

## LiFePO4 - 12V 3Ah

## JB-LFP12-3C

## Dimension (with case)

Length	80mm
Width	38mm
Height	70mm
Weight	0,44kg



## Electrical Specification

Nominal voltage	12V (12,8V)
Nominal capacity	3Ah
Energy	38,4wh
Resistance	≤ 200mΩ
Self discharge	<3% / month
Efficiency	99%

## Mechanical Specifications

Terminal type	cable
Case material	PVC
Cell type	cylindrical
	IFR18650-4S2P

## Charge Specifications

Recommend charge current	5A
Max. charge current	10A
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	10A
peak discharge current	2 sec. 20A
BMS discharge current	2 sec. 20A
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	1
max. modules parallel	4

## Other customise service

charge/discharge current, OEM, size

## 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

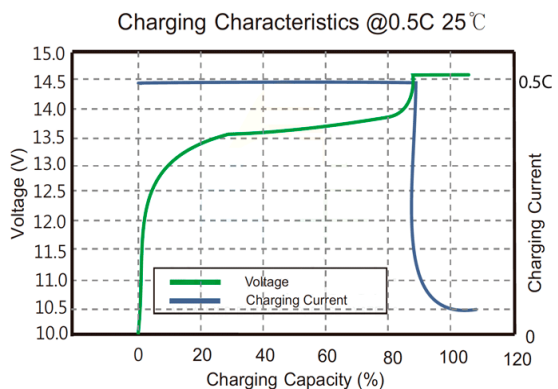
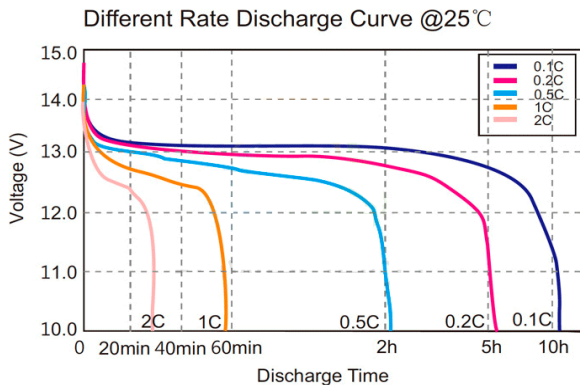
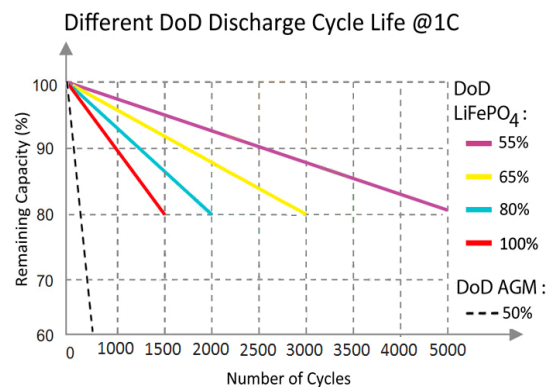
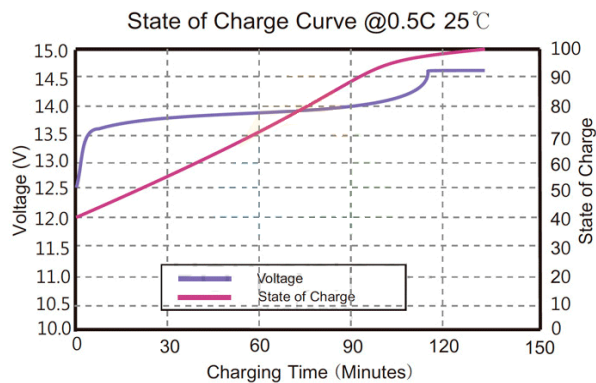
## Suitable applications

\* 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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