
|                            | Weight (lbs./kg.)         | 10.3Kg  |
|                            | Terminal                  | M8  |
|                            | Protocol (optional)       | NO  |
|                            | BMS                       | 4S100A  |