

Solar Home Li Ion Battery Energy Storage System Mounted Type

LFP 51.2V-100Ah



Features

Cost Effectiveness



Longer Service Life



Guaranteed Safety



Fast Charge



Drop-in Replacement



Technical Characteristics

Nominal Characteristics	
Nominal Voltage	51.2V
Nominal Capacity	100Ah (1P16S)
Energy	5120 Wh
IR	≤ 30mΩ@100%SOC
Efficiency	≥98%
Maximum Modules in Series	1

Charge & Discharge Characteristics	
Voltage Window	43.2 - 57.6V
Max. Continuous Charge Current	50 A
Max. Continuous Discharge Current	100A
Peak Discharge Current	120A(5s±2s)

Operating Conditions	
Cycle Life	≥3000
Operating Temperature	Charge : 0 C~60 C Discharge : -20 C~60 C
Storage Temperature	-20 C ~ 30 C
Storage Duration	12 months at 25 C
Heating Function	/

Mechanical Characteristics	
Case Material	SPCC
Dimension (W x D x H)	500 x 217 x 550 (mm)
Weight	55Kg
Terminal Type	M6
IP Grade	21
BCI Group NO	/
Cell Type-Chemistry	LifeP04

BMS Characteristics	
Primary Charging Protection	Current : 80A Delaytime : 1000ms
Secondary Charging Protection	Current : 100A Delaytime : 500ms
Primary Discharging Protection	Current : 110A Delaytime : 5 s±2s
Secondary Discharging Protection	Current : 120A Delaytime : 5 s±2s
Over-charge Voltage Protection	Voltage : 57.6-58.4V Delaytime : 500ms
Over-discharge voltage protection	Voltage : 43.2 V Delaytime : 500ms
Temperature Protection	PCB temperature ≥95 C Recover ≤85 C
Communicating Function	RS485 CAN

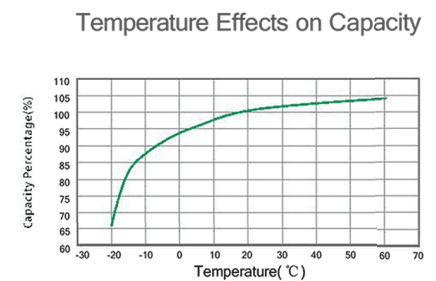
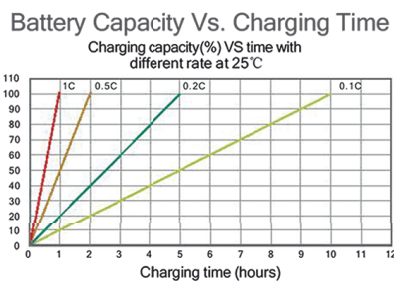
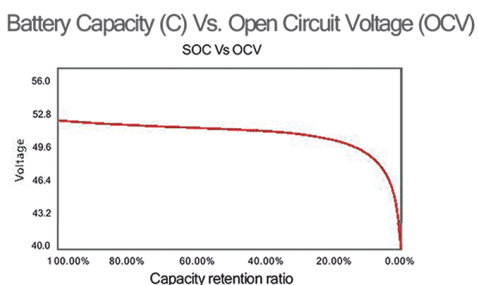
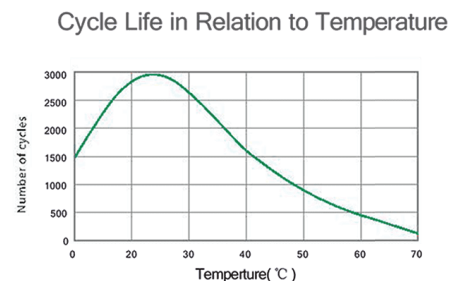
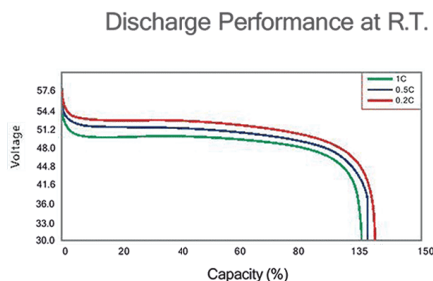
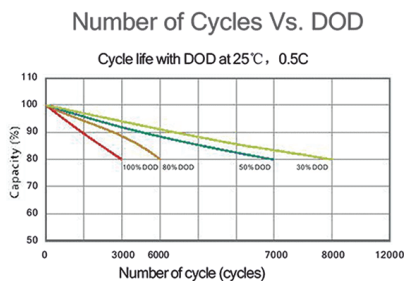
Constant Current Discharge Data (Amperes @ 25 °C)

	1H	2H	3H	4H	5H
Cut-Off Voltage (44.8V)	100A	50A	34A	25A	20A

Constant Power Discharge Data (Watt @ 25 °C)

	1H	2H	3H	4H	5H
Cut-Off Voltage (44.8V)	5120W	2560W	1707W	1280W	1024W

Cycle No. Vs DOD%



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