

ALPHA 4

Lithium Iron Phosphate Battery

2560Wh

Nominal Energy

100Ah

Nominal Capacity

25.6V

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

DM3 OPERATION	
Typical Charging Current	50A
Maximum Charging Current	100A
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 Valu	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 V	/alue 120A±10A
Primary Discharge Over Current Protection D	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 Recov	ver by releasing load
aft	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

n)
110°C±5°C
85°C±5°C
3.45V±0.05V
20mV
20mA
70mA
Passive equalization
200W

CATIONS
LFP Battery
age 25.6V
acity 100Ah
pacity 100Ah
rgy 2560Wh
tage 28.8V
Cutoff Voltage 22.4V
arging Current 50A
arging Current 100A
charge Current 50A
Discharge Current 100A
scharge Current 100A
l Plastic Shell
48.50lb
00HZ) Internal Resistance ≤50mΩ
-Discharge Rate ≤5%
nsions 20.9x8.1x8.5in
mes)(25°C±2°C) ≥5000
nperature
30A
50A
50A
30A
mperature -20°C~60°C (The surface temperature
of the cell should not exceed 60°C)
-30°C~55°C 90%RH Max
perature (Less than 1 month)
-10°C~45°C 90%RH Max
(More than 3 months)
ed -10°C~35°C 85%RH Max
perature (Battery life decreases when
stored in high temperature)