

# Lithium Battery

## LFP12100



### Features Of LiFePO4 Battery

- Ultra light weight
- High integration, small size, high energy density
- Eco-friendly clean energy
- Long lifespan sustainable
- High efficiency

### Application scenarios

- Electric vehicles, Electric mobility
- Solar/wind energy storage system
- Telecommunication
- Medical equipment
- Lighting

### Specification

|                          |                                 |
|--------------------------|---------------------------------|
| Nominal Voltage          | 12.8V                           |
| Working Voltage          | 10-14.6V                        |
| Nominal Capacity         | 100.0Ah                         |
| Energy                   | 1280 Wh                         |
| Self Discharge           | ≤3% Per Month                   |
| IP Grade                 | IP65                            |
| Positive material        | Lithium ironphosphate           |
| Cell type                | Prismatic                       |
| Combination method       | 100Ah,1P4S                      |
| Weight                   | ABOUT 10 KG                     |
| Dimension LxWxH          | L330W173H212mm                  |
| Fixed size               | NO                              |
| Terminal Type            | T11                             |
| Shell type               | ABS                             |
| Handle                   | Yes                             |
| Storage Temp. short term | -20-45°C                        |
| Storage Temp. long term  | 0-35°C                          |
| Cycle Life               | 5000 cycles                     |
| Heating function         | No                              |
| Cooling type             | No                              |
| Insulation               | 20MΩ/1000VDC,<br>@25±5°C, RH50% |
| Connection options       | Up to 4S in series              |



### Charging

|                         |        |
|-------------------------|--------|
| Recom. Charging Current | 50.0 A |
| Upper limit voltage     | 14.6V  |
| Charging Temp. Range    | 0~45°C |

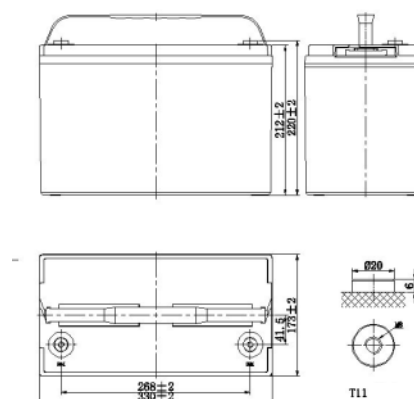
### DisCharging

|                          |            |
|--------------------------|------------|
| Max Continuous Discharge | 100.0A     |
| Max Discharge current    | 300A@170ms |
| Lower limit voltage      | 10.0V      |
| BMS Voltage Recovery     | 11.2V      |
| Discharge Temp. Range    | -20-55°C   |

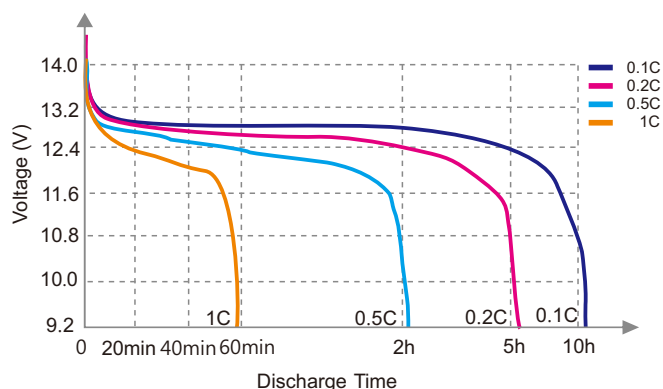
### Function (optional)

(CAN/RS485), Bluetooth, Screen, Charger

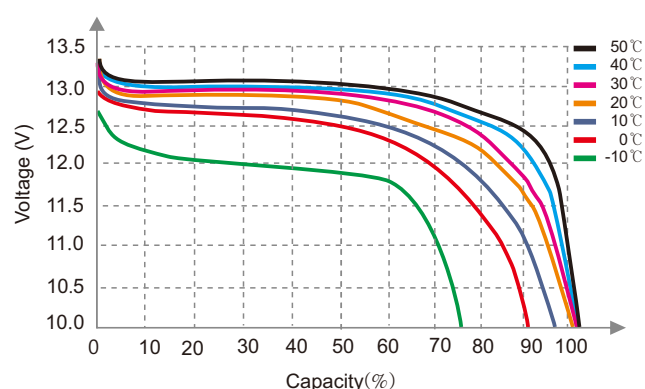
### Physical Dimension-mm



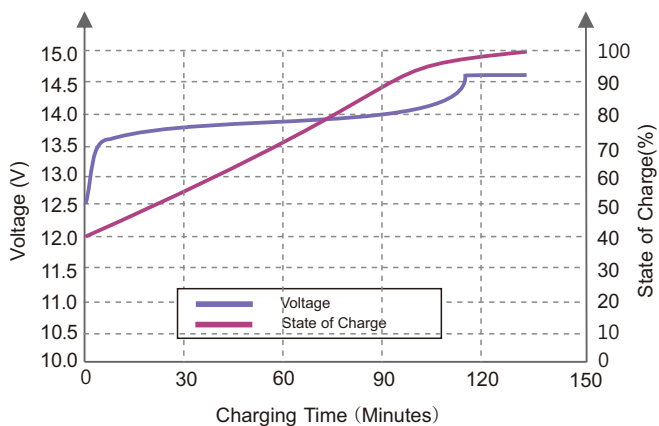
## Different Rate Discharge Curve(25°C)



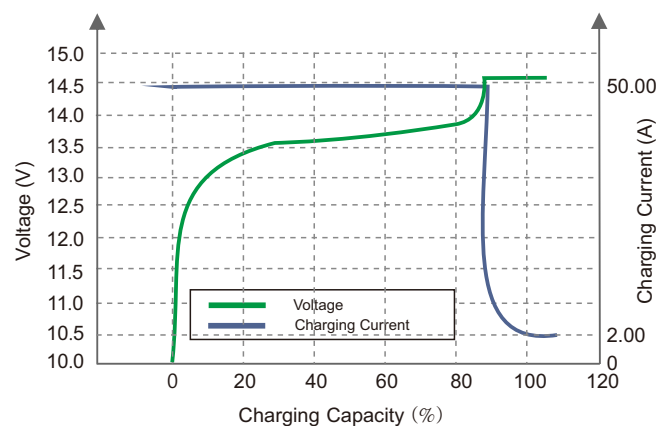
## Different Temperature Discharge Curve(0.5C)



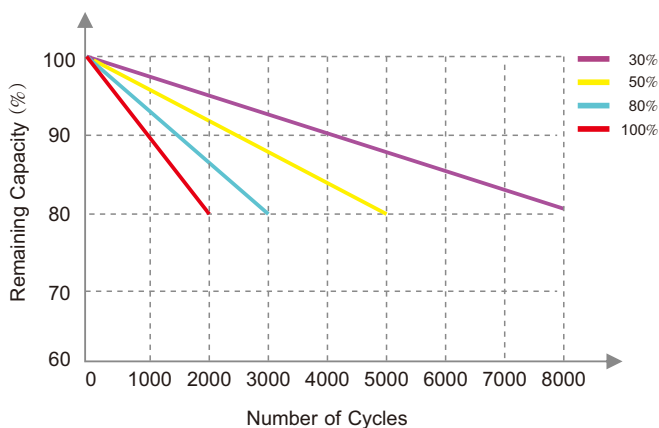
## State of Charge Curve(0.5C, 25°C)



## Charging Characteristics(0.5C, 25°C)



## Different DOD Discharge Cycle Life Curve(0.5C)



## Different Temperature Self Discharge Curve

