



BATTERY SPECIFICATIONS

Battery type-Chemistry	LiFePO4	Voltage Window	43.2V-58.4V
Nominal Voltage	51.2V	Recommend Charge Voltage	57.6V
Nominal Capacity	100Ah	Max Charge Voltage	58.4V
Energy Density	5120Wh	Recommend Charge Current	20A
Dimensions(LxWxH)	625*420*154mm	Max Continuous Current	100A
Weight	47KGS	Recommend Discharge Voltage	44.8V
Terminal Type	Plug-in	Max Discharging Voltage	43.2V
Terminal Torque	8.5NM	Max Continuous Discharge Current	100A
Case Material	SPCC	Peak Discharge Current	150A
BMS build-in	Yes	Cycle Life(0.2C, 25°C@80% DOD)	6000 Cycles
AH Efficiency – round trip	>98%	Discharge Temperature	(- 20 to 55)°C
Self Discharge per Month	<3%	Charge Temperature	(0 to 55)°C
Max in Parallel	16PCS	Storage Temperature	(- 20 to 45)°C
Max in Series	Not Allowed	Bluetooth(App)	Optional
LCD Screen	Optional	Heating Function	Optional

BMS CHARACTERISTICS

Primary Charging Protection	Current :105A	Delay Time: 20s
Second Charging Protection	Current :110A	Delay Time: 2~3s
Primary Discharging Protection	Current :110A	Delay Time: 10s
Second Discharging Protection	Current :150A	Delay Time: 100ms
Over charge Voltage Protection	Voltage :59.2V	Delay Time: 1~2s
Over Discharge Voltage Protection	Voltage :43.2V	Delay Time: 1~2s
Temperature Protection	PCB Temperature≥95 °C Recover≤85 °C	
Communication Port	Major RS485, optional for CAN / Dry port, customized acceptable	

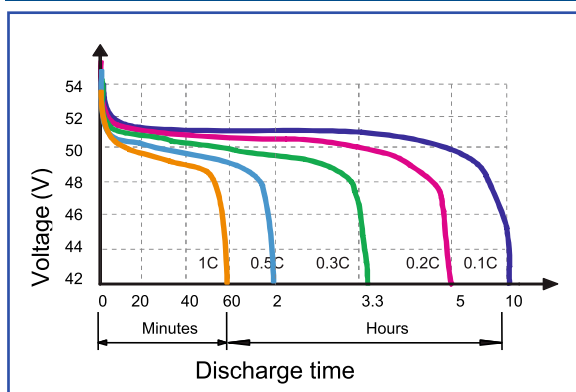
Constant Current Discharge Data (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (44.8V)	100A	50A	33.3A	25A	20A	10A	5A

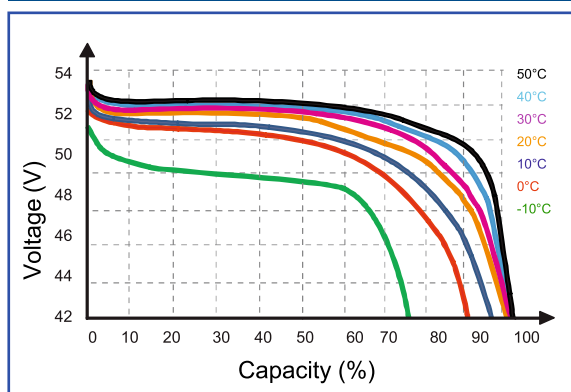
Constant Power Discharge Data (Watts @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (44.8V)	5120W	2560W	1706.7W	1280W	1024W	512W	256W

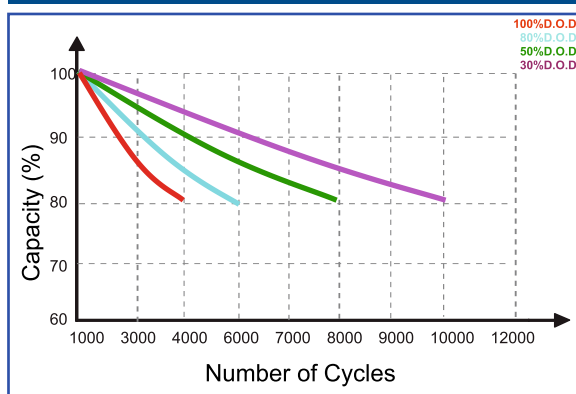
Discharge characteristics (25°C)



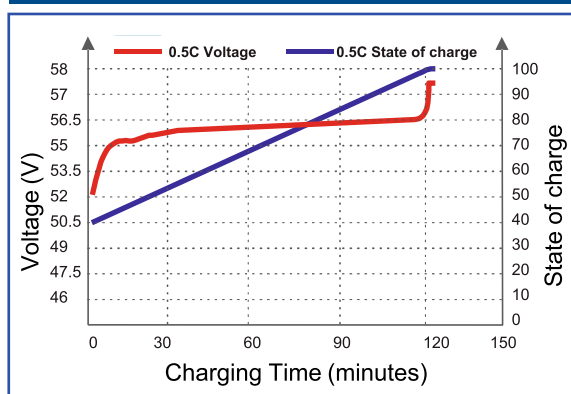
Different Temperature Discharge Curve (0.5C)



Different DOD Discharge cycle life Curve 0.2C 25°C



State of Charge Curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity/

Note 3: Parallel connection is only for longer backup time, not for larger output power.