

ALPHA 2

Lithium Iron Phosphate Battery

2560Wh

Nominal Energy

200Ah

Nominal Capacity

12.8V

Nominal Voltage

100A

Max Charge Current



FEATURES



Internal heat technology



Longevity of service



Real-Time Monitoring

Monitors the battery operation status on mobile devices in real time with the built-in Bluetooth module



IP65 waterproof and dustproof



Flame retardant rating: UL94 V-0 (Plastic shell)



Green energy without metal contaminant



Extremely high number of charge / discharge cycles



Light weight, small size



In the extreme performance safety test, the battery will not catch fire, explode, or leak, and will be safer to use



Sophisticated Battery Management System (BMS)

BMS OPERATION

BMS OPERATION	
Typical Charging Current	50A
Maximum Charging Current	100A
Typical Discharge Current	50A
Max Discharge Current	100A
Maximum Charge Voltage(CC/CV)	14.4V
Over Charge Protection	
Voltage(Cell)	3.65V±0.05V
Delay Time	2000ms±1000ms
Recovery Voltage(Cell)	3.55V±0.10V
Over Discharge Protection	
Voltage(Cell)	2.50V±0.10V
Delay Time	2000ms±1000ms
Recovery Voltage(Cell)	3.00V±0.10V
Over Discharge Protection	Voltage self-recovery or
Release Conditions	charge recovery
Over-Current Charge	
Primary Charge Over Current Protection	value 110A±5A
First Stage Charge Over Current Delay	10S±3S
Over-current Charge Release Conditions	s Automatic recover
	after a delay of 32S
Over-Current Discharge	
Primary Discharge Over Current Protect	ion Value 110A±5A
Primary Discharge Over Current Protect	ion Delay 10S±3S
Secondary Discharge Over Current	350A±90A
Protection Current Value	
Secondary Discharge Over Current	300ms±200ms
Protection Delay	
Over-current Discharge Release	Automatic recover
-	after a delay of 32S
Short Circuit Protection Delay Time	560μS-960μS
Short Circuit Protection Recovery	Recover by releasing load
-	after 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 Dischard	ge
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
portation recognist Release value	10 0-3 0

95°C-110°C
95°C-110°C
60°C-90°C
3.45V±0.05V
15mV
150mA
300mA
equalization
100W

SPECIFICATIONS

SPECIFICATIONS	
Battery Type	LFP Battery
Nominal Voltage	12.8V
Nominal Capacity	200Ah
Minimum Capacity	200Ah
Nominal Energy	2560Wh
Charging Voltage	14.4V
Discharging Cutoff Voltage	11.2V
Standard Charging Current	50A
Maximum Charging Current	100A
Standard Discharge Current	50A
Continuous Discharge Current	100A
Maximum Discharge Current	100A
Shell Material	Plastic Shell
Weight	48.50lb
Initial AC (1000HZ) Internal Resist	ance ≤50mΩ
Monthly Self-Discharge Rate	≤5%
Overall Dimensions	20.9x8.1x8.5in
Cycle Life(Times)(25°C±2°C) ≥	3200; Capacity Retention≥80%
Charging Temperature	
(0°C~10°C)	30A
10°C~20°C	50A
20°C~40°C	100A
40°C~55°C	30A
Discharge Temperature -20°C~	60°C (The surface temperature
of t	he 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)
°C~10°C) °C~20°C °C~40°C °C~55°C ischarge Temperature -20°C~ of ti	50A 100A 30A 60°C (The surface temperature he cell should not exceed 60°C) -30°C~55°C 90%RH Max (Less than 1 month) -10°C~45°C 90%RH Max (More than 3 months) -10°C~35°C 85%RH Max