

Lithium Iron Phosphate (LiFePO4) Battery

TN-LFP12.8V110AH

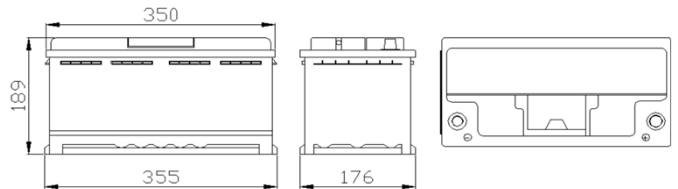
Features

- ◆ 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.
- ◆ Free of maintenance .
- ◆ 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℃.
- ◆ Support for Series application expansion (up to 51.2V) and two in parallel.



Application

- ◆ UPS
- ◆ Solar & Wind Power System
- ◆ Golf Cart
- ◆ Electric Vehicle , E-bike, E-rickshaw etc.
- ◆ Lighting



General Specifications

| | | |
|----------------------------|-----------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 110Ah@0.2C |
| | Energy | 1408Wh |
| | Internal Resistance | 30≤mΩ |
| | Cycle Life | 2000 Cycles @ 0.2C Charging/Discharging ,Until 70% Capacity |
| | Self Discharge | ≤3.5% per month at 25℃ |
| Standard Charging | Max.Charging Voltage | 14.0~14.6V |
| | Charging Mode | 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 |
| | Charging Current | 21.6A |
| | Max.Charging Current | 54A |
| Standard Discharging | Discharging Current | 21.6A |
| | Max. Continuous Current | 100A |
| | Max.Pulse Current | 200A(<3S) |
| | Discharging Cut-off Voltage | 10.0 |
| Operating Condition | Charge Temperature | 0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity |
| | Discharge Temperature | -20℃ to 60℃(-4℉ to 140℉) @60±25% Relative Humidity |
| | Storage Temperature | 0℃ to 45℃(32℉ to 113℉) @60±25% Relative Humidity |
| | Water Dust Resistance | IP55 |
| Structure | Cell & Format | IFR32700 N60,4S18P |
| | Casing | Plastic |
| | Dimension(L*W*H*TH) | 355*176*189*189mm |
| | Weight | Approx. 13.7Kg |
| | Terminal | SAE |

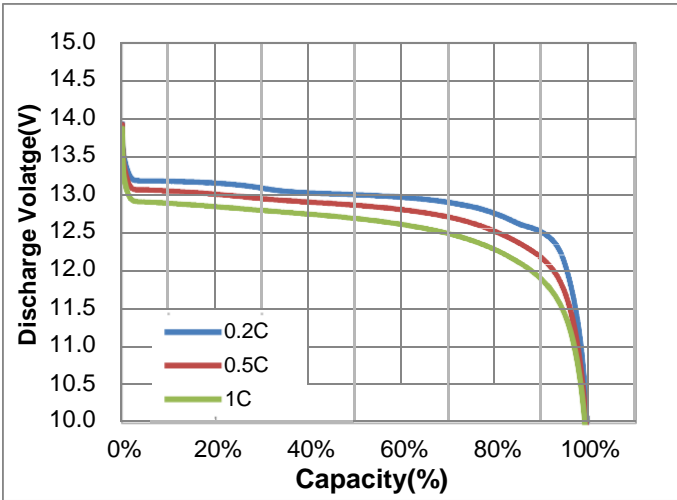
Tianneng Battery Group Co.,Ltd.

18 Baoqiao Road, Huaxi Industrial Function Zone,Zhejiang, China 313100

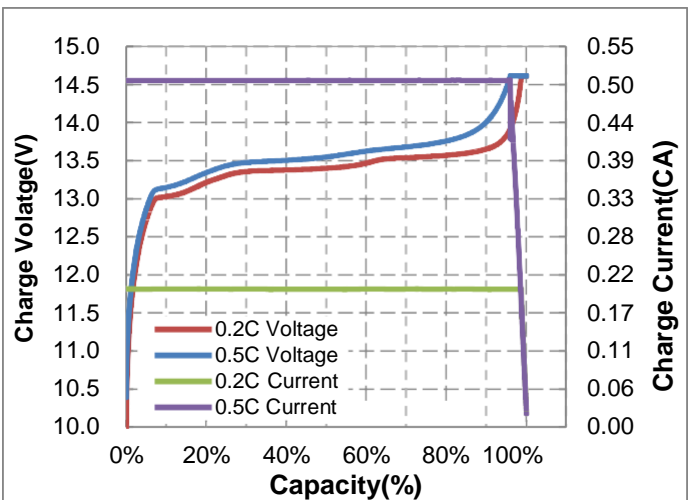
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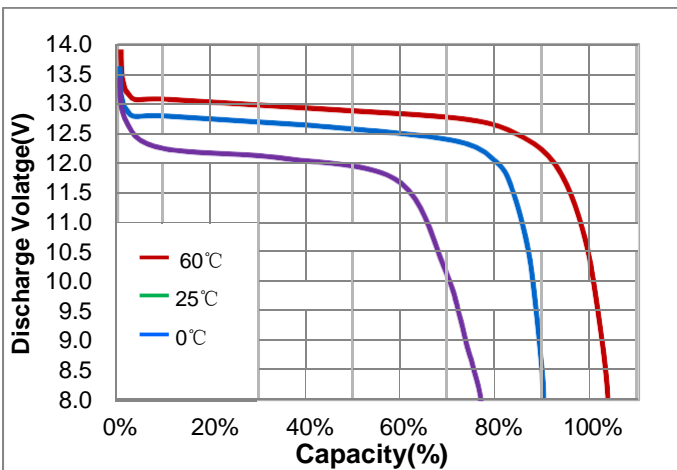
Different Rate Discharge Curve @25°C



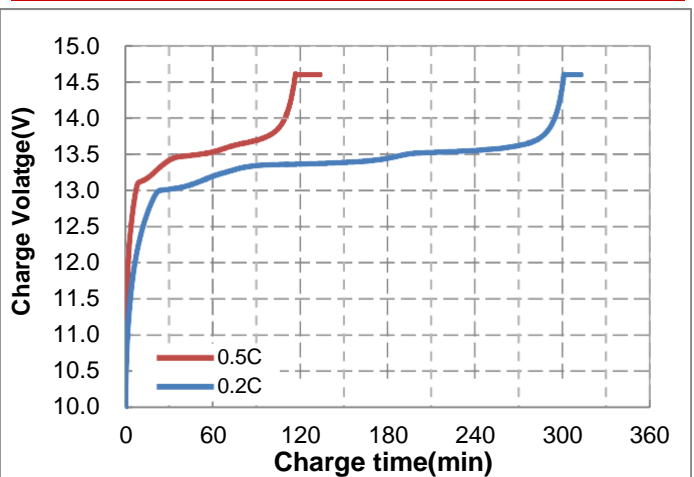
Charge Characteristics of capacity-voltage@0.2C&0.5C, 25°C



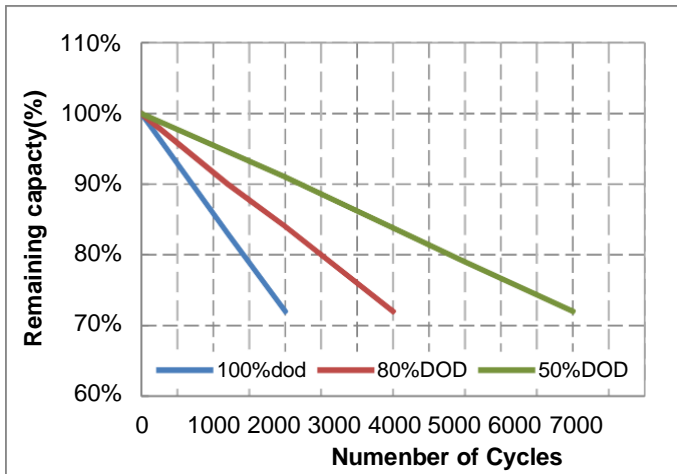
Different Temperature Discharge Curve @0.5C, 25°C



Charge Characteristics of time-voltage@0.2C&0.5C, 25°C



Different DOD Discharge Cycle Life Curve @0.2C, 25



Open circuit voltage VS SOC%@25

