N-12V100AHBL

The battery is bluetooth version with integrated passive balancer.

Features & Benefits

- **Smart BMS protection**

Smart BMS design with passive balancer.

- **New Grade A+ prismatic cells construction**

The new grade A+ prismatic cells construction ensures reliable and excellent quality.

- **Pre-charge function**

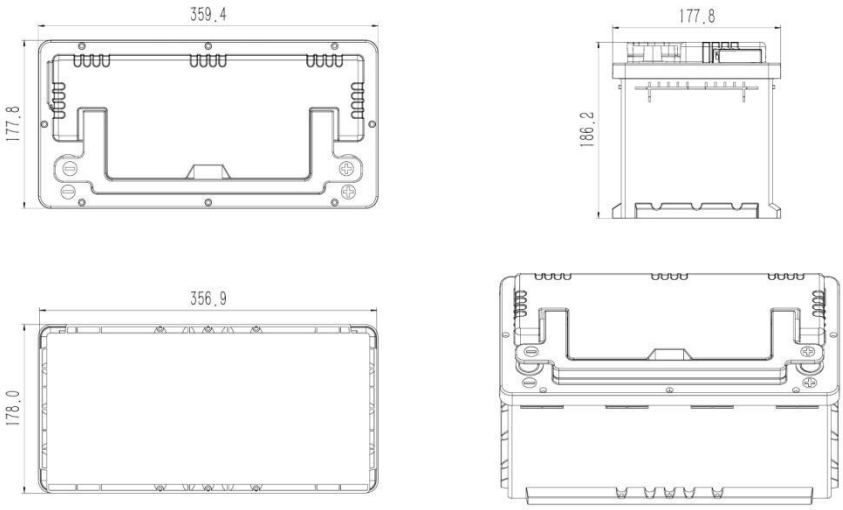
Better protections when starting with a higher power.

- **Automatic Hibernation mode to double protect battery against deep discharging**

a. If the battery has been put into hibernation mode by app which can be waken up by charging or by discharging or by app connection.

b. If no current (<0.5A) has been detected by BMS, then BMS will fall into hibernation mode when the cells voltage<3000mV and delay 10mins.

DIMENSIONAL SPECIFICATION



ELECTRICAL SPECIFICATIONS	
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @0.2C	>290 min
Energy	1280Wh
Resistance	＜10m Ω
Discharge Efficiency	>99%
Cells Self Discharge	<3% per Month
Modules Connections	4S1P

MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	357 x 176x 190mm
Weight	10kg
Terminal Type	SAE+M8
Terminal Torque	10-15N-m
Case Material	ABS

CHARGE SPECIFICATIONS	
Maximum Continuous Charge Current	100A
Recommended Charge Current	≤50A
Charge Voltage	14.2~14.6V
Charge Cut-off Voltage	14.6V (Pack)/ 3.65V (Cells)
Reconnect Voltage	14V
Cells Balancing Voltage	3.4V
Cells difference voltage value to open balancing	15mV (passive balancer)
Passive Balance current	50-100mA

DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	120A
Max. Pulse Discharge Current	170A (5S)
Discharge Cut-off Voltage	10V
Reconnect Voltage	12V
Short Circuit Protection	Yes

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4~149°F (-20 ~65℃)
Charge Temperature	32~149°F (0℃~+65℃)
Temperature Range Storage <1 month	-4~122°F (-20℃~+50℃)
Temperature Range Storage >1 month	23~104°F (-5℃~+40℃)
Temperature Protection of FET (Built-in)	194°F (90℃)

BMS CONSUMPTION	
Standby	≤4mA
Working	≤8mA
Hibernation mode	0.16mA

Hibernation Mode SPECIFICATIONS	
Eneter hibernation cells voltage (no current flow >0.5A)	<3V
Hibernation delay time	10mins