

Lithium Iron Phosphate Battery

Overview

The 51.2V100Ah rechargeable lithium battery is optimized for low rate application which requires high energy density.

Features

- LiFePO4 battery, more stable and safe .
- Intelligent BMS equipped inside to maintain the battery always work at best condition .
- Max charge and discharge current as 100A which is specially designed for solar energy .
- Excellent standby self-consumption as low as 4mA .
- Automatically output cut off after 30days no charge and discharge to ensure security , also can cut off output by manual operation .
- Within solar inverter Modbus-485 communication protocol .

Battery Specification

Nominal Characteristics

| | |
|-------------------------------------|------|
| Nominal Voltage /V | 51.2 |
| Nominal Capacity /Ah (25° C , 0.2C) | 100 |

Mechanical characteristics

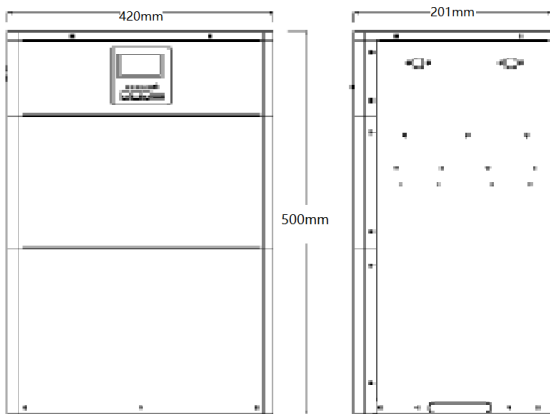
| | |
|-------------------------|-------------|
| Weight (approximate)/Kg | 46.0 |
| Dimension L*W*H /mm | 420*201*500 |
| Terminal | M8 |

Electrical characteristics

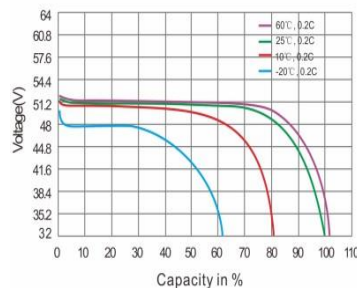
| | |
|-----------------------------------|--------------|
| Voltage window/V | 44.8 to 58.4 |
| Float charge voltage/V | 56.0 |
| Max. continue discharge current/A | 150 |
| Max. pulse discharge current/A | 100A 30Sec. |
| Max. continue charge current/A | 50 |

Operating conditions

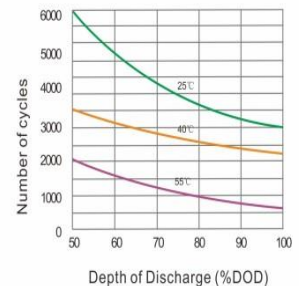
| | |
|---------------------------------|-----------------------------------------------|
| Cycle life (+25°C 0.2C 100%DOD) | > 5000 Cycles |
| Operating temperature | Discharge -10°C to 50°C Charge 0°C to 50°C |
| Storage temperature | 0 to 30°C |
| Storage duration | 6 months at 25°C |
| Safety standard | UN38.3,MSDS |
| IP Degree | IP20 |



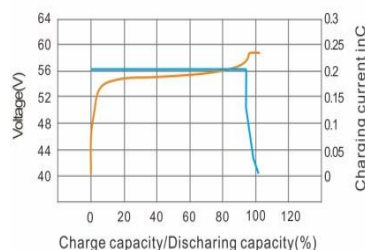
Dis charge curves under diffemet temperatures



Cycle life versus DOD and temperature at0.2C



0.2C CC-CV charge characteristic



Self-discharge characteristic

