

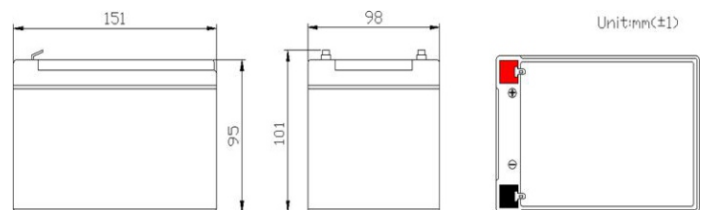
Lithium Iron Phosphate (LiFePO4) Battery

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 chargers (set)
- ◆ Wide temperature range: -20°C ~60°C

Application

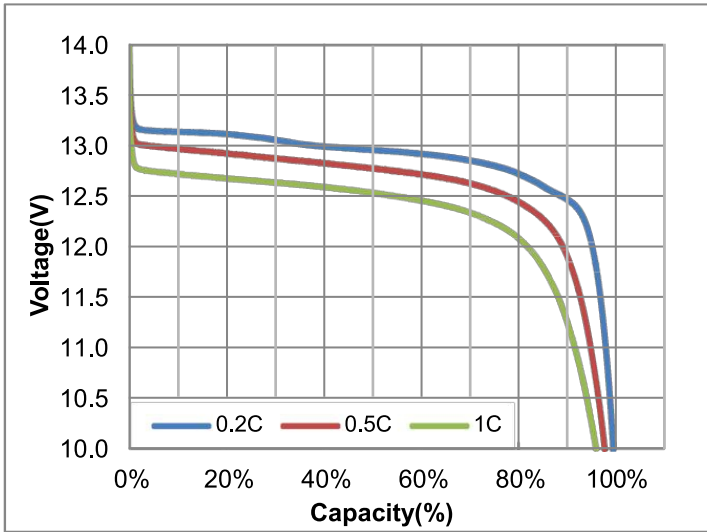
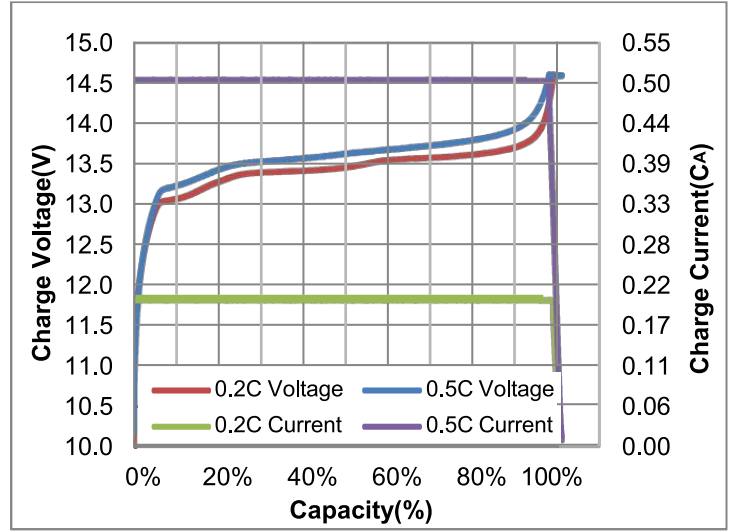
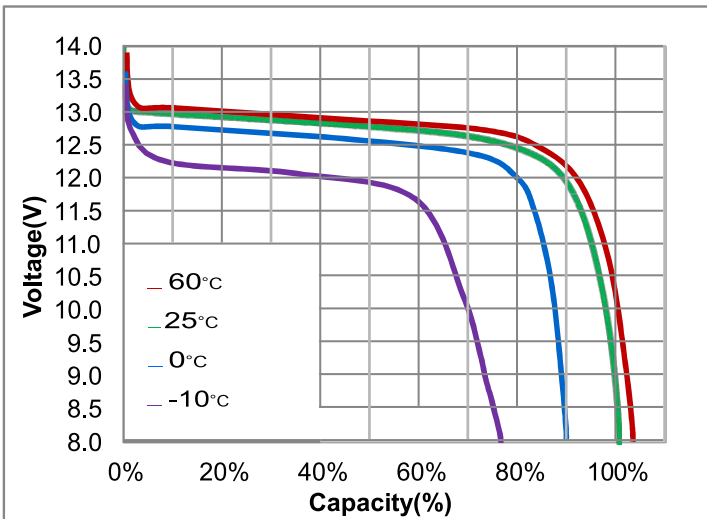
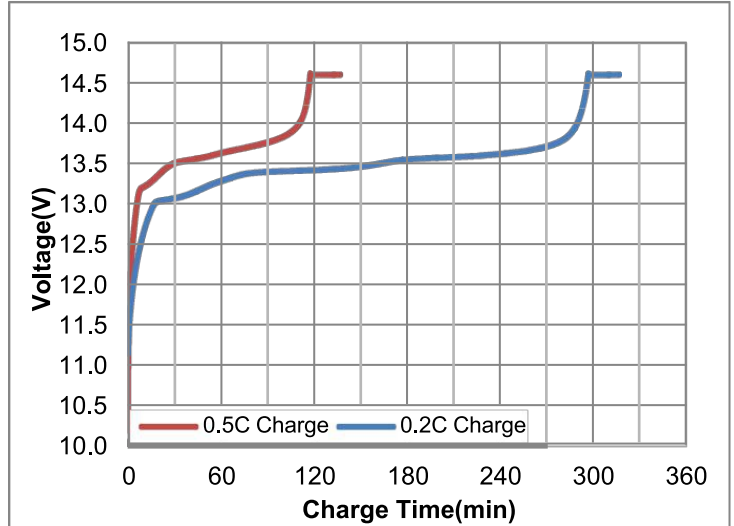
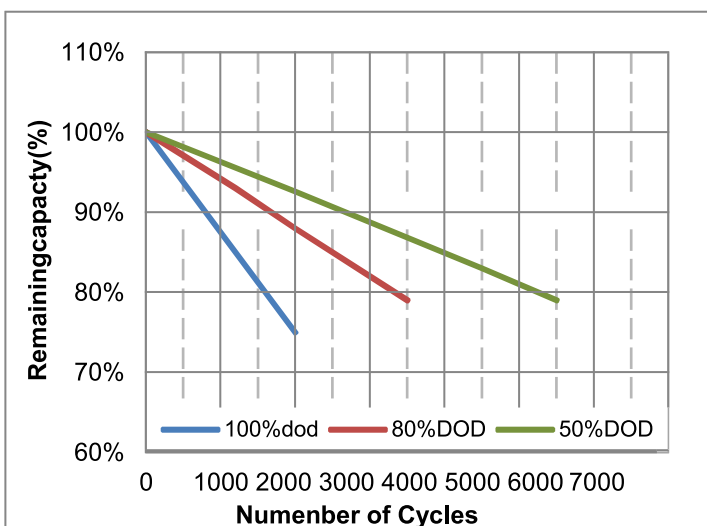
- ◆ UPS
- ◆ Solar & Wind power system
- ◆ Golf Cart
- ◆ Electric vehicle, E-bike, E-rickshaw e.g.
- ◆ Lighting



General Specifications

| | | |
|----------------------------|---------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 12Ah@0.2C |
| | Energy | 153.6Wh |
| | Internal Resistance | 70≤mΩ |
| | Cycle Life | >3000 Cycles @ 0.2C Charge/Discharge at 80%DOD, End of Life 60% Capacity. |
| Standard Charge | Months Self Discharge | ≤3.5% per month at 25 |
| | Charge Voltage | 14.6±0.2V |
| | Charge Mode (CC/CV) | At 0°C~45°C 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 | 2.4A |
| Standard Discharge | Max.Charge Current | 6A |
| | Discharge Current | 2.4A |
| | Max. Continuous Current | 20A |
| | Max.Pulse Current | 60A(<3S) |
| Environmental | Discharge Cut-off Voltage | 10.0V |
| | Charge Temperature | 0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity |
| | Discharge Temperature | -20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity |
| | Storage Temperature | 0°C to 45°C (32°F to 113°F) @60±25% Relative Humidity |
| Mechanical | Water Dust Resistance | IP55 |
| | Cell & Method | IFR32700 N60,4S2P |
| | Plastic Case | ABS |
| | Dimension(L*W*H*TH) | 151*98*95*101mm |
| | Weight | Approx. 1.55Kg |
| | Terminal | F2 |

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DifferentRateDischargeCurve@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

Open circuit voltage VS SOC%
