

## Features of LiFePO4 Battery

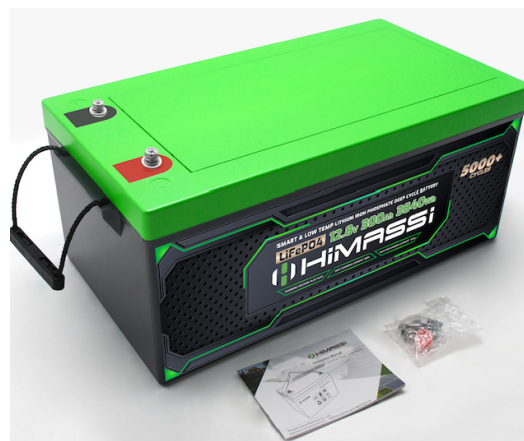
**Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

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

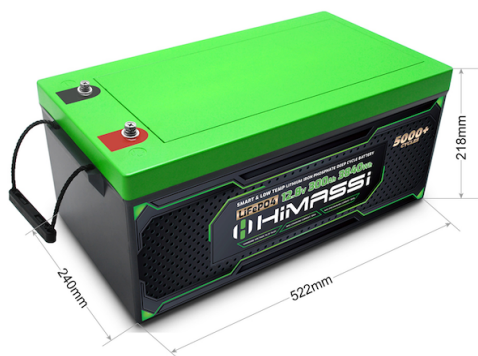
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**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.



## Physical Dimension



Dimension: (mm)  
L522\*W240\*H218

Colour: Black & Green

M8 Terminal



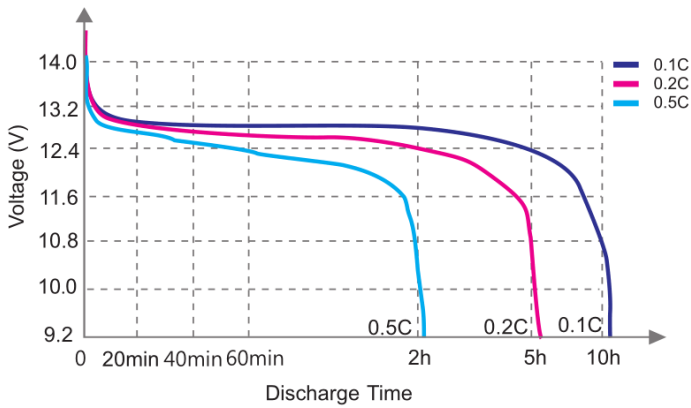
## Typical Applications

- Solar/Wind Energy Storage
- Back-up Power for UPS/ EPS
- Telecommunication
- Low Speed Electric Vehicles
- Marine Boats
- DC Power Supply
- Auto Control System
- Power Tools
- Electric Toys

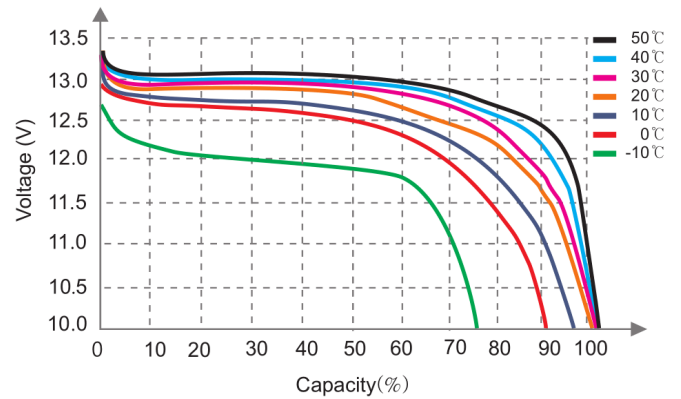
## Specification

|                            |                                  |                                                                                     |
|----------------------------|----------------------------------|-------------------------------------------------------------------------------------|
| Electrical Characteristics | Nominal Voltage                  | 12.8V                                                                               |
|                            | Nominal Capacity                 | 300Ah                                                                               |
|                            | Minimum Capacity                 | 300Ah                                                                               |
|                            | Energy                           | 3840Wh                                                                              |
|                            | Cycle Life                       | >2000 cycles @0.5C 100%DOD                                                          |
|                            | Months Self Discharge            | <3%                                                                                 |
|                            | Efficiency of Charge             | 100% @0.5C                                                                          |
|                            | Efficiency of Discharge          | 96~99% @0.5C                                                                        |
|                            | BMS Functions                    | Over charge, over discharge, over current, short circuit and temperature protection |
| Standard Charge            | Charge Voltage                   | 14.2-14.6V                                                                          |
|                            | Charge Mode                      | 0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV)                           |
|                            | Charge Current                   | 60A                                                                                 |
|                            | Max. Charge Current              | 150A                                                                                |
| Standard Discharge         | Standard Discharge Current       | 60A                                                                                 |
|                            | Max Continuous Discharge Current | 150A                                                                                |
|                            | Discharge Cut-off Voltage        | 10V±0.5V                                                                            |
| Environmental              | Charge Temperature               | 0 °C to 55 °C (32F to 131F) @60±25% Relative Humidity                               |
|                            | Discharge Temperature            | -20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity                             |
|                            | Storage Temperature              | -20 °C to 45 °C (-4F to 113F) @60±25% Relative Humidity                             |
|                            | IP Class                         | IP65                                                                                |
| Mechanical                 | Plastic Case                     | ABS                                                                                 |
|                            | Approx. Dimensions               | L522*W240*H218mm                                                                    |
|                            | Approx. Weight                   | 31.5kG                                                                              |

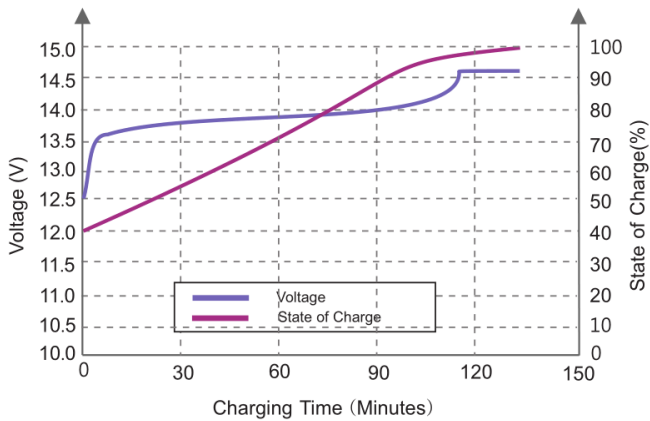
## Different Rate Discharge Curve (25°C)



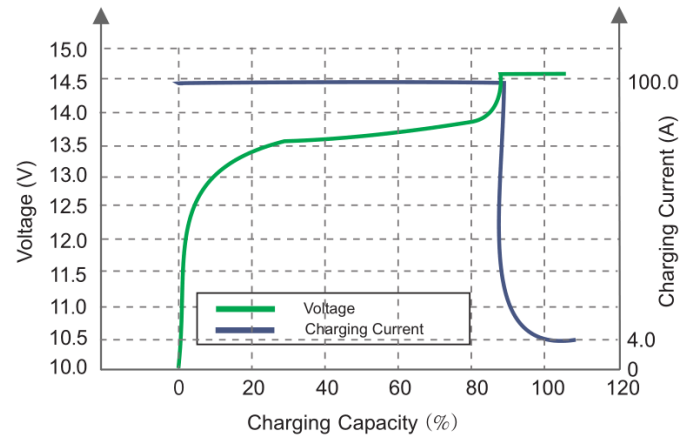
## Different Temperature Discharge Curve (0.2C)



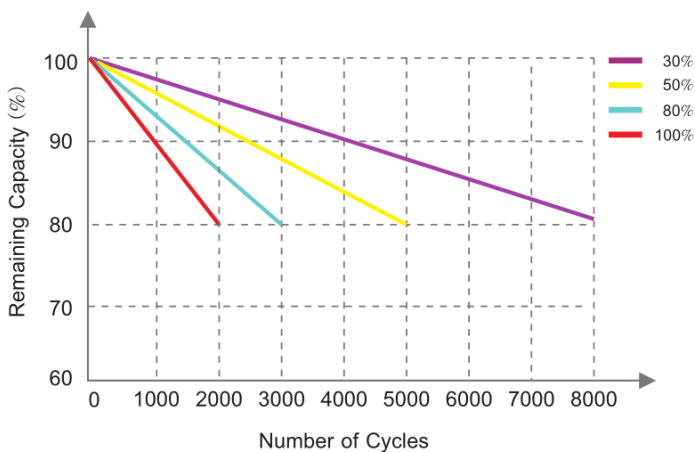
## State of Charge Curve (0.2C, 25°C)



## Charging Characteristics (0.2C, 25°C)



## Different DOD Discharge Cycle Life Curve (0.2C)



## Different Temperature Self Discharge Curve

