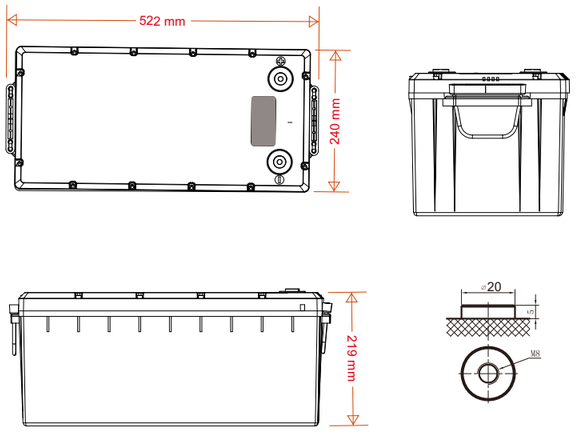
12.8V200Ah

LiFePO4 BATTERY

Dimension:



SAFETY

+ Long life type prismatic LiFePO4 cells.
+ Cell certification: UN38.3, ROHS, IEC62619, UL1973.
+ Battery certification: UN38.3, MSDS.
+ The cycle life over 3500 times.

DESIGN

+ Detachable case, better than traditional case.
+ Case material ABS+PC, better and stronger than ABS case.
+ IP65 Class, water-proof design.
+ Maintenance free.

BATTERY MANAGEMENT SYSTEM

+ Integrated BMS inside.
+ Independent protection for charge and discharge.
+ OVP, LVP, OCP, OTP, LTP, OTP, Short circuit protection.
+ Support LEDs indicators, Heater parts, Blue-tooth

New Generation Li-ion Battery

12.8V200Ah

SPECIFICATION

Model	LFP12.8V200AH G2
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	200
Total Energy [Wh]	2560
Max. Charging Current [A]	200
Recommended Charging Current [A]	100
Charging Voltage [V]	14.2~14.6
Max. Discharging Current [A]	200
End of Dicharge Voltage [V]	11.2
Operating Temperature Range (1)	Charge: 0 ~ +50°C； Discharge: -20 ~ +55°C With optional heater parts: Charge/Discharge -20~+55°C
Protection	Over charge Over discharge, Over temperature, Low Temperature, Over Current, Short circuit
Cycle Life (2)	>3500 cycles
Designed Calendar Life	10 Years
Dimension (W*D*H, mm)	522*240*219
Weight [Kg]	21.6
Operation Humidity	0~95% RH (No condensing)
Communication Port	/
LED Indicator and Button	SOC, ALM, RUN, ON/OFF
IP Class	IP65
Parallel Support (3)	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973;
Certification-Battery	UN38.3; MSDS; CE
Optional Parts	Internal Bluetooth Module Heater Parts(100W)

Note:

(1) Normally the Li-ion battery operation temperature range is : discharge -20~+55°C, charge 0~+55°C, If the optional heater is stalled, it will automatic start to work once the cell temperature is below 5°C and the heater can help to increase cell temperature 4~8°C/hour.With Optional Heater: Charge / Discharge: -20 ~ +55°C , the charger power should be above than heater parts power consumption.

(2) 25°C ,0.5C/0.5C, 100%DOD and 80% EOL

(3) For parallel and series power cable connection, refer to user manual.

The datasheet is subject to change without prior notification

BMS Detail Information

Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 14.2V (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	120A
Charge Over Current Protection	220A
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	220A
Discharge Over Current Protection-1	230A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	240A
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 (for optional heater parts)	
Heater ON	Cell temperatures≤ 0°C and charger is connected
Heater OFF	Cell temperature >10°C

New Generation Li-ion Battery

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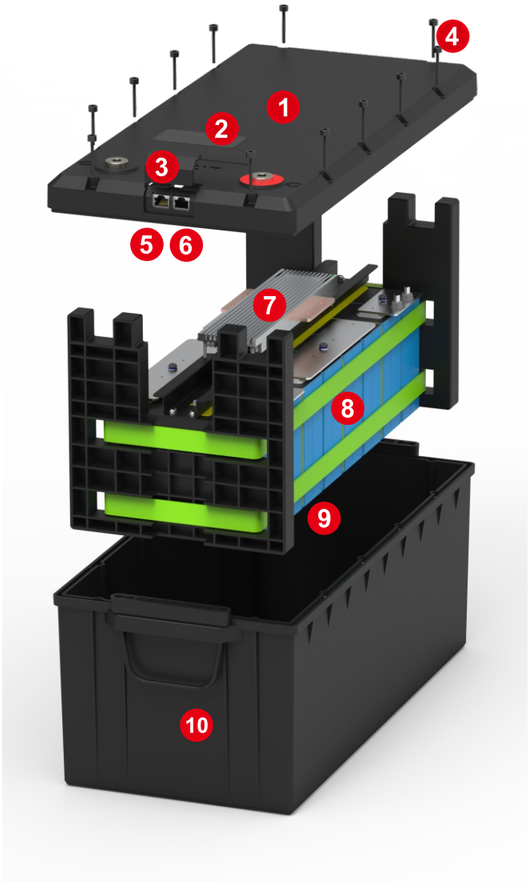
INTERNAL STRUCTURE DIAGRAM



1.

2. PC Film

3.

4. Hexagon socket screws

5. ON/OFF button and LEDs (Only for G2,G3)
   Optional Bluetooth Module

6.

7. BMS (RD-RJ4S200A)

8. Cells, 2P4S

9. Heater Parts (200W, Optional)

10. Case : ABS+PC

Optional Parts: Bluetooth module & APP

Bluetooth Li

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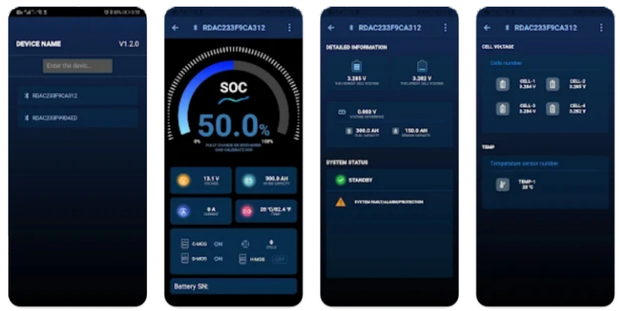
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