

Lithium Iron Phosphate (LiFePO₄) Battery

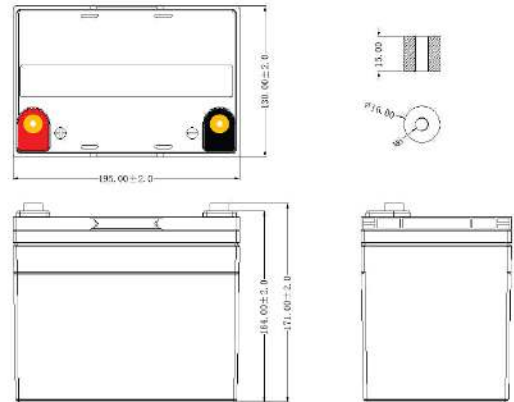
Specifications

| | | |
|-----------------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 30AH |
| | Energy | 384Wh |
| | Internal Resistance | ≤ 50mΩ |
| | Cycle Life | >2000 cycles at 0.2C 100% DOD |
| | Self Discharge Per Month | <3% |
| | Efficiency of Charge | Near 100% @ 0.5C (when used with proper LiFePO ₄ charger) |
| | Efficiency of Discharge | 96 ~ 99% @ 1C |
| Charge | 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 | 6A |
| | Max. Charge Current | 15A |
| | Over Voltage Protection | 15.6V ± 0.2V |
| Discharge | Max. Continuous Current | 30A (not for Cycle Life) |
| | Max. Pulse Current | 60A (<3s) |
| | Discharge Cut-off Voltage | 9.6V |
| Environmental | Charge Temperature | 0°C to 45°C (32°F to 113°F) at 60 ± 25% Relative Humidity |
| | Discharge Temperature | -20°C to 60°C (-4°F to 140°F) at 60 ± 25% Relative Humidity |
| | Storage Temperature | 0°C to 40°C (32°F to 104°F) at 60 ± 25% Relative Humidity |
| | Water/Dust Resistance | IP56 |
| Mechanical | Cell Material | LiFePO ₄ |
| | Plastic Case | ABS |
| | Dimensions (in./mm) | 7.68 x 5.12 x 7.01 / 195 x 130 x 178 |
| | Weight (lbs./kg.) | 10.36 / 4.7 |
| | Terminal Type | M6 |
| BMS | Protection Function | Over charge. Over discharge. Over current. Short circuit, Balancing, Temperature. |

Zeus Battery highly recommends to use LiFePO₄ charger suitable for each battery for optimum charge performance

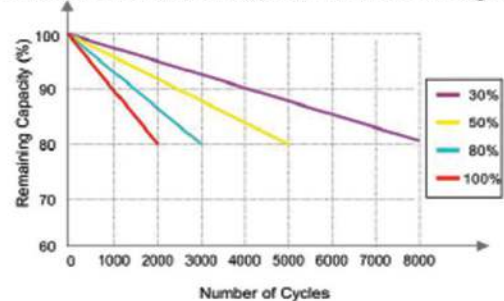


Physical Dimensions



Discharge Characteristics

Different DOD Discharge Cycle Life Curve @ 1C



Cycle Life Performance Curve @ 25°C

