



2560Wh Nominal Energy

**100Ah** Nominal Capacity

25.6V Nominal Voltage

**50A** Max Charge Current





## **BMS OPERATION**

Typical Charging Current	50A
Maximum Charging Current	50A
Typical Discharge Current	50A
Max Discharge Current	100A
Maximum Charge Voltage(CC/CV)	28.8V
Over Charge Protection	
Voltage(Cell)	3.65V±0.05V
Delay Time	2000ms±1000ms
Recovery Voltage(Cell)	3.55V±0.05V
Over Discharge Protection	
Voltage(Cell)	2.50V±0.10V
Delay Time	2000ms±1000ms
Recovery Voltage(Cell)	3.00V±0.10V
Over Discharge Protection	Charging reaches
Release Conditions	recovery voltage
Over-Current Charge	
Primary Charge Over Current Protection Val	ue 120A±10A
First Stage Charge Over Current Delay	10S±3S
Over-current Charge Release Conditions	Automatic recover
	after a delay of 32S
Over-Current Discharge	
Primary Discharge Over Current Protection	Value 120A±10A
Primary Discharge Over Current Protection I	Delay 10S±3S
Secondary Discharge Over Current	300A±60A
Protection Current Value	
Secondary Discharge Over Current	50ms~400ms
Protection Delay	
Over-current Discharge Release	Automatic recover
	after a delay of 32S
Short Circuit Protection Delay Time	70µs~1500µs
Short Circuit Protection Recovery Reco	ver by releasing load
af	ter approximately 5s
Discharge High Temperature Protection	
Temperature Protection Value	65°C±5°C
Temperature Protection Release Value	60°C±5°C
Low Temperature Protection Of Discharge	
Temperature Protection Value	-20°C±5°C
Temperature Protection Release Value	-10°C±5°C
Charging High Temperature Protection	
Temperature Protection Value	55°C±5°C
Temperature Protection Release Value	50°C±5°C
Charging Low Temperature Protection	
Temperature Protection Value	5°C±5°C
Temperature Protection Release Value	10°C±5°C
	10 0=5 0

High Temperature Protection Of Fet(Built-i	n)	
Temperature Protection Value	110°C±5°C	
Temperature Protection Release Value	85°C±5°C	
Balance Function		
Equalizing Opening Voltage	3.45V±0.05V	
Equalize The Opening Pressure Difference	20mV	
Min Balance Current	20mA	
Max Balance Current	70mA	
Storage Temperature	Passive equalization	
Heating Function	200W	

## **SPECIFICATIONS**

Battery Type	LFP Battery
Nominal Voltage	25.6V
Nominal Capacity	100Ah
Minimum Capacity	100Ah
Nominal Energy	2560Wh
Charging Voltage	28.8V
Discharging Cutoff Voltage	22.4V
Standard Charging Current	50A
Maximum Charging Curren	t 100A
Standard Discharge Curren	t 50A
Continuous Discharge Curr	ent 100A
Maximum Discharge Currer	nt 100A
Shell Material	Plastic Shell
Weight	48.50lb
Initial AC (1000HZ) Interna	I Resistance ≤50mΩ
Monthly Self-Discharge Rat	te ≤5%
Overall Dimensions	20.9x8.1x8.5in
Cycle Life(Times)(25°C±2°C)	7000; Capacity Retention≥80%
Charging Temperature	
(0°C~10°C)	30A
10°C~20°C	50A
20°C~40°C	50A
40°C~55°C	30A
Discharge Temperature	-20°C~60°C (The surface temperature
	of the cell should not exceed 60°C)
	-30°C~55°C 90%RH Max
Storage Temperature	(Less than 1 month)
	-10°C~45°C 90%RH Max
	(More than 3 months)
Recommended	-10°C~35°C 85%RH Max
Storage Temperature	(Battery life decreases when
	stored in high temperature)