

## LiFePO4 - 12V 20Ah

## JB-LFP12-20CC

## Dimension (with case)

|        |       |
|--------|-------|
| Length | 181mm |
| Width  | 77mm  |
| Height | 175mm |
| Weight | 3,2Kg |



## Electrical Specification

|                  |             |
|------------------|-------------|
| Nominal voltage  | 12V (12,8V) |
| Nominal capacity | 20Ah        |
| Energy           | 256Wh       |
| Resistance       | ≤ 150mΩ     |
| Self discharge   | <3% / month |
| Efficiency       | 99%         |

## Mechanical Specifications

|                      |           |
|----------------------|-----------|
| Terminal type        | Screw M5  |
| Case material        | ABS       |
| Enclosure protection | IP65      |
| Cell type            | prismatic |

## Charge Specifications

|                               |              |
|-------------------------------|--------------|
| Recommend charge current      | 4-10A        |
| Max. charge current           | 20A          |
| BMS charge voltage cut-off    | 14,6V        |
| Reconnect voltage             | 14,2 - 14,5V |
| Balancing current             | 20mA         |
| Balancing voltage             | 3,5V         |
| Charge current (-20 to -10°C) | ≤ 0,05C      |

## Discharge Specifications

|                           |            |
|---------------------------|------------|
| max. cont discharge       | 20A        |
| peak discharge current    | 3 sec. 40A |
| BMS discharge current     | 3 sec. 40A |
| recommend cut-off voltage | 10-11V     |
| BMS discharge cut-off     | 9,2V       |
| short circuit protection  | 200-600 μs |

## Temperature Specifications

|                       |             |
|-----------------------|-------------|
| Discharge temperature | -20 to 60°C |
| Charge temperature    | 0 - 45°C    |
| Storage temperature   | -20 to 40°C |
| BMS high temperature  | 80°C        |
| Reconnect temperature | 50°C        |

## Connection information

|                        |   |
|------------------------|---|
| max. modules in series | 2 |
| max. modules parallel  | 4 |

## Features &amp; Benefits

- \* High cycle life: >1000 times @ 80% DOD for effectively lower cost of ownership
- \* Built-in BMS Protection: Battery Management System are incorporated to protect battery from over charging / over discharging / short circuit
- \* Light weight: Dry power lithium batteries has higher energy density wh/kg also being up to 1/3 of SLA battery
- \* Wide operating temp. range: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C

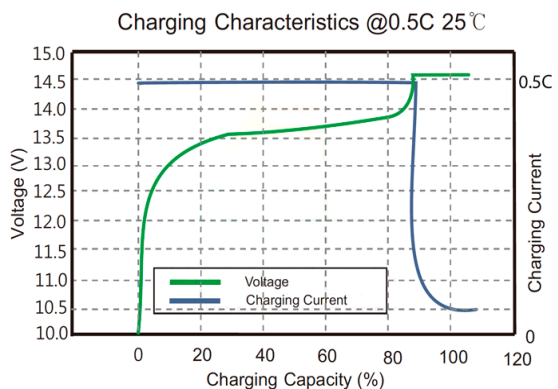
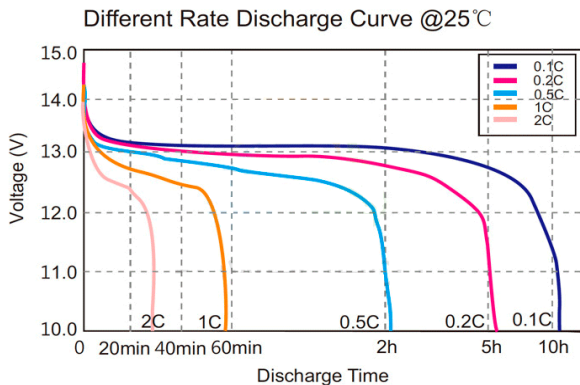
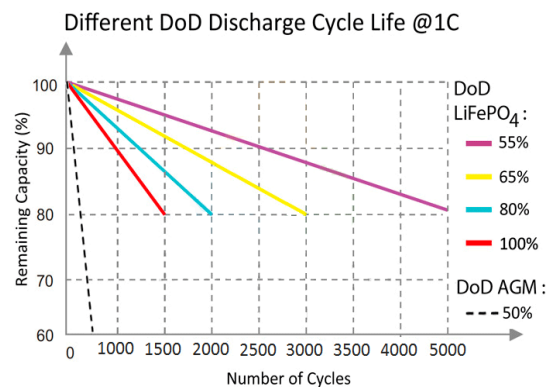
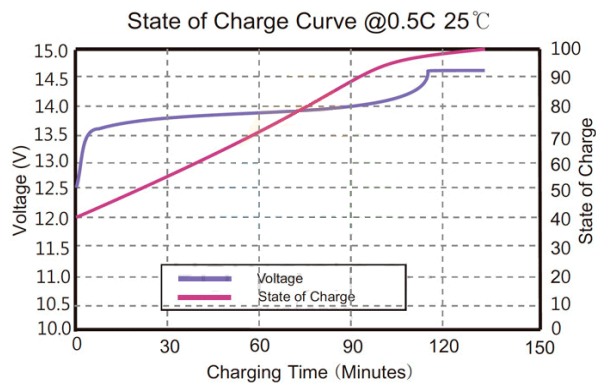
## Suitable applications

\* Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL or AGM type batteries.

\* Lead acid or gel batteries can be easily replaced by LiFePO4 batteries.  
LiFePO4 in 4S = 12.8 V and 8S = 25.6 V is close to lead-acid equivalents.

\* Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

## Performance characteristics



## Cautions

- Do NOT expose the battery to water
- Do NOT expose the battery to fire & high temperature
- Do NOT short circuit, crush or disassemble
- Only use LiFePO4 charger
- Store at 50% capacity, recharge every 3 months.
- The storage area should be clean, cool, dry and ventilated

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