

### LiFePO<sub>4</sub> Lithium Battery

**Longer Cycle Life:** Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

**Lighter Weight:** About 40% weight of a comparable lead acid battery, save up to 60% in weight.

**Quick Charge:** Short charge time compared with lead acid battery.

**Low Self-Discharge:** Lower self-discharge compared with lead acid battery, longer storage time without recharging.

**Superior Safety:** Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

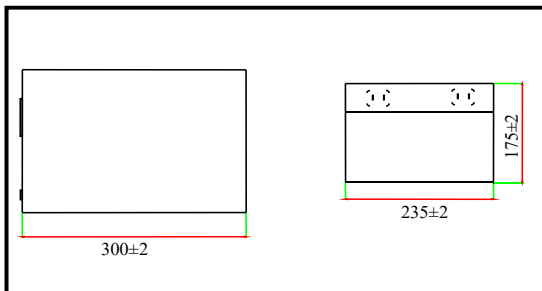
**High Efficient:** Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



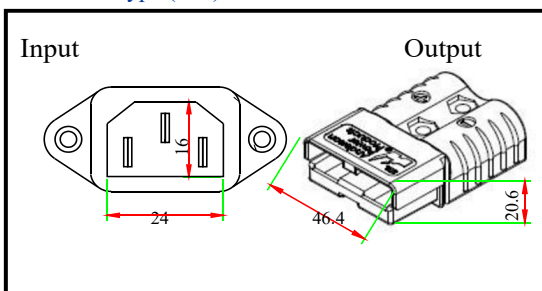
### Specifications

|                  |              |                       |
|------------------|--------------|-----------------------|
| Nominal voltage  |              | 12V                   |
| Nominal capacity |              | 200Ah 300±2mm         |
| Dimensions       | Length       | (11.81inch) 235±2mm   |
|                  | Width        | (9.25inch) 175±2mm    |
|                  | Height       | (6.89inch) 175±2mm    |
|                  | Total height | (6.89inch)            |
| Approx. weight   |              | 23.05kg (50.81lbs)±4% |

### Outer dimensions (mm)



### Terminal type (mm)

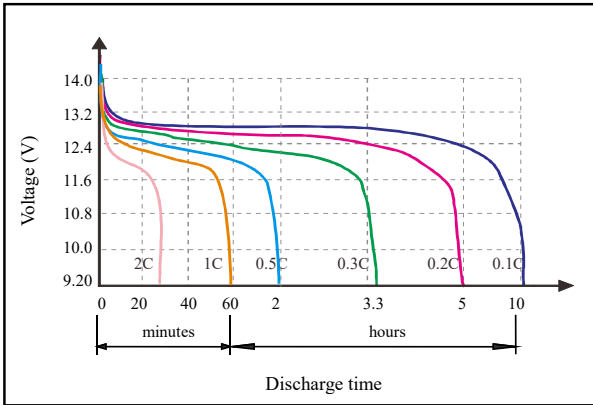


### Characteristics

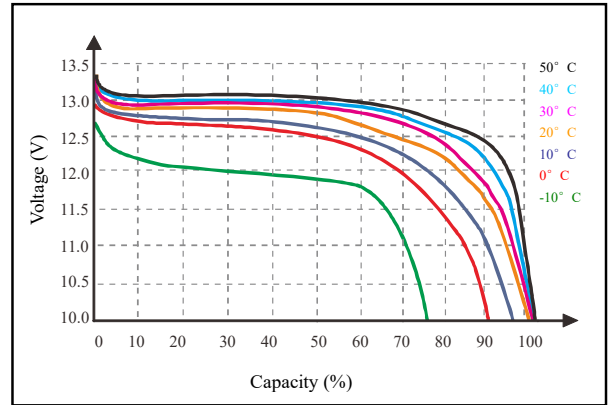
|   |                                  |   |
|---|----------------------------------|---|
| (mm)<br>Electrical Parameters (25°C)      | Rated Voltage                    | 12.8V   |
|   | Rated Capacity (C <sub>5</sub> ) | 200Ah@25°C  |
|   | Energy                           | 2560Wh  |
|   | Months Self Discharge            | <3%   |
|   | Charge Efficiency                | 99.5%@ 0.2C   |
|   | Discharge Efficiency             | 96-99%@ 1C  |
| Terminal type                             |                                  | T16   |
| Internal resistance (Fully charged, 25°C) |                                  | ≤14mΩ   |
| Cycle life                                |                                  | >3000 cycles @ 0.2C 100%D.O.D   |
| Capacity affected by temperature          | 40°C                             | 101%  |
|   | 25°C                             | 100%  |
|   | 0°C                              | 90%   |
|   | -10°C                            | 75%   |
| Nominal operating temperature             |                                  | 25°C±3°C (77°F±5°F)   |
| Operating temperature range               | Discharge                        | -20°C~60°C (-4°F~140°F)   |
|   | Charge                           | 0°C~45°C (32°F~113°F)   |
|   | Storage                          | 0°C~40°C (32°F~104°F)   |
| Water Dust Resistance                     |                                  | IP65  |
| Charge Voltage                            |                                  | 14.6V   |
| Standard Charge Mode (25°C±2°C, <75%RH)   |                                  | 0.2CA Constant Current to 14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, before use, rest 30 minutes |
| Charge Current                            |                                  | 40A   |
| Maximum Charge Current                    |                                  | 100A  |
| Charge Cut off Voltage                    |                                  | 14.6V   |
| Continuous Discharge Current              |                                  | 200A  |
| Maximum Pulse Current                     |                                  | 300A (<2s)  |
| Discharge Cut Off Voltage                 |                                  | 11.2V   |
| Communicate Protocol (optional)           |                                  | (default none)RS485   |
| SOC (optional)                            |                                  | (default none) Bluetooth  |
| Application connection                    |                                  | 1 string 1 parallel   |
| Mechanical                                | Cells                            | 4 Strings   |
|   | Container                        | ABS   |

Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

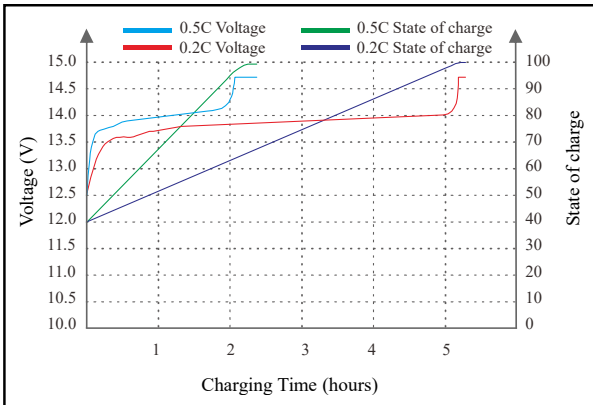
● Discharge characteristics (25°C)



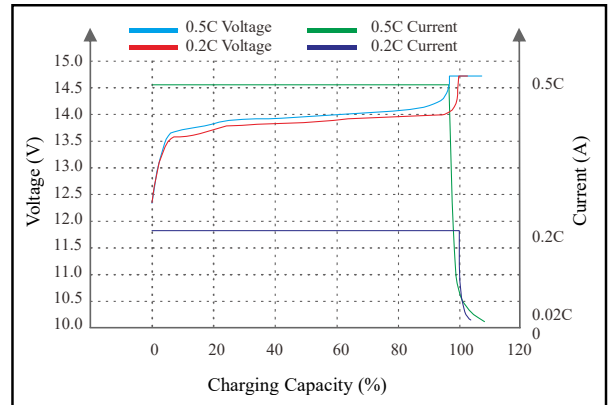
● Temperature affect on discharge characteristics (0.5C)



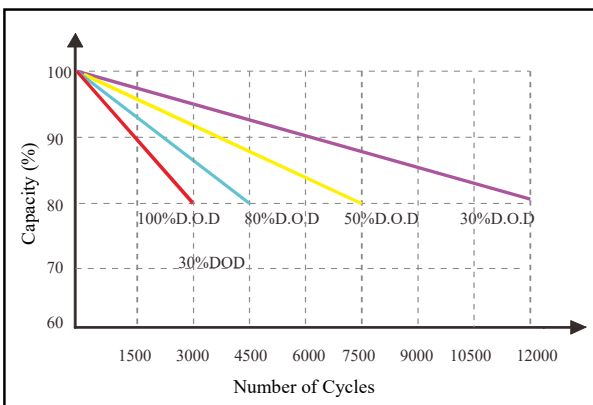
● State of Charge Curve (25°C)



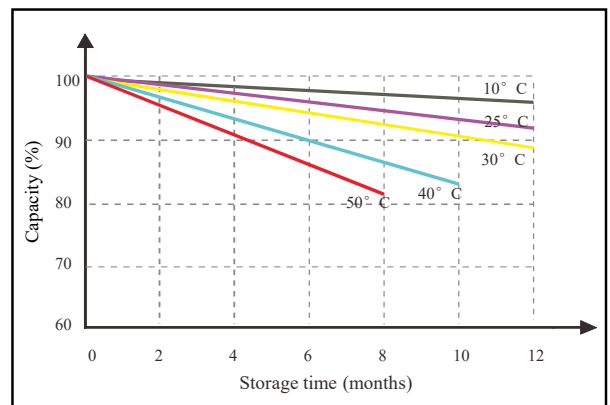
● Charge characteristics (25°C)



● Cycle life on D.O.D (25°C)



● Self Discharge Characteristics Curve



Note 2: The above curves are based on laboratory testing data @ 25°C 40%RH.

