

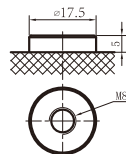
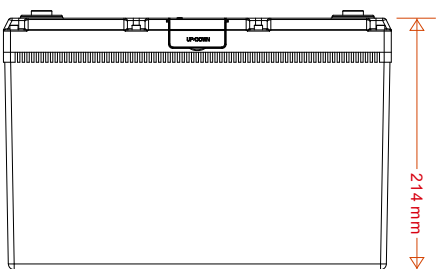
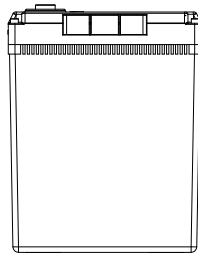
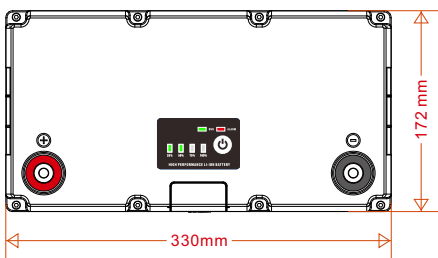
12.8V100Ah



NEW GENERATION RV BATTERY



Dimension:



Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells (104Ah).
- + Cell certification: UN38.3, ROHS, IEC62619, UL1973 and UL9540A
- + Battery certification: UN38.3, MSDS, CE
- + The cycle life over 3500 times

DESIGN

- + Detachable ABS case, better than traditional case.
- + ON/OFF Button, LED indicators for SOC, RUN and ALM.
- + IP 65 Class (G1, G2). IP30 Class (G3)
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM

- + Integrated Software BMS inside.
- + Independent protection for charge and discharge.
- + OVP, LVP, OTP, LTP, Short circuit protection.
- + Optional Parts:
 - G1: Bluetooth Module (Built-in),
 - G2: Bluetooth Module (Built-in),Heater,
 - G3: Bluetooth Module (Built-in),Heater, Bluetooth Module (External), LCD Module (External),

12.8V100Ah

SPECIFICATION

Model	LFP12.8V100AH G1	LFP12.8V100AH G2	LFP12.8V100AH G3
Cell and Connection	CB56-104Ah, 1P4S	CB56-104Ah, 1P4S	CB56-104Ah, 1P4S
Nominal Voltage [V]	12.8	12.8	12.8
Nominal Capacity [Ah]	100	100	100
Total Energy [Wh]	1280	1280	1280
Max. Charging Current [A]	100	100	100
Recommended Charging Current [A]	50	50	50
Charging Voltage [V]	14.2~14.6	14.2~14.6	14.2~14.6
Max. Discharging Current [A]	100	100	100
End of Discharge Voltage [V]	11.2	11.2	11.2
Operating Temperature Range	Charge: 0 ~ +50°C Discharge: -20 ~ +55°C	Charge: 0 ~ +50°C Discharge: -20 ~ +55°C With Heater: Charge/Discharge -20~+55°C	Charge: 0 ~ +50°C Discharge: -20 ~ +55°C With Heater: Charge/Discharge -20~+55°C
Protection	Over charge Over discharge, Over temperature, Low Temperature, Over Current, Short circuit	Over charge Over discharge, Over temperature, Low Temperature, Over Current, Short circuit	Over charge Over discharge, Over temperature, Low Temperature, Over Current, Short circuit
Cycle Life ¹	>3500 cycles	>3500 cycles	>3500 cycles
Designed Calendar Life	10 Years	10 Years	10 Years
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
Dimension (W*D*H, mm)	330*172*214	330*172*214	330*172*214
Weight [Kg]	10.5	10.5	10.5
Operation Humidity	0~95% RH (No condensing)	0~95% RH (No condensing)	0~95% RH (No condensing)
IP Class	IP65	IP65	IP30
Parallel Support ²	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets	Yes, Max. 4 Sets	Yes, Max. 4 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973; UL9540A		
Certification-Battery	UN38.3; MSDS; CE; UL2054 ³		
Optional Parts	Internal Bluetooth Module	Internal Bluetooth Module Heater	Internal Bluetooth Module Heater External Bluetooth Module External Display Module RS485-USB Device

Note:

1. 80% of initial capacity.
2. For parallel and series connection, refer to user manual.
3. UL2054 certification is under-going.

BMS Detail Information

Over-Charge Alarm & Protection

Over-Charge Alarm	3.55V (For cell) 14.0V (For pack)
Over-Charge Protection	3.7V (For cell) 14.8V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 13.8V (For pack)

Over-Discharge Alarm & Protection

Over-Discharge Alarm	2.8V (For cell) 11.2V (For pack)
Over-Discharge Protection	2.5V (For cell) 10V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 11.2V (For pack)

Over Current Alarm & Protection

Charge Over Current Alarm	60A
Charge Over Current Protection	110A
Charge Over-Current Protection Delay	15S
Charge Over Current Protection Release	Automatic release after 1min and up to 3 times or Discharge
Discharge Over Current Alarm	110A
Discharge Over Current Protection-1	115A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	120A
Discharge Over Current Protection-2 Delay	200ms
Discharge Over Current Protection Release	Automatic release after 1min and up to 3 times or Charge

Over Temperature Alarm & Protection

Charge Low Temperature Alarm	7°C
Charge Low Temperature Protection	0°C
Charge Low Temperature Protection Release	5°C
Charge High Temperature Alarm	50°C
Charge High Temperature Protection	55°C
Charge High Temperature Protection Release	45°C
Discharge Low Temperature Alarm	-10°C
Discharge Low Temperature Protection	-20°C
Discharge Low Temperature Protection Release	-17°C
Discharge High Temperature Alarm	55°C
Discharge High Temperature Protection	60°C
Discharge High Temperature Protection Release	50°C

Short Circuit Protection

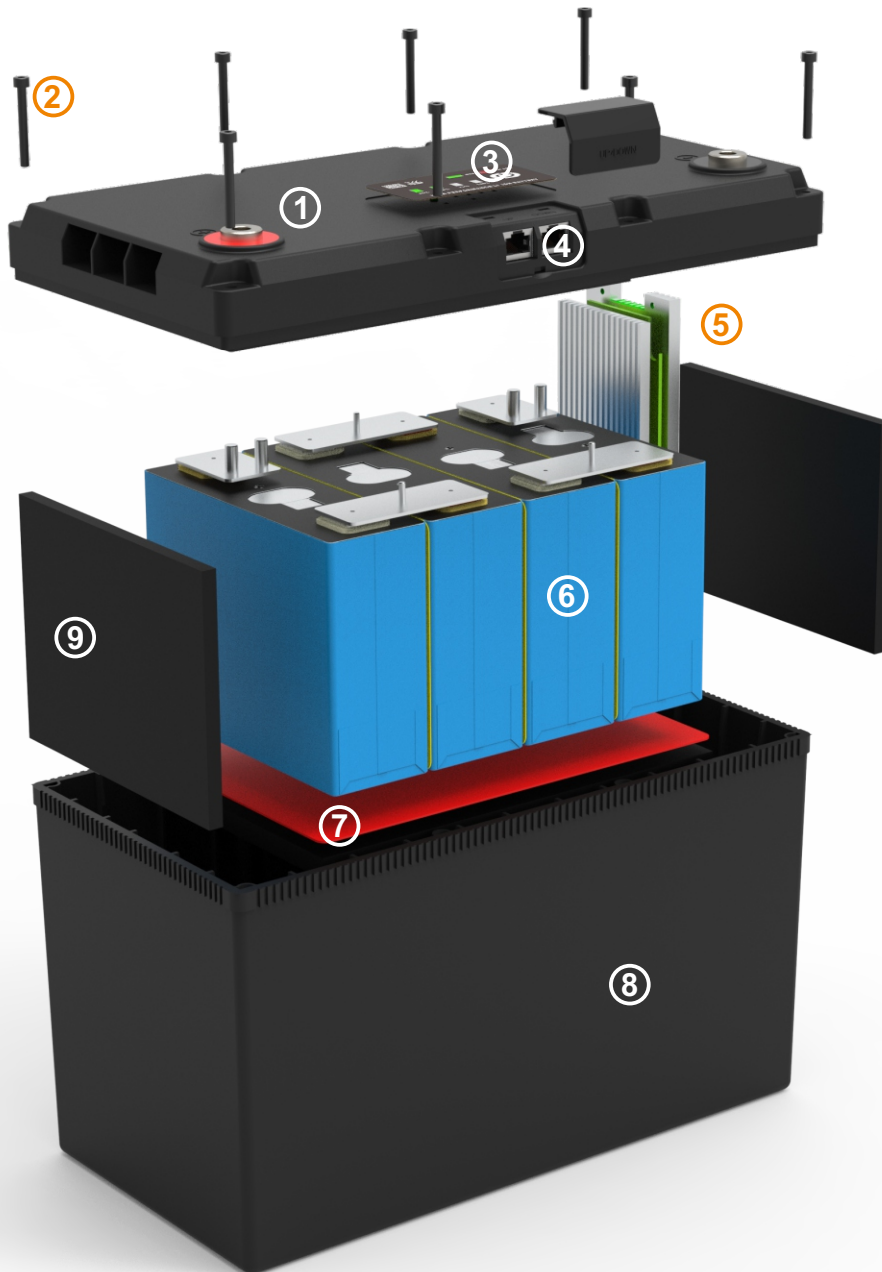
Short Current Protection Delay Time	1500 uS
Short Current Release Method	Release load

Heater Control (Optional)

Heater ON	Cell temperatures ≤ 0°C and charger is connected
Heater OFF	Cell temperature > 10°C

12.8V100Ah

INTERNAL STRUCTURE



- | | | |
|--------------------------|--------------------------------|----------------------------|
| ① Detachable cover-ABS | ④ Communication Port- Optional | ⑦ Heater - Optional |
| ② Stainless steel screws | ⑤ BMS (4S100A) | ⑧ Case -ABS |
| ③ ON/OFF button and LEDs | ⑥ Cell Module (12.8V104Ah) | ⑨ EVA Insulation Materials |