

# Lithium Iron Phosphate Battery

## Overview

The 51.2V200Ah rechargeable lithium battery is optimized for low rate application which requires high energy density.

## Features

- BYD 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 200A 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)	200

### Mechanical characteristics

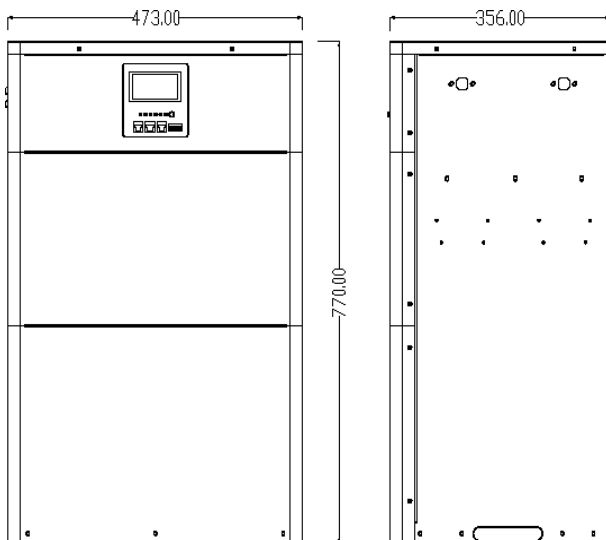
Weight (approximate)/Kg	143.0
Dimension L*W*H /mm	1000*188*734
Terminal	M8

### Electrical characteristics

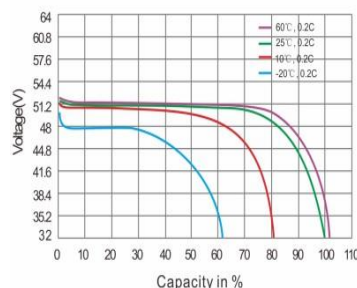
Voltage window/V	44.8 to 58.4
Float charge voltage/V	56.0
Max. continue discharge current/A	150
Max. pulse discharge current/A	200A 30Sec.
Max. continue charge current/A	100

### Operating conditions

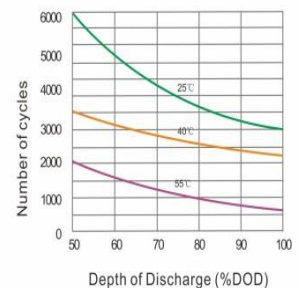
Cycle life (+25°C 0.2C 100%DOD)	> 5000 Cycles
Operating temperature	Discharge -10°C to 50°C Charge 0°C to 50°C
Storage temperature	0 to 30°C
Storage duration	6 months at 25°C
Safety standard	UN38.3,MSDS
IP Degree	IP20



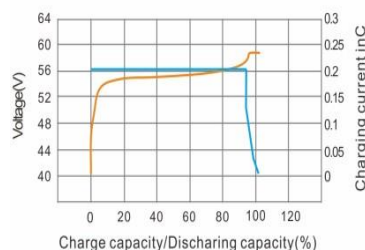
Dis charge curves under diffemet temperatures



Cycle life versus DOD and temperature at 0.2C



0.2C CC-CV charge characteristic



Self-discharge characteristic

