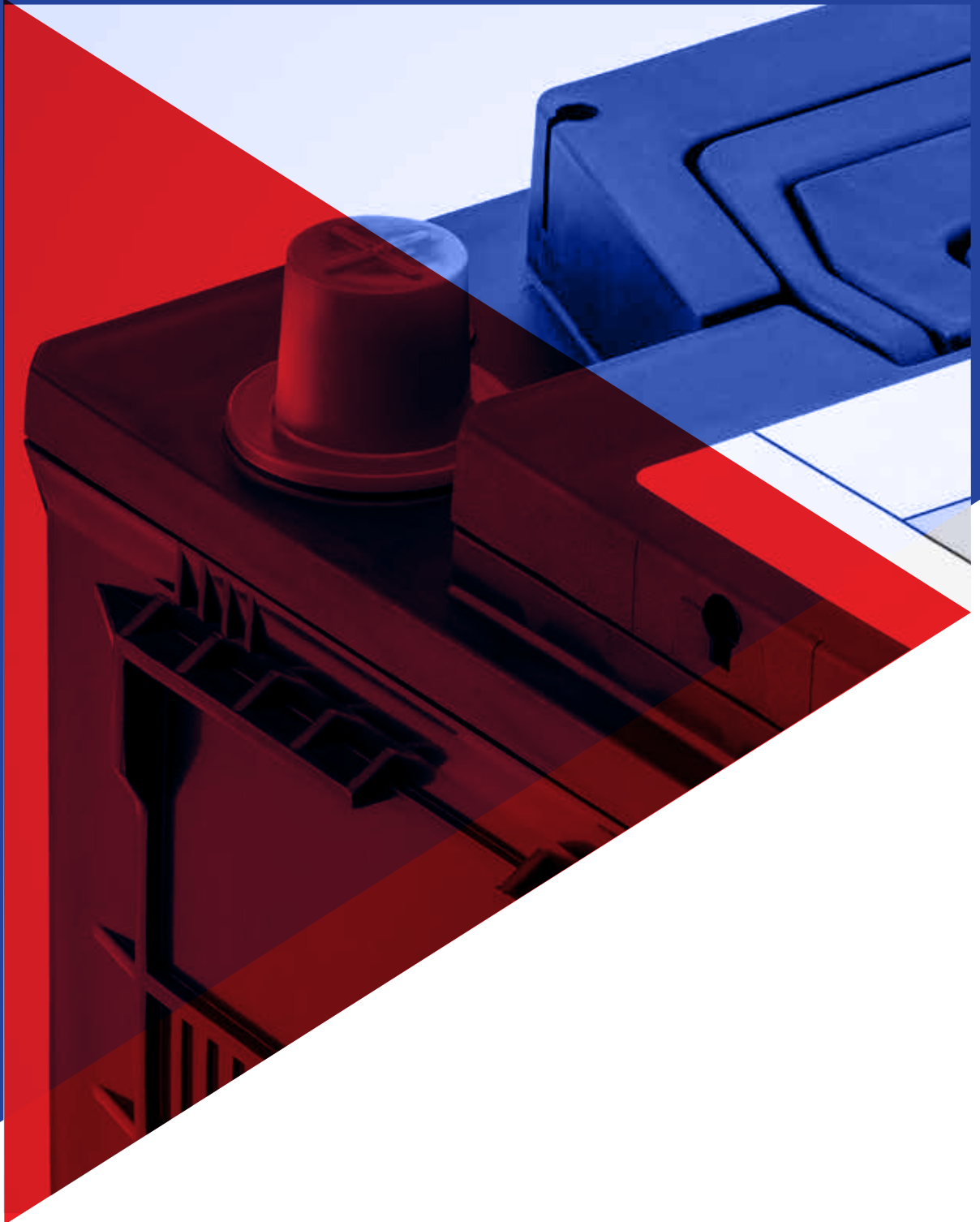


BRINGING ENERGY TO LIFE



12.8V 100Ah

12.8 V100 Ah

12.8 V100 Ah Specification Sheet

Model	LFP12.8V100AH G1
Cell and Connection	CB56-104Ah, 1PS
Nominal Voltage (V)	12.8
Nominal Capacity (Ah)	100
Total Energy (Wh)	1280
Max.Charging Current (A)	100
Recommended Charging Current (A)	50
Charging Voltage (V)	14.2~14.6
Max.Discharging Current (A)	100
End of Discharge (V)	11.2
Protection	Over Charge, Over Discharge, Over Temperature, Low Temperature, Over Current Short Circuit.
Life Cycle	>3500 Cycles
Operating Temperature Range	Charge: 0~+5°C Discharge: -20~+55°C
Design Calander Life	10 Years
Commiunication Port	/
LED indicator and Button	/
Dimensions (W*D*H,mm)	330*172*214
Weight (kg)	10.5
Oeration Humidity	0~95% RH (No Condensing)
IP Class	IP65
Parallel support	Yes, Max, 4 Sets
Series Support	Yes, Max, 4 Sets
Certification-Cell	/
Certification Battery	/
Optional Parts	Internal Bluetooth Module

12.8 V100 Ah

Design

- Detachable ABS case, better than traditional case.
- ON/OFF Button, LED indicators for SOC, RN and ALM.
- IP 65 Class (G1, G2). IP 30 Class (G3).
- Maintenance.

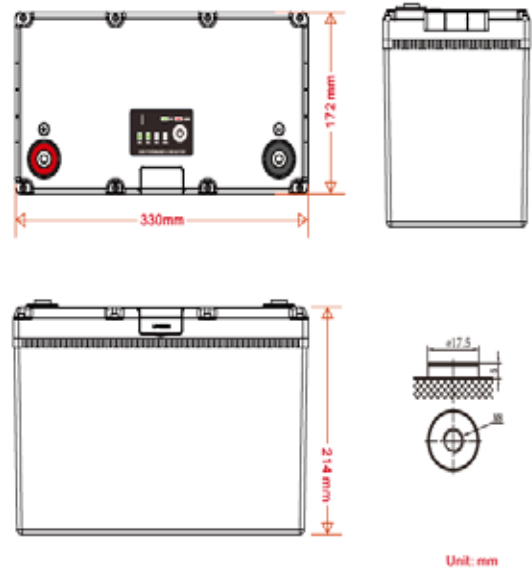
Safety

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

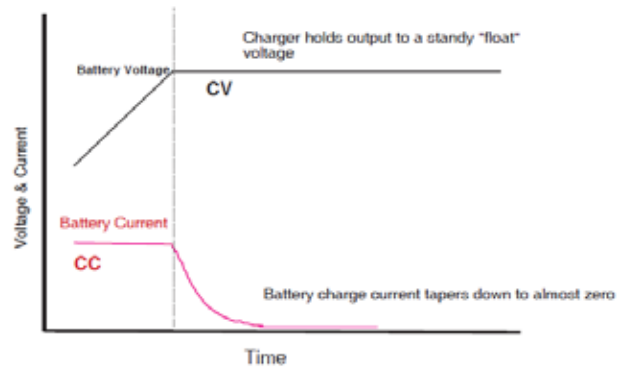
Battery Management System

- 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)

Dimension



Charging Batteries



12.8 V100 Ah

BMS Detail Information	
<i>Over-Charge Alarm & Protection</i>	
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)
<i>Over-Discharge Alarm & Protection</i>	
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) 10V (For Pack)
<i>Over-Current Alarm & Protection</i>	
Charge Over Current Alarm	60A
Charge Over Current Protection	110A
Charge Over Current Protection delay	15S
Charge Over Current Release	Automatic Release after 1min and up to 3 Times/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
<i>Over Temperature Alarm & Protection</i>	
Charge Low Temperature Alarm	7°C
Charge Low Temperature Protection	0°C
Charge Low Temperature Release	5°C
Charge High Temperature Alarm	50°C
Charge High Temperature Protection	55°C
Charge High Temperature Release	45°C
Discharge Low Temperature Alarm	-10°C
Discharge Low Temperature Protection	-20°C
Discharge Low Temperature Release	-17°C
Discharge High Temperature Alarm	55°C
Discharge High Temperature Protection	60°C
Discharge High Temperature Release	50°C
<i>Short Circuit Protection</i>	
Short Current Protection Delay Time	1500 uS
Short Current Release Method	Release Load
<i>Heater Control (Optional)</i>	
Heater ON	Cell Temperatures 0°C and charger is connected
Heater OFF	Cell temperature > 10°C

12.8 V100 Ah

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

