

### LITHIUM IRON PHOSPHATE BATTERY

#### ELECTRICAL SPECIFICATIONS

|                           |               |
|---------------------------|---------------|
| Nominal Voltage           | 12.8 V        |
| Nominal Capacity          | 180 Ah        |
| Capacity @ 0.2C           | >290 min      |
| Energy                    | 2304Wh        |
| Resistance                | <20 mΩ        |
| Efficiency                | 99%           |
| Self Discharge            | <3% per Month |
| Maximum Modules in Series | 4             |

#### DISCHARGE SPECIFICATIONS

|                                      |       |
|--------------------------------------|-------|
| Maximum Continuous Discharge Current | 200 A |
| Peak Discharge Current               | 400 A |
| Recommended Low Voltage Disconnect   | 11 V  |
| PCM Discharge Voltage Cut-Off        | 10 V  |
| Reconnect Voltage                    | 12 V  |
| Short Circuit Protection             | Yes   |

#### TEMPERATURE SPECIFICATIONS

|                              |              |
|------------------------------|--------------|
| Discharge Temperature        | -20 to 60 °C |
| Charge Temperature           | -20 to 60 °C |
| Storage Temperature          | -20 to 60 °C |
| PCM High Temperature Cut-Off | 80 °C        |

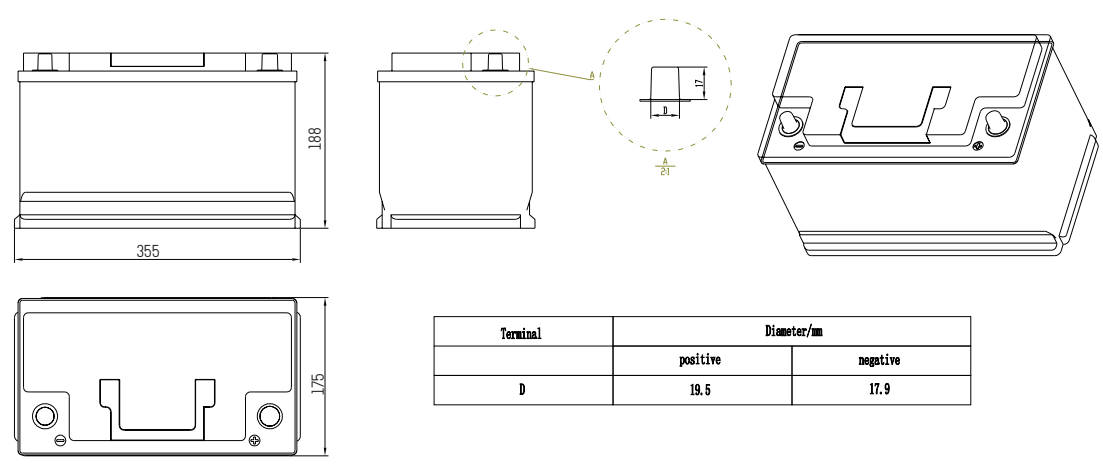
#### DIMENSIONAL SPECIFICATIONS

#### MECHANICAL SPECIFICATIONS

|                        |                     |
|------------------------|---------------------|
| Dimensions (L x W x H) | 355 x 175 x 188 mm  |
| Weight                 | 16.8 kg             |
| Terminal Type          | AP                  |
| Case Material          | ABS                 |
| Enclosure Protection   | IP65                |
| Chemistry              | LiFePO <sub>4</sub> |

#### CHARGE SPECIFICATIONS

|                            |                 |
|----------------------------|-----------------|
| Recommended Charge Current | < 50 A          |
| Maximum Charge Current     | 150A            |
| Recommended Charge Voltage | 14.2 V - 14.6 V |
| Reconnect Voltage          | 15.2 V          |
| Balancing Voltage          | 14.4 V          |
| Active Balance Current:    | 1-3A            |



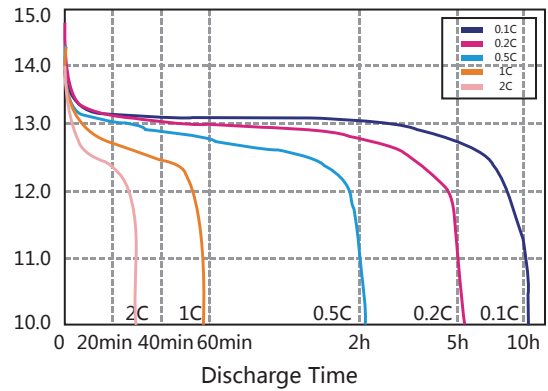
### BATTERY APP

Connect the battery via Bluetooth to your smartphone (iOS/Android).  
 The battery app will display real-time data on the interface of the app:  
 State of charge, voltage, capacity, temperature, cycle life, ...

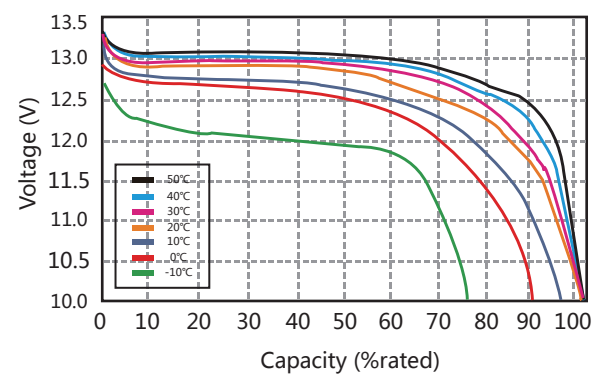


### PERFORMANCE CHARACTERISTICS

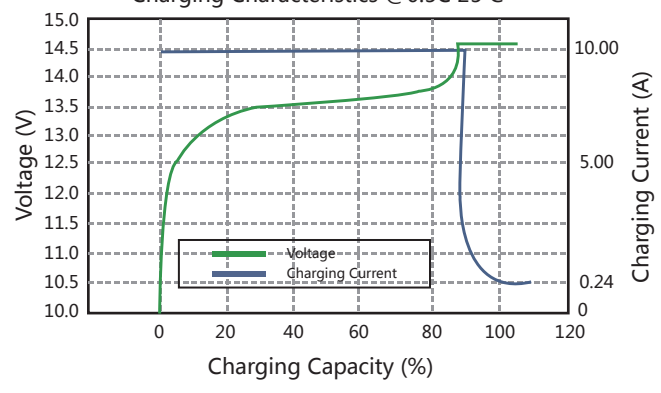
Different Rate Discharge Curve @25°C



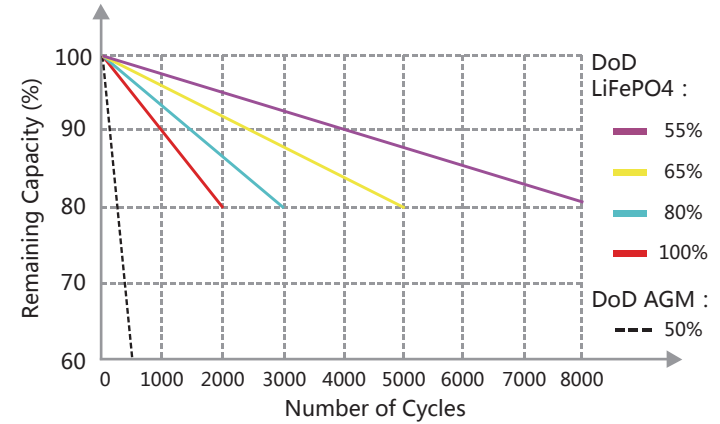
Different Temperature Discharge Curve @0.5°C



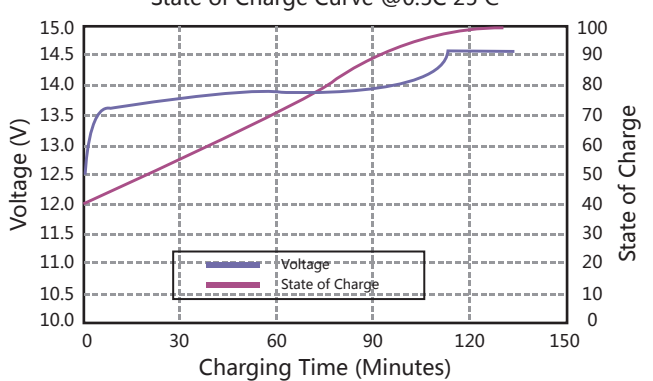
Charging Characteristics @0.5C 25°C



Different DoD Discharge Cycle Life @1C



State of Charge Curve @0.5C 25°C



Different Temperature Self Discharge Curve

