

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

## AJ-LFP12.8V33AH

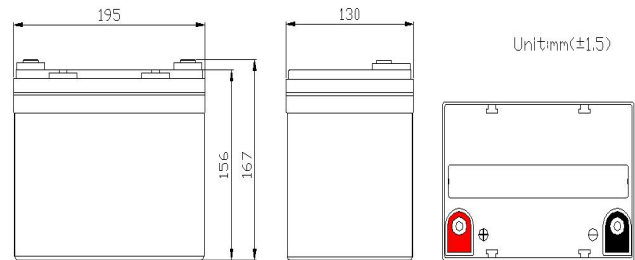
### Features

- ◆ 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



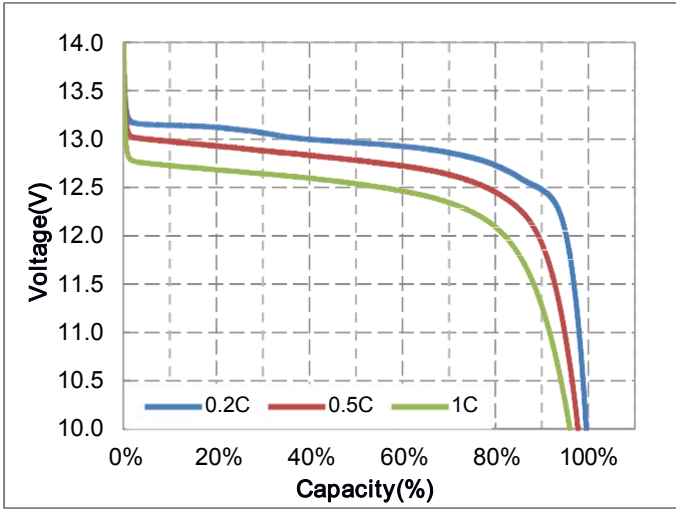
### General Specification

|                            |                           |  |
|----------------------------|---------------------------|--|
| Electrical Characteristics | Nominal Voltage           | 12.8V  |
|                            | Nominal Capacity          | 33Ah@0.2C  |
|                            | Energy                    | 422.4Wh  |
|                            | Internal Resistance       | ≤55mΩ  |
|                            | 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±0.2) V   |
|                            | Charge Mode (CC/CV)       | At 0℃~45℃ temperature, charged to 14.6V at a constant current of 0.2C <sub>5</sub> A, and then,changed continuously with constant voltage of 14.6V until the current was not more than 0.02C <sub>5</sub> A. |
|                            | Charger Current           | 6.6A   |
|                            | Max.Charge Current        | 16.5A  |
| Standard Discharge         | Discharge Current         | 6.6A   |
|                            | Max. Continuous Current   | 30A  |
|                            | Max.Pulse Current         | 60A(<3S)   |
|                            | Discharge Cut-off Voltage | 10.0V  |
| Environmental              | Charge Temperature        | 0℃ to 45℃(32°F to 113°F) @60±25% Relative Humidity   |
|                            | Discharge 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             | IFR26650 N34,4S10P   |
|                            | Plastic Case              | ABS  |
|                            | Dimension(L*W*H*TH)       | (195*130*156*167) mm   |
|                            | Weight                    | Approx. 4.9Kg  |
|                            | Terminal                  | M6   |

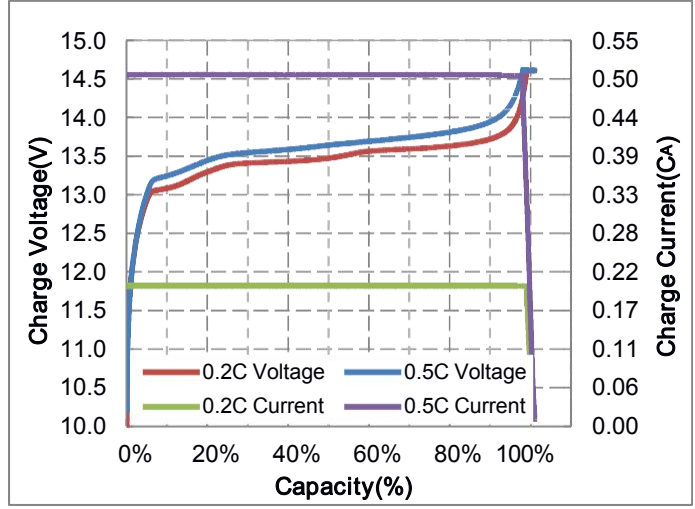
# Lithium Iron Phosphate (LiFePO<sub>4</sub>) Battery

## AJ-LFP12.8V33AH

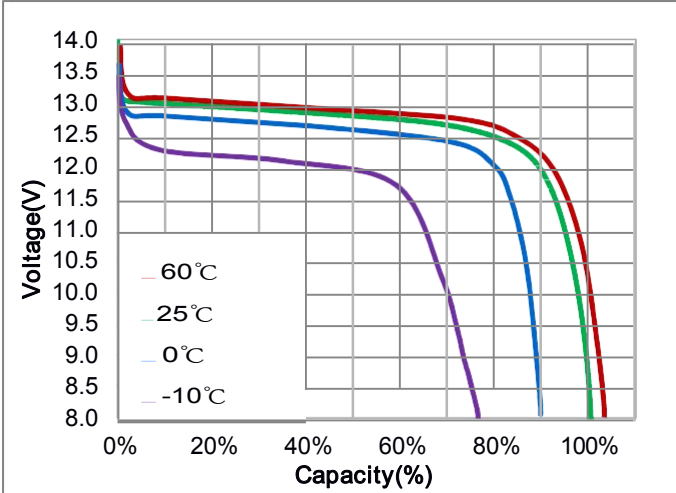
Different Rate Discharge Curve @ 25°C



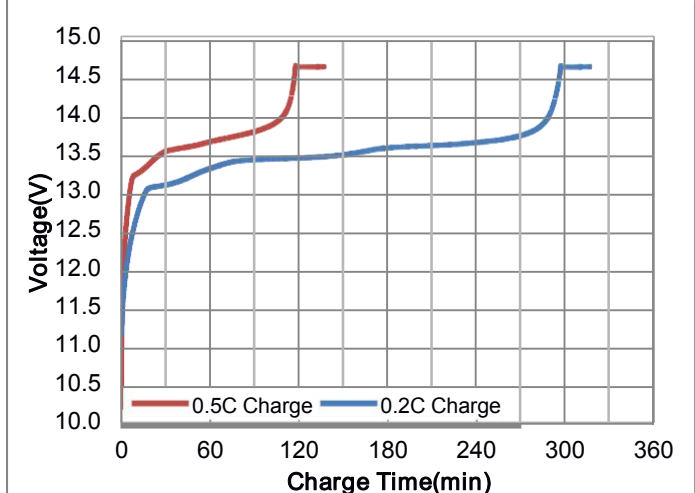
Charge Characteristics @0.2C&0.5C, 25°C



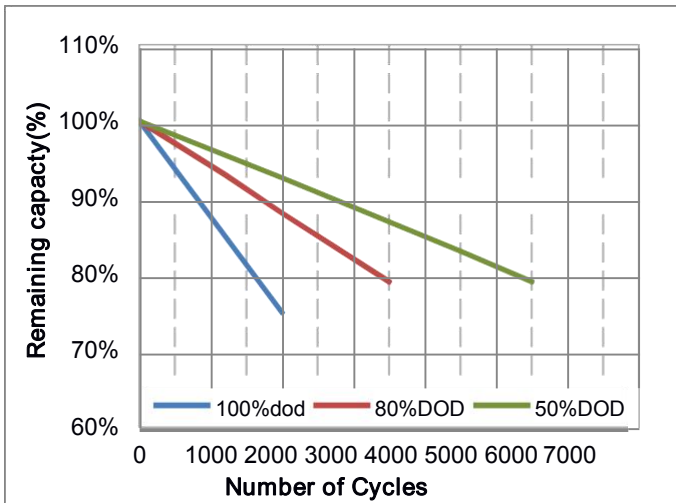
Different Temperature Discharge Curve @0.5C, 25°C



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



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



Open circuit voltage VS SOC%

