LiFePO4 Datasheet



LiFePO4 - 12V 150Ah mit Bluetooth

JB-LFP12-150CCB150-WS

Dimension (with case)	
Length	355mm
Width	175mm
Heigth	189mm
Weight	16kg

Electrical Specification	
Nominal voltage	12V (12,8V)
Nominal capacity	150Ah
Energy	1920WH
Resistance	≤ 5mΩ
Self discharge	<2% / month
Efficiency	99%

Charge Specifications	
Rated Charge Current	75A
Max. charge current	150A
BMS charge voltage cut-off	14,6V
Reconnect voltage	14,2 - 14,5V
Balancing current	100mA
Balancing voltage	>13,6V

Temperature Specifications			
Operation temperature	-20°C to 60°C		
Charge temperature	0 - 45°C		
Storage temperature	-40°C to 60°C		

Mechanical Specification	ons
Terminal type	M8 Screw
Case material	ABS
Enclosure protection	IP65
Cell type	Square LFP 50Ah
Discharge Specification	IS
Rated Discharge Current	150A
peak discharge current	600A (5s)
short circuit current	apx. 1200A
recommend cut-off voltage	ge 10-11V

Connection information	
max. modules in series	4
max. modules parallel	4

>10V

Min. discharge cut-off

Certificatiosn
CE/UN38.3/UL1642/IEC62619
Transport Appraisal UN3480, CLASS 9

Features & Benefits * High cycle life:

*	Built-	in	BMS	Protection:	

* Light weight:

* Wide operating temp. range

>1000 times @ 80% DOD for effectively lower cost of ownership Battery Management System are incorporated to protect battery from over charging / over discharging / short circuit Dry power lithium batteries has higher energy density wh/kg is 3 times of SLA battery 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





100 DoD LiFePO₄ : Remaining Capacity (%) 55% 90 65% 80% 80 100% 70 DoD AGM : **- - -** 50% 60 1000 1500 2000 2500 3000 3500 4000 5000 0 Number of Cycles

Different DoD Discharge Cycle Life @1C





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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