Reliable Power Expert

LFP12 - 100EV(12V100Ah) Specification

Features

Cost Effectiveness

Lithium
VRLA

Longer Service Life

≥ 2000 cycles

Guaranteed Safety

BMS

Fast Charge

Drop-in Replacement

Technical Characteristics

NORMINAL CHARACTERISTICS	
Nominal Voltage	12.8 V
Nominal Capacity	100 Ah (1P4S)
Energy	1280 Wh
IR	≤25mΩ@100%SOC
Efficiency	≥99.5%
Maximum Modules in Series	4

CHARGE & DISCHARGE CHARACTERISTICS	
Voltage Window	10.4-14.6V
Max. Continuous Charge Current	50 A
Max. Continuous Discharge Current	100 A
Peak Discharge Current	110 A（5 s±2 s）

OPERATING CONDITIONS	
Cycle Life	≥2000
Operating Temperature	Charge: 0℃~45℃
	Discharge:-20℃~60℃
Storage Temperature	-10℃ ~ 30℃
Storage Duration	12 months at 25℃
Heating Function	/

MECHANICAL CHARACTERISTICS	
Case Material	ABS
Dimension（L*W*H）	330.3* 173.4 *215.6
Weight	约 10.5 Kg
Terminal Type	M6
IP Grade	65
BCI Group NO.	
Cell Type-Chemistry	LiFePO4

BMS CHARACTERISTICS	
Primary Charging Protection	Current: 60 A
	Delaytime:1000ms
Secondary Charging Protection	Current: /
	Delaytime: /
Primary Discharging Protection	Current: 110A
	Delaytime: 5 s± 2 s
Secondary Discharging Protection	Current: /
	Delaytime: /
Over-charge Voltage Protection	Voltage:14.6 ~14.8V
	Delaytime:500ms
Over-discharge voltage protection	Voltage: 10.2V
	Delaytime:500ms
Temperature Protection	PCB temperature≥90℃
	Recover≤80℃
Communicating Function	/

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Constant Current Discharge Data（Amperes@25℃）

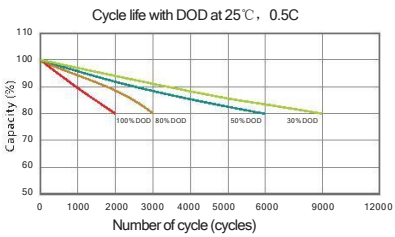
	1h	2h	3h	4h	5h
Cut-off voltage (10.4V)	100A	50A	34A	25A	20A

Constant Power Discharge Data（Watt@25℃）

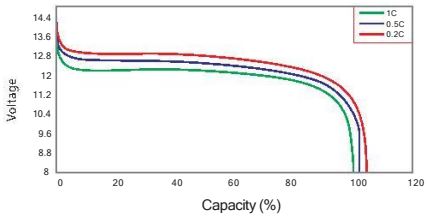
	1h	2h	3h	4h	5h
Cut-off voltage (10.4V)	1280W	640W	427W	320W	256W

Cycle No.Vs DOD%

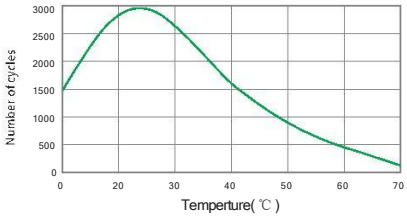
Number of Cycles Vs. DOD



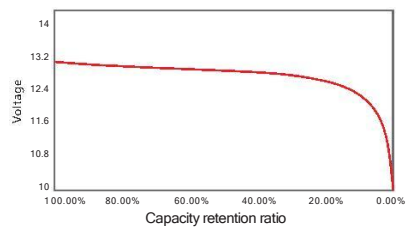
Discharge Performance at R.T.



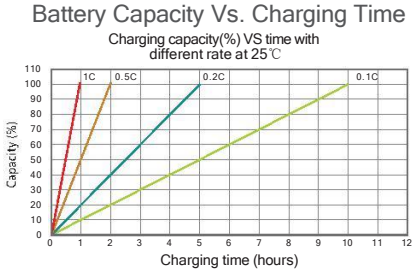
Cycle Life in Relation to Temperature



Battery Capacity (C) Vs. Open Circuit Voltage (OCV)



Battery Capacity Vs. Charging Time



Temperature Effects on Capacity