

**Lithium Iron Phosphate (LiFePO<sub>4</sub>) Battery**

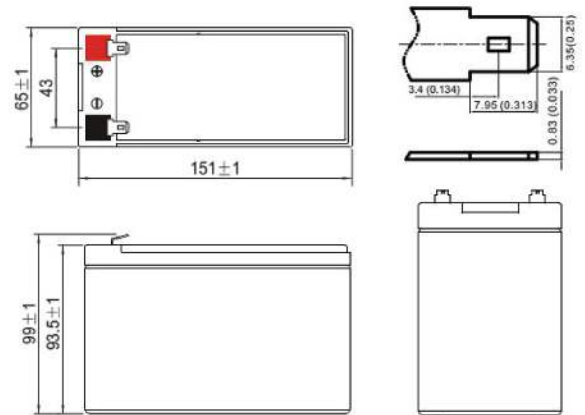
**Specifications**

|                                   |                           |   |
|-----------------------------------|---------------------------|---|
| <b>Electrical Characteristics</b> | Nominal Voltage           | 12.8V   |
|                                   | Nominal Capacity          | 7.5AH   |
|                                   | Energy                    | 96Wh  |
|                                   | Internal Resistance       | ≤ 60mΩ  |
|                                   | Cycle Life                | >2000 cycles at 0.2C<br>100% DOD  |
|                                   | Self Discharge Per Month  | <3%   |
|                                   | Efficiency of Charge      | Near 100% @ 0.5C<br>(when used with proper LiFePO <sub>4</sub> charger)                 |
|                                   | Efficiency of Discharge   | 96 ~ 99% @ 1C   |
| <b>Charge</b>                     | Charge Voltage            | 14.6 ± 0.2V   |
|                                   | Charge Mode               | CC at 0.2C to 14.6V, then at CV14.6V to charge current less than 0.02C                  |
|                                   | Charge Current            | 1.5A  |
|                                   | Max. Charge Current       | 7.5A  |
|                                   | Over Voltage Protection   | 15.6V ± 0.2V  |
| <b>Discharge</b>                  | Max. Continuous Current   | 7.5A  |
|                                   | Max. Pulse Current        | 15A (<3s)   |
|                                   | Discharge Cut-off Voltage | 9.6V  |
| <b>Environmental</b>              | Charge Temperature        | 0°C to 45°C (32°F to 113°F)<br>at 60 ± 25% Relative Humidity                            |
|                                   | Discharge Temperature     | -20°C to 60°C (-4°F to 140°F)<br>at 60 ± 25% Relative Humidity                          |
|                                   | Storage Temperature       | 0°C to 40°C (32°F to 104°F)<br>at 60 ± 25% Relative Humidity                            |
|                                   | Water/Dust Resistance     | IP56  |
| <b>Mechanical</b>                 | Cell Material             | LiFePO <sub>4</sub>   |
|                                   | Plastic Case              | ABS   |
|                                   | Dimensions (in./mm)       | 5.94 x 2.56 x 3.90 /<br>151 x 65 x 99   |
|                                   | Weight (lbs./kg.)         | 2.43 / 1.1  |
|                                   | Terminal Type             | F2  |
| <b>BMS</b>                        | Protection Function       | Over charge. Over discharge.<br>Over current. Short circuit,<br>Balancing, Temperature. |

Zeus Battery highly recommends to use LiFePO<sub>4</sub> charger suitable for each battery for optimum charge performance

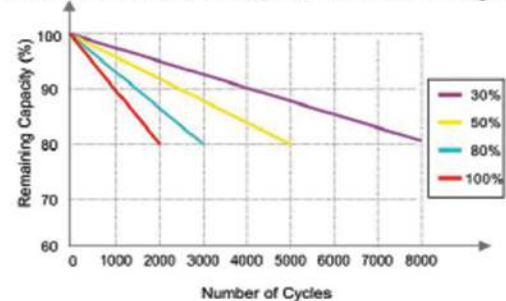


**Physical Dimensions**



**Discharge Characteristics**

Different DOD Discharge Cycle Life Curve @ 1C



Cycle Life Performance Curve @ 25°C

