CREPOWER

# Lithium Iron Phosphate Battery

## Overview

The 51.2V138Ah rechargeable lithium battery is optimized for low rate application which reqiures high energy density.

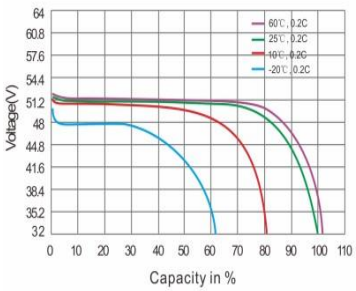
## Features

- 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 138A 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 .

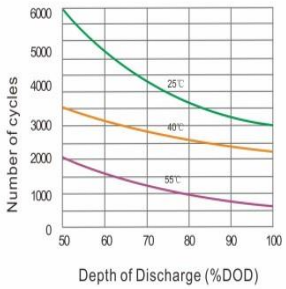
## Battery Specification

| | |
|---|---|
| **Nominal Characteristics** | |
| Nominal Voltage /V | 51.2 |
| Nominal Capacity /Ah (25° C , 0.2C) | 138 |
| **Mechanical characteristics** | |
| Weight (approximate)/Kg | 32.0 |
| Dimension L*W*H /mm | 1172*968*65 |
| Terminal | M8 |
| **Electrical characteristics** | |
| Voltage window/V | 44.8 to 58.4 |
| Float charge voltage/V | 56.0 |
| Max. continue discharge current/A | 100 |
| Max. pulse discharge current/A | 138A 30Sec. |
| Max. continue charge current/A | 100 |
| **Operating conditions** | |
| Cycle life (+25℃ 0.2C 100%DOD) | > 6000 Cycles |
| Operating temperature | Discharge -10℃ to 50℃<br>Charge 0℃ to 50℃ |
| Storage temperature | 0 to 30℃ |
| Storage duration | 6 months at 25℃ |
| Safety standard | UN38.3,MSDS |
| IP Degree | IP20 |

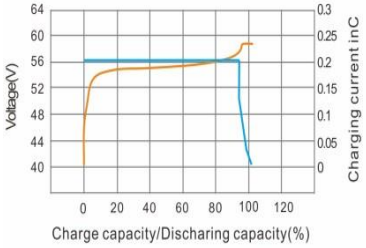
Dis charge curves under differnet tempertatures



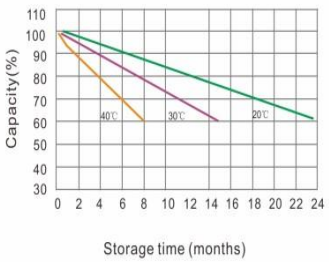

Cycle life vervus DOD and temperture at0.2C




0.2C CC-CV charge charavteristic




Self-discharge characteristic




## BYD Blade Cell

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