

Lithium Iron Phosphate (LiFePO4) Battery

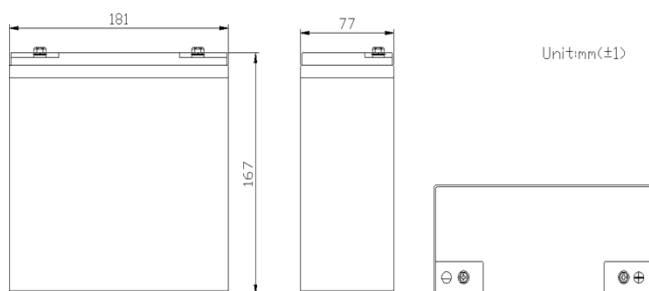
Features

- ◆ Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions
- ◆ Built-in automatic protection for over-charge, over discharge, over current and over temperature
- ◆ Maintenance free
- ◆ Internal cell balancing
- ◆ Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.
- ◆ Can be charged using most standard lead-acid charges (set)
- ◆ Wider temperature range:-20℃~60℃



Application

- ◆ UPS
- ◆ Solar & Wind power system
- ◆ Golf Cart
- ◆ Electric vehicle , E-bike, E-rickshaw e.g.
- ◆ Lighting

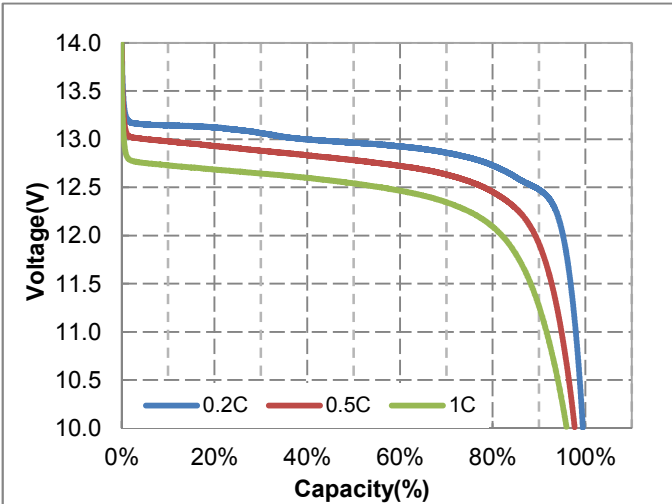


General Specifications

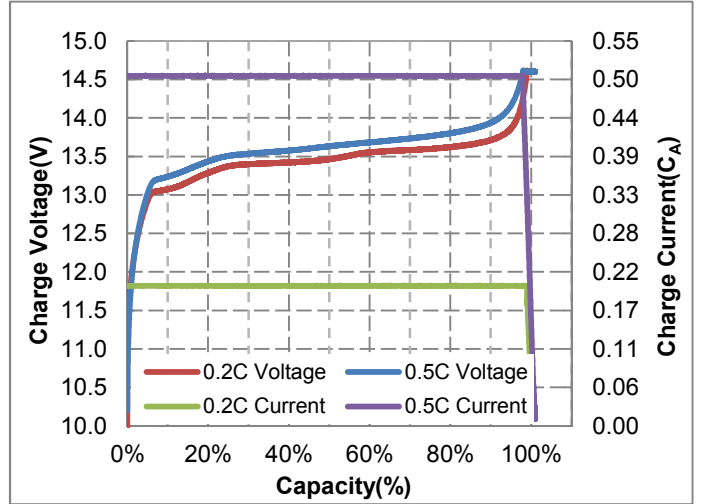
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|----------------------------|----------------------------|--|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 24Ah@0.2C |
| | Energy | 307.2Wh |
| | Internal Resistance | 60≤mΩ |
| | Cycle Life | >2000 Cycles @ 0.2C Charge/Discharge at 100%DOD,End of Life 70% Capacity. |
| | Months Self Discharge | ≤3.5% per month at 25℃ |
| Standard Charge | Charge Voltage | 14.6±0.2V |
| | Charge Mode (CC/CV) | At 0℃~45℃ temperature, charged to 14.6V at a constant current of 0.2C5A, and then,changed continuously with constant voltage of 14.6V until the current was not more than 0.02C5A. |
| | Charger Current | 4.8A |
| | Max.Charge Current | 12A |
| Standard Discharge | Discharge Current | 4.8A |
| | Max. Continuous Current | 24A |
| | Max.Pulse Current | 60A(<3S) |
| | Disxcharge Cut-off Voltage | 10.0V |
| Environmental | Charge Temperature | 0℃ to 45℃(32°F to 113°F) @60±25% Relative Humidity |
| | Disxcharge Temperature | -20℃ to 60℃(-4°F to 140°F) @60±25% Relative Humidity |
| | Storage Temperature | 0℃ to 45℃(32°F to 113°F) @60±25% Relative Humidity |
| | Water Dust Resistance | IP55 |
| Mechanical | Cell & Method | IFR32700 N60,4S4P |
| | Plastic Case | ABS |
| | Dimension(L*W*H*TH) | 181*77*167*167mm |
| | Weight | Approx. 2.9Kg |
| | Terminal | M5 |

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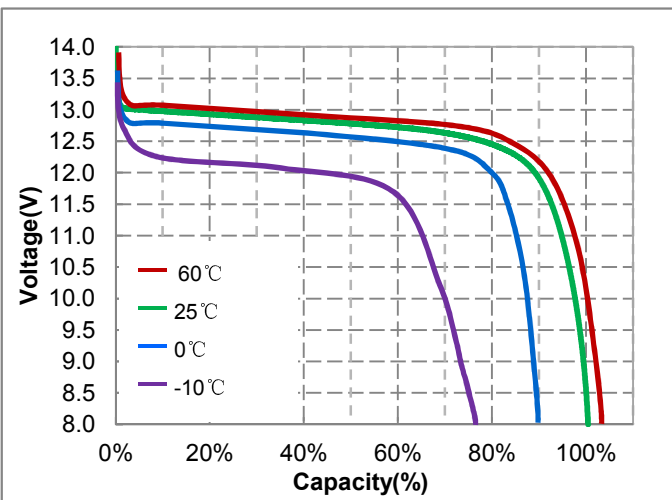
Different Rate Discharge Curve @ 25°C



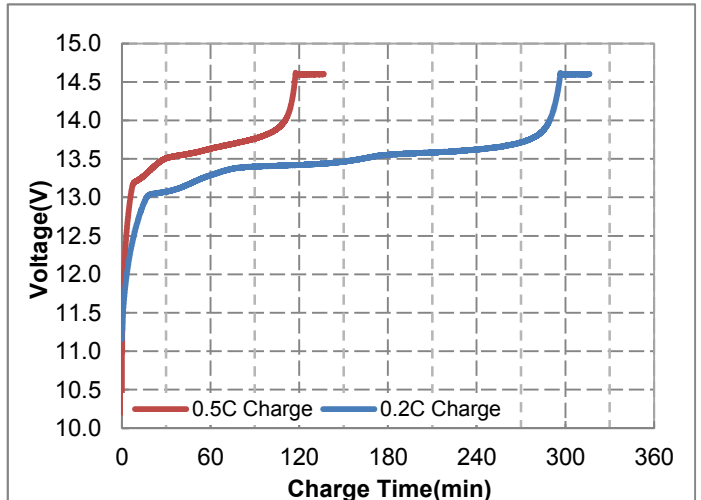
Charge Characteristics @0.2C&0.5C, 25°C



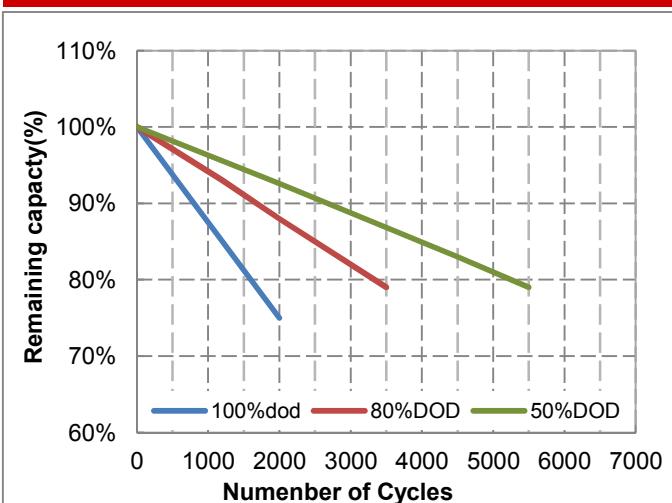
Different Temperature Discharge Curve @0.5C, 25°C



Charge Characteristics @0.2C&0.5C, 25°C



Different DOD Discharge Cycle Life Curve @0.5C, 25°C



Open circuit voltage VS SOC%

