

ALPHA 2Lithium Battery

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 rating



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, leak, and besafer to use



Sophisticated Battery Management System (BMS)

MODEL: ALPHA 2

BMS OPERATION	
Typical Charging Current	50A
Maximum Charging Current	100A
Typical Discharge Current	50A
Max Discharge Current	100A
Maximum Charger 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
•	oltage 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	Automatic recover after a delay of 32S
Over-Current Discharge	
Primary Discharge Over Current Protection	on Value 110A±5A
Primary Discharge Over Current Protection	on Delay 10S±3S
Secondary Discharge Over Current Protection Current Value	350A±90A
Secondary Discharge Over Current Protection Delay	300mS±200mS
Over-current Discharge Release	Automatic recover after a delay of 32S
Short Circuit Protection Delay Time	560µS-960µS
	cover 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 Discharg	e
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

High Temperature Protection Of Fet(Built-	in)
Temperature Protection Value	95℃-110℃
Temperature Protection Release Value	60°C-90°C
Balance Function	
Equalizing Opening Voltage	3.45V±0.05V
Equalize The Opening Pressure Difference	15mV
Min Balance Current	150mA
Max Balance Current	300mA
Equilibrium Type	Passive equalization
Heating Function	100W

SPECIFICATIONS

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Battery Type	LFP Battery
Nominal Voltage	12.8V
Nominal Capacity	200Ah
Minimum Capacity	200Ah
Nominal Energy	2560Wh
Charging Voltage	14.4V
Discharging Cutoff Volta	age 11.2V
Standard Charging Curr	ent 50A
Maximum Charging Curr	rent 100A
Standard Discharge Cur	rent 50A
Continuous Discharge C	urrent 100A
Maximum Discharge Cur	rent 100A
Shell Material	Plastic Shell
Weight	48.50lb
Initial AC (1000HZ) Inter	nal Resistance ≤50mΩ
Monthly Self-Discharge	Rate ≤5%
Overall Dimensions	20.9x8.1x8.5in
Cycle Life(Times)(25°C±2	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 the ce ll 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 temperatures.)
	mgn temperatures.)