

LiFePO4 - 12V 100Ah

JB-LFP12-100CC

Dimension (with case)

Length	330mm
Width	175mm
Height	220mm
Weight	10,5kg



Electrical Specification

Nominal voltage	12V (12,8V)
Nominal capacity	100Ah
Energy	1280Wh
Resistance	≤ 20mΩ
Self discharge	<3% / month
Efficiency	99%

Mechanical Specifications

Terminal type	M8 Screw
Case material	ABS
Enclosure protection	IP65
Cell type	prismatic

Charge Specifications

Recommend charge current	20-25A
Max. charge current	100A
BMS charge voltage cut-off	14,6V
Reconnect voltage	14,2 - 14,5V
Balancing current	2A
Balancing voltage	3,5V
Charge current (-20 to -10°C)	≤ 0,05C

Discharge Specifications

max. cont. discharge	200A
peak discharge current	250A
BMS discharge current	500A±100A (10mS)
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

Other customise service

Smart function: RS485/RS232/Canbus

Features & 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

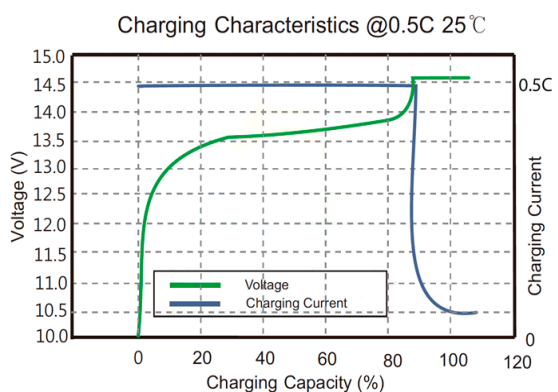
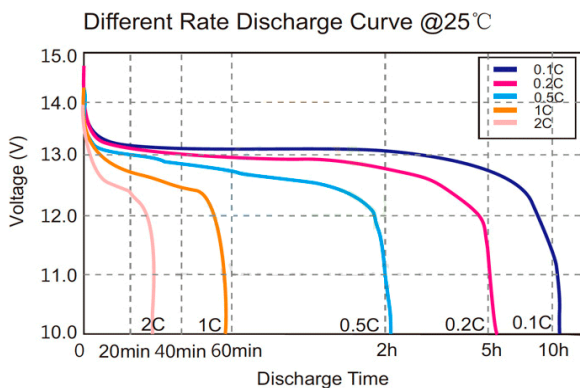
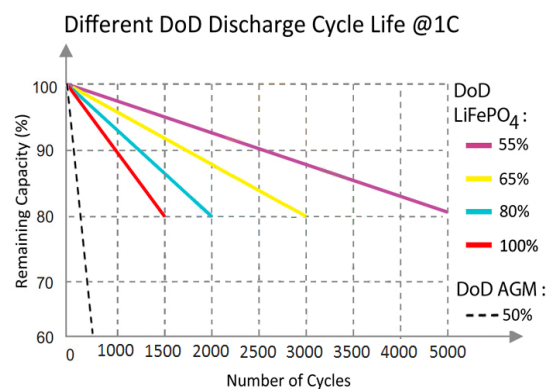
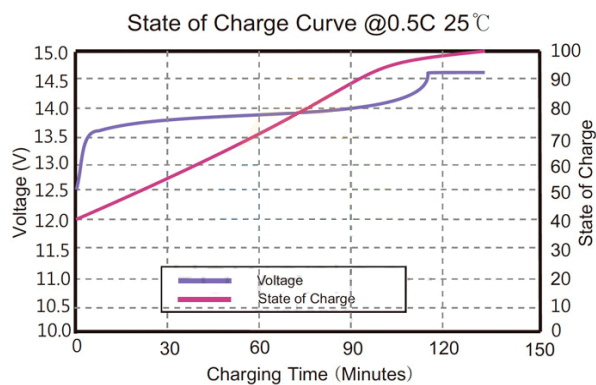
Suitable applications

* 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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