



New Generation Li-ion Battery



12.8V Series

- LFP12.8V100Ah (G24)
- LFP12.8V100Ah (G31)
- LFP12.8V135Ah (G31)
- LFP12.8V200Ah
- LFP12.8V280Ah
- LFP12.8V300Ah

25.6V Series

- LFP25.6V50Ah (G31)
- LFP25.6V72Ah (G31)
- LFP25.6V100Ah
- LFP25.6V150Ah

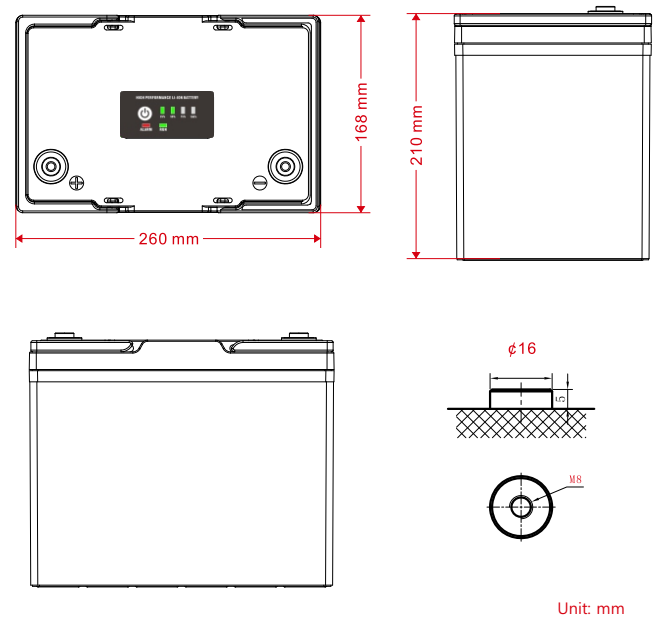


12.8V100Ah (G24)

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 module.



12.8V100Ah (G24)

SPECIFICATION

Model	LFP12.8V100AH G1	LFP12.8V100AH G2	LFP12.8V100AH G3
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 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)	260*168*210 (BCI Group 24)		
Weight [Kg]	10		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	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		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



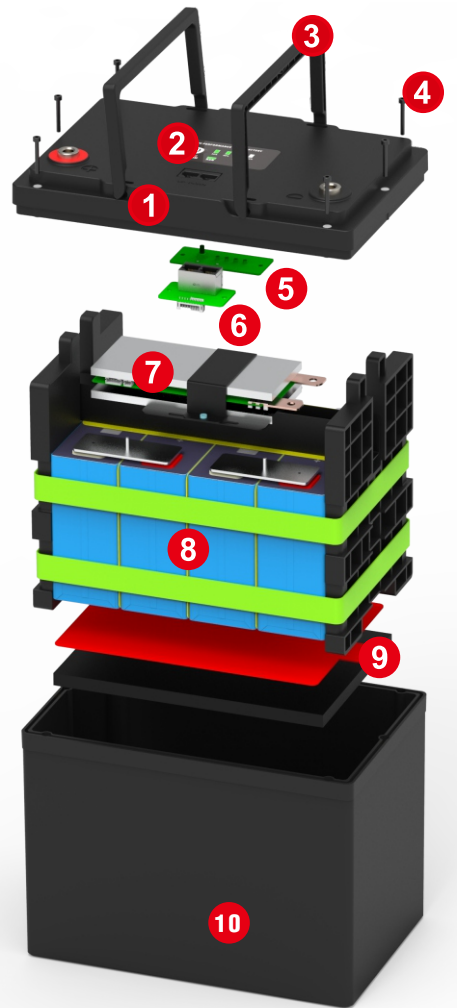
BMS Detail Information

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	60A
Charge Over Current Protection	105A
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	105A
Discharge Over Current Protection-1	110A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	300A
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



12.8V100Ah (G24)

INTERNAL STRUCTURE DIAGRAM



- ①

Detachable cover-ABS+PC
- ②

PC Film (Only for G2,G3)
- ③

Handle
- ④

Hexagon socket screws
- ⑤

ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥

Communication board (Only for G3)
- ⑦

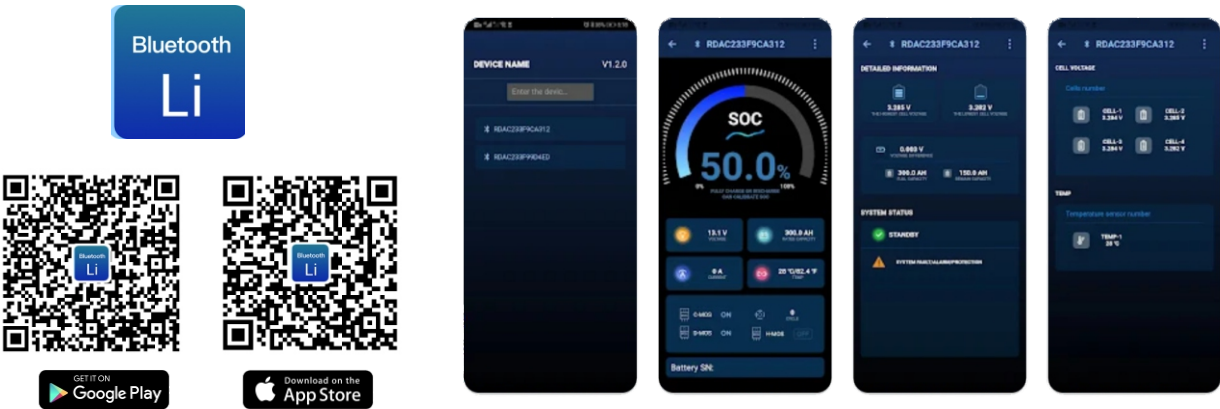
BMS (RD-RJ4S100A)
- ⑧

Cells, 1P4S
- ⑨

Heater Parts (100W, Optional)
- ⑩

Case : ABS+PC

Optional Parts: Bluetooth module & APP



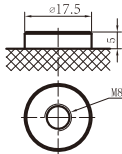
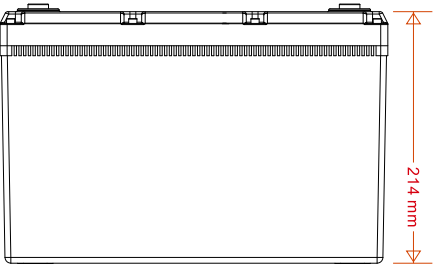
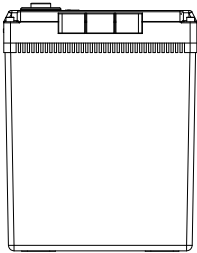
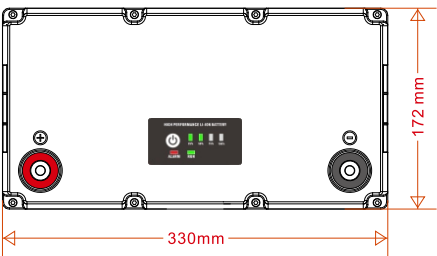


12.8V100Ah (G31)

LiFePO4 BATTERY



Dimension:



Unit: mm

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 module.



12.8V100Ah (G31)

SPECIFICATION

Model	LFP12.8V100AH G1	LFP12.8V100AH G2	LFP12.8V100AH G3
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 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)	330*172*214 (BCI Group 31)		
Weight [Kg]	10.5		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	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;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



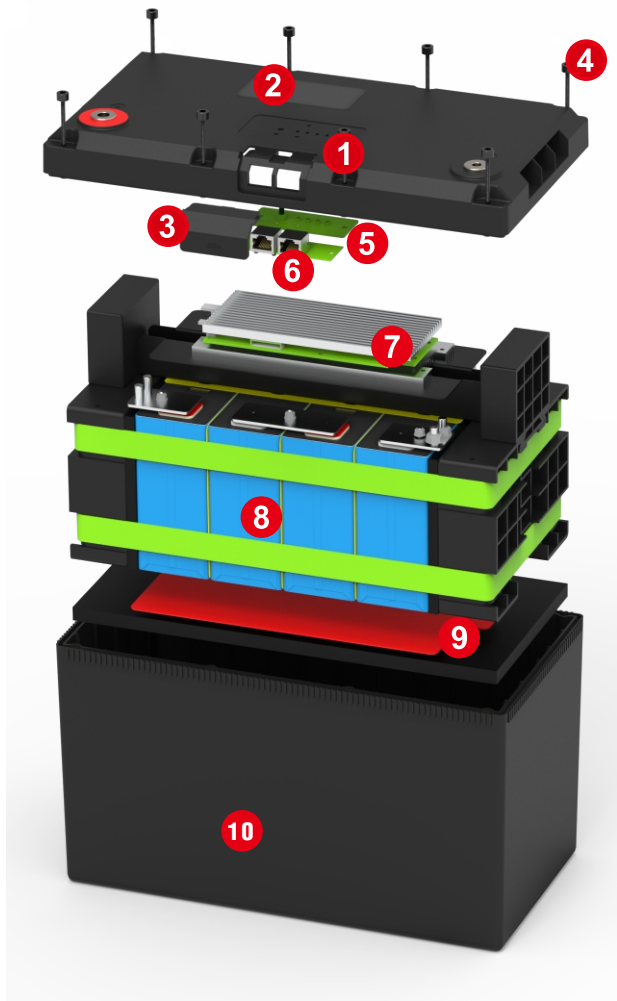
BMS Detail Information

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	60A
Charge Over Current Protection	105A
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	105A
Discharge Over Current Protection-1	110A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	300A
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



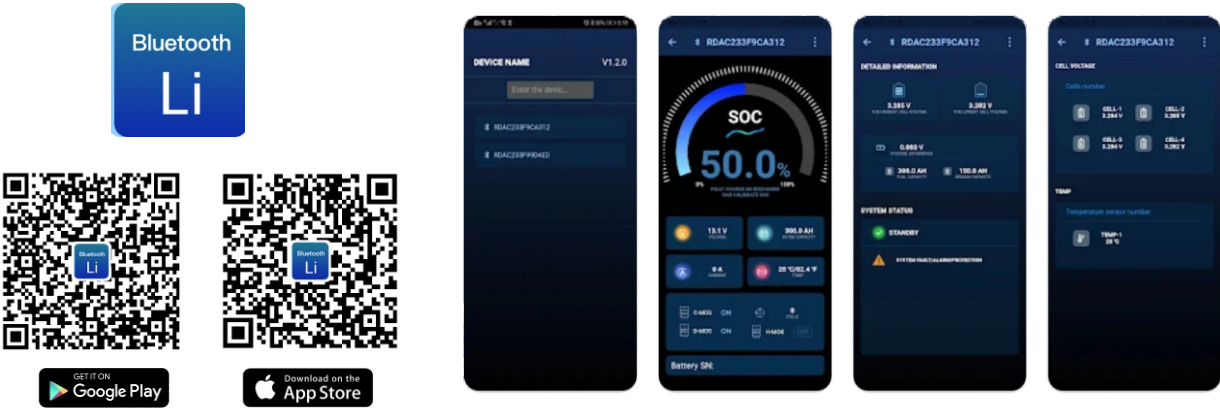
12.8V100Ah (G31)

INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC
- ② PC Film
- ③ Communication port cover (Only for G3)
- ④ Hexagon socket screws
- ⑤ ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥ Communication board (Only for G3)
- ⑦ BMS (RD-RJ4S100A)
- ⑧ Cells, 1P4S
- ⑨ Heater Parts (100W, Optional)
- ⑩ Case : ABS+PC

Optional Parts: Bluetooth module & APP



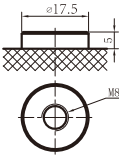
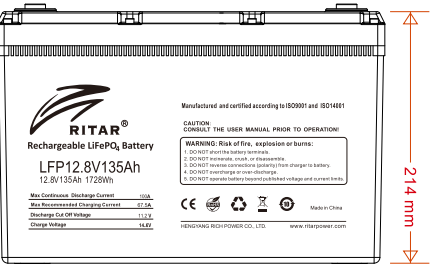
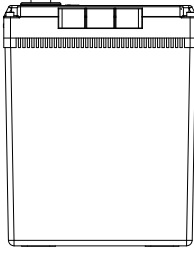
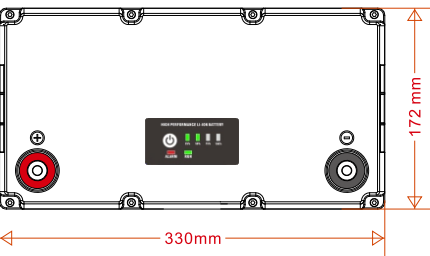


12.8V135Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + 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 module.



12.8V135Ah

SPECIFICATION

Model	LFP12.8V135AH G1	LFP12.8V135AH G2	LFP12.8V135AH G3
Nominal Voltage [V]	12.8		
Nominal Capacity [Ah]	135		
Total Energy [Wh]	1728		
Max. Charging Current [A]	100		
Recommended Charging Current [A]	67.5		
Charging Voltage [V]	14.2~14.6		
Max. Discharging Current [A]	100		
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)	330*172*214 (BCI Group 31)		
Weight [Kg]	19		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets	Yes, Max. 4 Sets	Yes, Max. 4 Sets
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



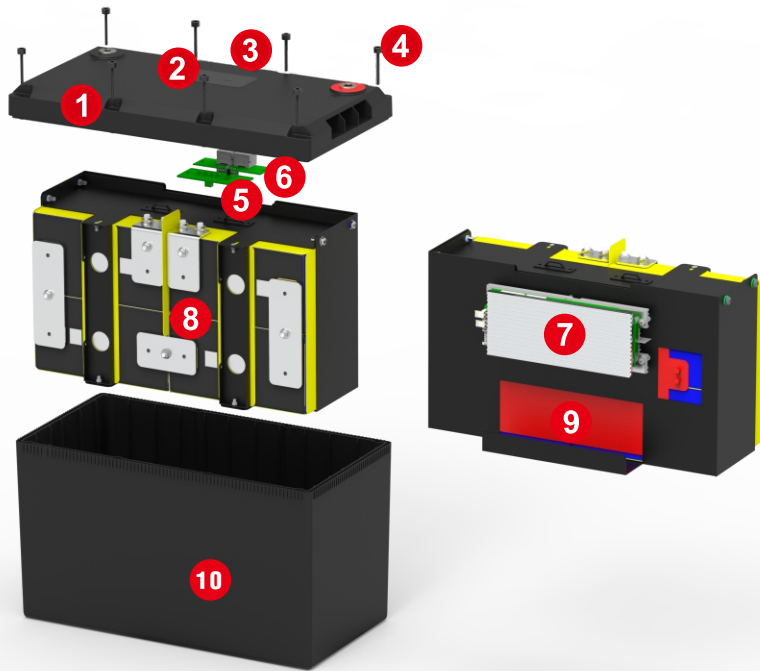
BMS Detail Information

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	60A
Charge Over Current Protection	105A
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	105A
Discharge Over Current Protection-1	110A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	300A
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



12.8V135Ah

INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC

② PC Film

③ Communication port cover (Only for G3)

④ Hexagon socket screws

⑤ ON/OFF button and LEDs (Only for G2,G3)
- ⑥ Communication board (Only for G3)

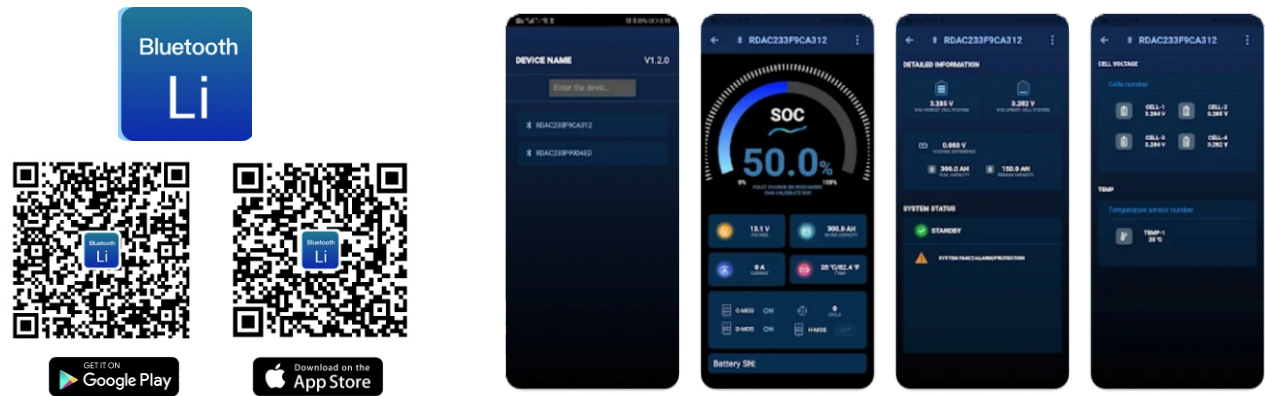
⑦ BMS (RD-RJ4S100A)

⑧ Cells, 1P4S

⑨ Heater Parts (100W, Optional)

⑩ Case : ABS+PC
- Optional Bluetooth Module

Optional Parts: Bluetooth module & APP



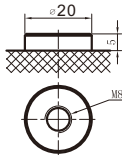
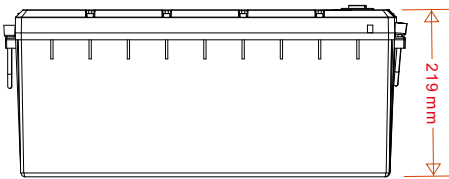
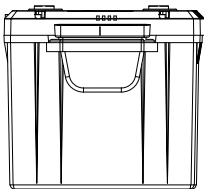
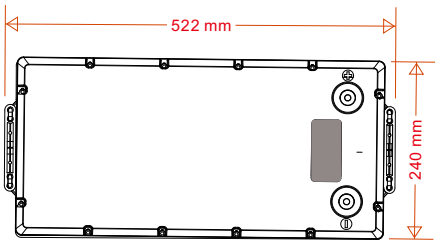


12.8V200Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

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 module.



12.8V200Ah

SPECIFICATION

Model	LFP12.8V200AH G1	LFP12.8V200AH G2	LFP12.8V200AH G3
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 Discharge 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	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	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;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



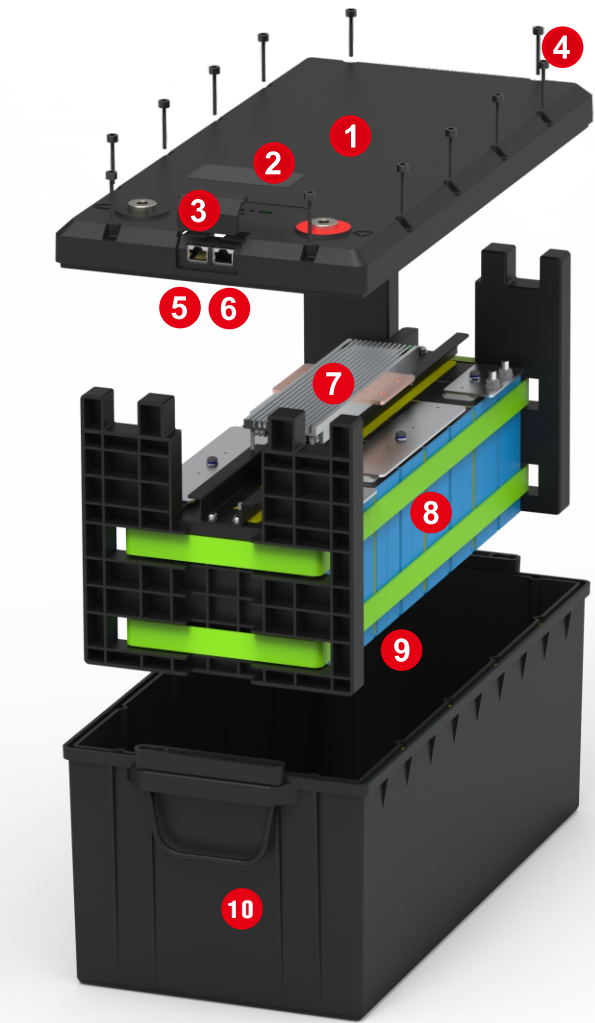
BMS Detail Information

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



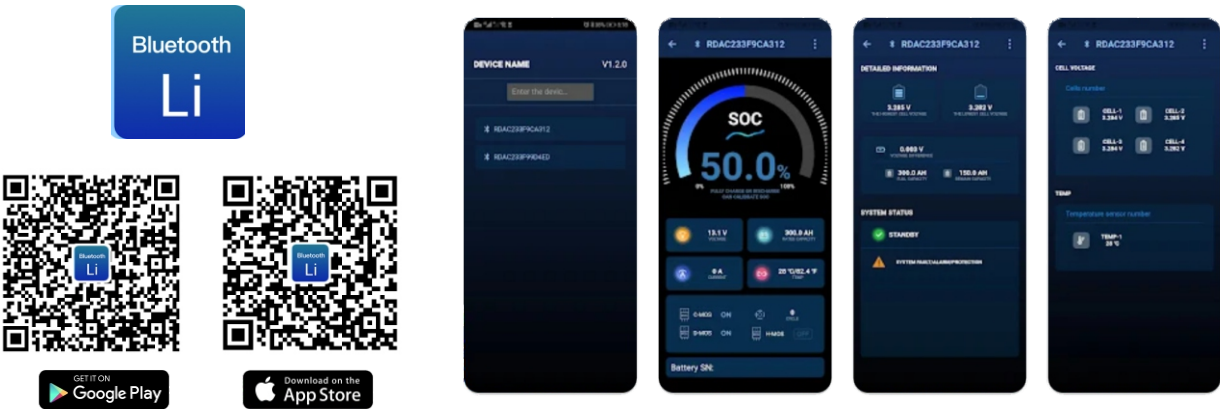
12.8V200Ah

INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC
- ② PC Film
- ③ Communication port cover (Only for G3)
- ④ Hexagon socket screws
- ⑤ ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥ Communication board (Only for G3)
- ⑦ BMS (RD-RJ4S200A)
- ⑧ Cells, 2P4S
- ⑨ Heater Parts (200W, Optional)
- ⑩ Case : ABS+PC

Optional Parts: Bluetooth module & APP



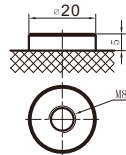
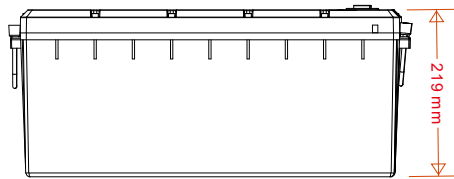
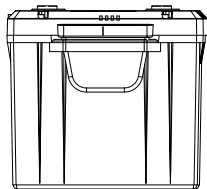
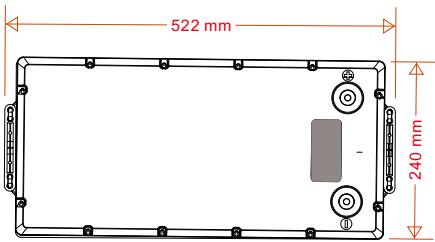


12.8V280Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + Cell certification: UN38.3, IEC62619, UL1973, UL9540A.
- + Battery certification: UN38.3, MSDS.
- + The cycle life over 6000 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 module.



12.8V280Ah

SPECIFICATION

Model	LFP12.8V280AH G1	LFP12.8V280AH G2	LFP12.8V280AH G3
Nominal Voltage [V]	12.8		
Nominal Capacity [Ah]	280		
Total Energy [Wh]	3584		
Max. Charging Current [A]	140		
Recommended Charging Current [A]	140		
Charging Voltage [V]	14.2~14.6		
Max. Discharging Current [A]	140		
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⁾	>6000 cycles		
Designed Calendar Life	10 Years		
Dimension (W*D*H, mm)	522*240*219		
Weight [Kg]	28.6		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	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; UI1973; UL9540A;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



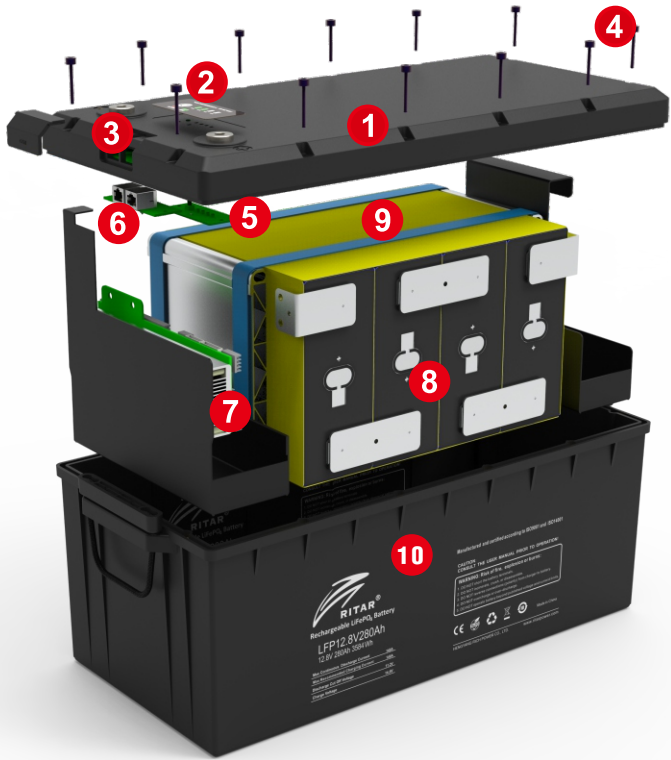
BMS Detail Information

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	165A
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	154A
Discharge Over Current Protection-1	161A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	168A
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



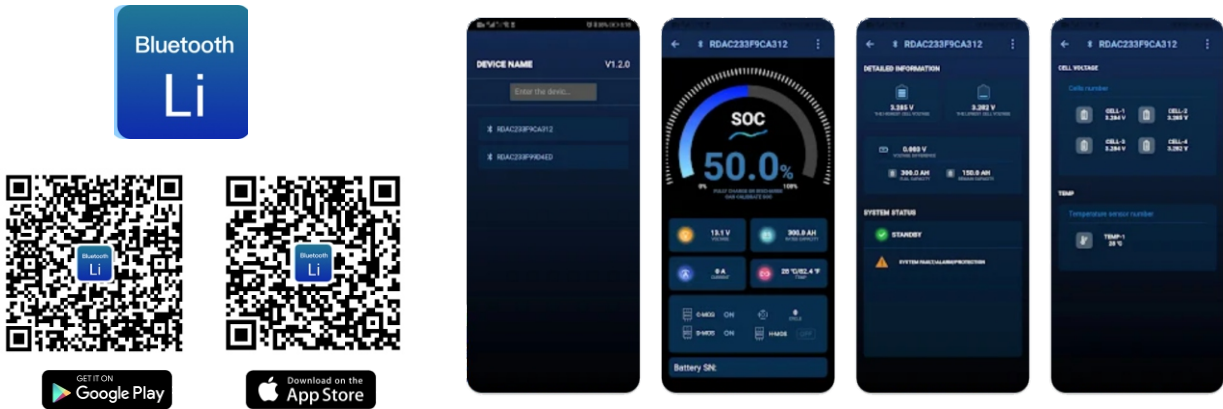
12.8V280Ah

INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC
- ② PC Film
- ③ Communication port cover (Only for G3)
- ④ Hexagon socket screws
- ⑤ ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥ Communication board (Only for G3)
- ⑦ BMS (RD-RJ4S150A)
- ⑧ Cells, 1P4S
- ⑨ Heater Parts (200W, Optional)
- ⑩ Case : ABS+PC

Optional Parts: Bluetooth module & APP



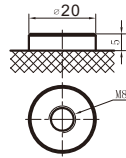
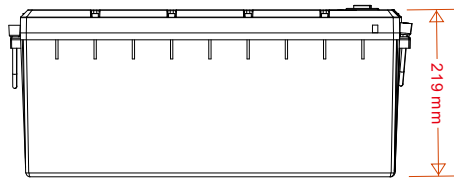
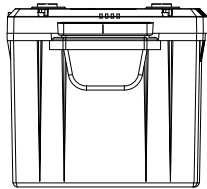
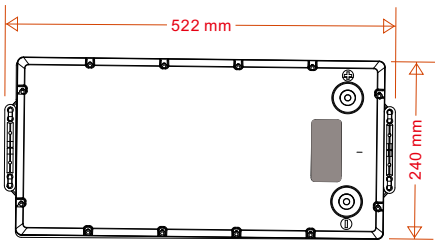


12.8V300Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

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 module.



12.8V300Ah

SPECIFICATION

Model	LFP12.8V300AH G1	LFP12.8V300AH G2	LFP12.8V300AH G3
Nominal Voltage [V]	12.8		
Nominal Capacity [Ah]	300		
Total Energy [Wh]	3840		
Max. Charging Current [A]	200		
Recommended Charging Current [A]	150		
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]	31.5		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	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;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



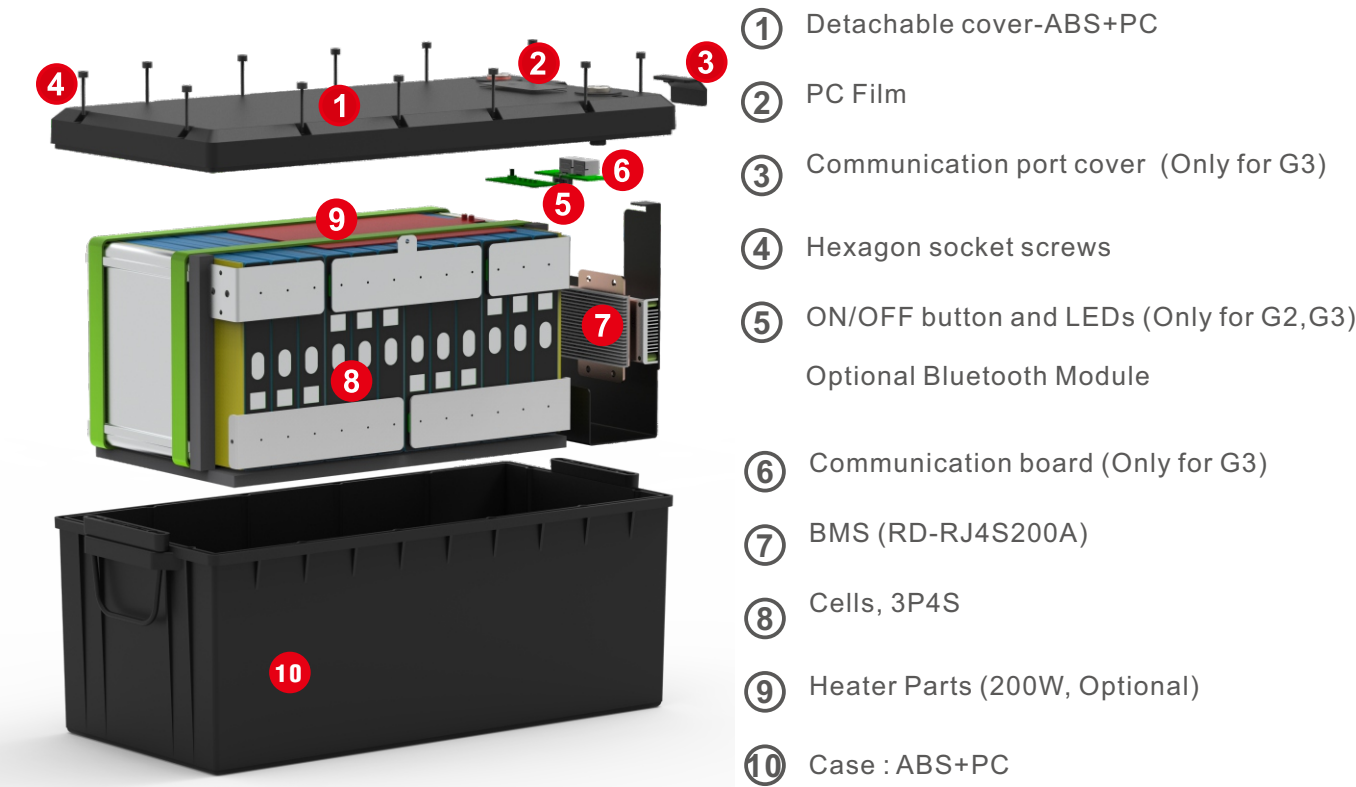
BMS Detail Information

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

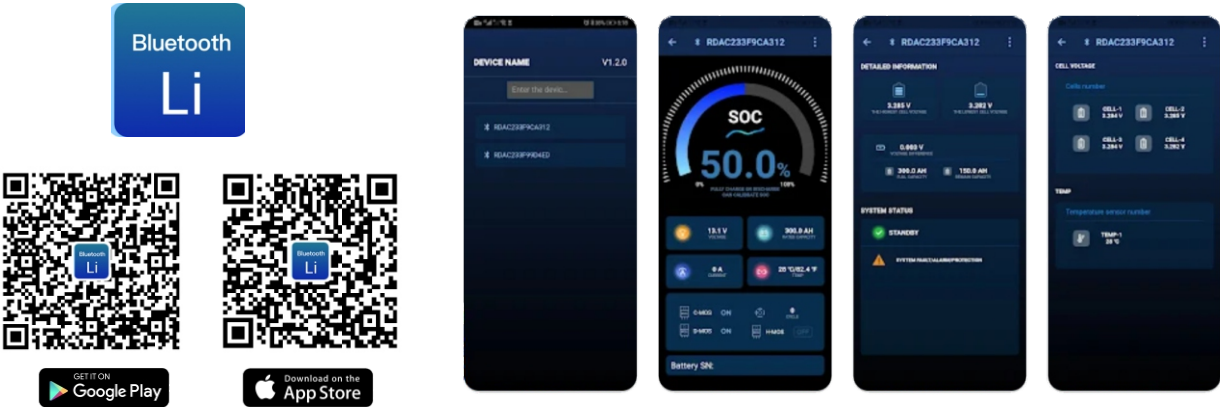


12.8V300Ah

INTERNAL STRUCTURE DIAGRAM



Optional Parts: Bluetooth module & APP



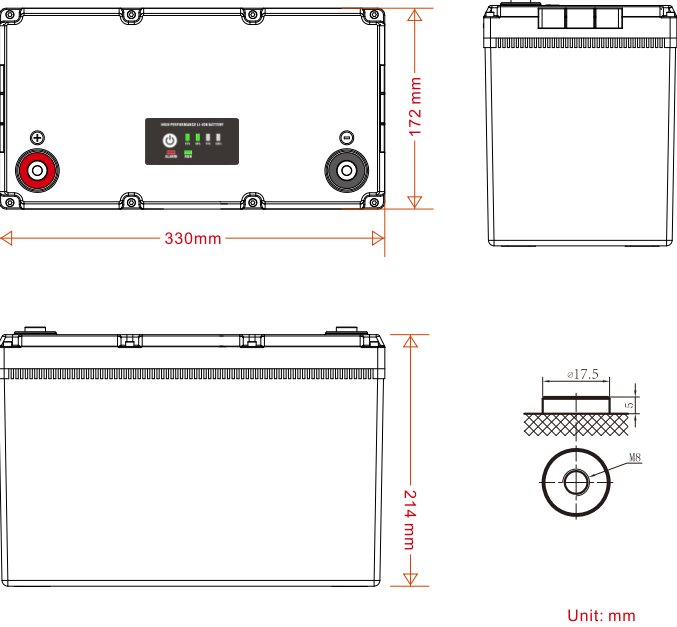


25.6V50Ah

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 module.

Unit: mm



25.6V50Ah

SPECIFICATION

Model	LFP25.6V50AH G1	LFP25.6V50AH G2	LFP25.6V50AH G3
Nominal Voltage [V]	25.6		
Nominal Capacity [Ah]	50		
Total Energy [Wh]	1280		
Max. Charging Current [A]	50		
Recommended Charging Current [A]	25		
Charging Voltage [V]	28.4~29.2		
Max. Discharging Current [A]	50		
End of Dicharge Voltage [V]	22.4		
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)	330*172*214 (BCI Group 31)		
Weight [Kg]	15		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 2 Sets	Yes, Max. 2 Sets	Yes, Max. 2 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



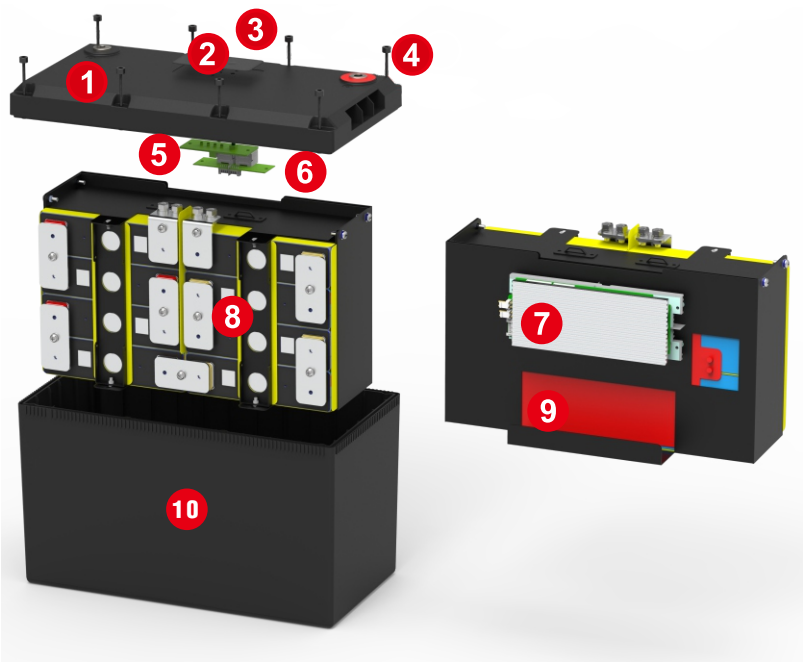
BMS Detail Information

Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 28.4V (For pack)
Over-Charge Protection	3.7V (For cell) 29.6V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 27.6V (For pack)
Over-Discharge Alarm & Protection	
Over-Discharge Alarm	2.8V (For cell) 22.4V (For pack)
Over-Discharge Protection	2.5V (For cell) 20V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 22.4V (For pack)
Over Current Alarm & Protection	
Charge Over Current Alarm	52.5A
Charge Over Current Protection	55A
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	55A
Discharge Over Current Protection-1	60A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	90A
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



25.6V50Ah

INTERNAL STRUCTURE DIAGRAM



- ①

Detachable cover-ABS+PC
- ②

PC Film
- ③

Communication port cover (Only for G3)
- ④

Hexagon socket screws
- ⑤

ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥

Communication board (Only for G3)
- ⑦

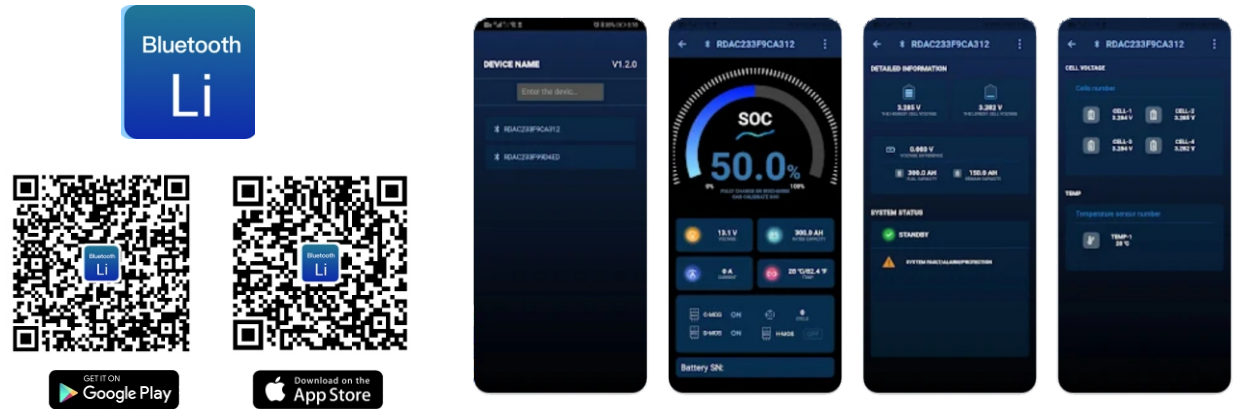
BMS (RD-RJ8S80A)
- ⑧

Cells-3.2V50Ah, 1P8S
- ⑨

Heater Parts (100W, Optional)
- ⑩

Case : ABS+PC

Optional Parts: Bluetooth module & APP



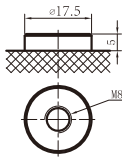
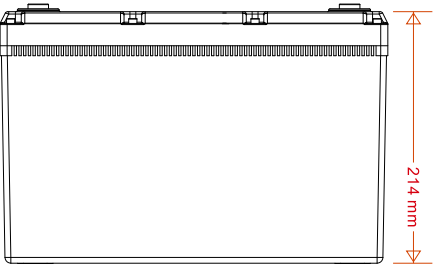
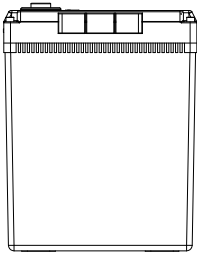
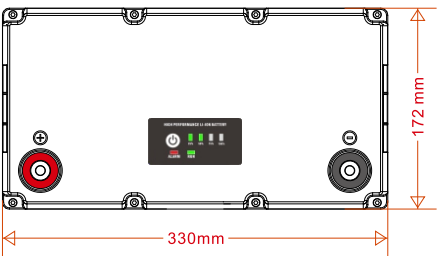


25.6V72Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + 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 module.



25.6V72Ah

SPECIFICATION

Model	LFP25.6V72AH G1	LFP25.6V72AH G2	LFP25.6V72AH G3
Nominal Voltage [V]	25.6		
Nominal Capacity [Ah]	72		
Total Energy [Wh]	1842		
Max. Charging Current [A]	72		
Recommended Charging Current [A]	36		
Charging Voltage [V]	28.4~29.2		
Max. Discharging Current [A]	72		
End of Dicharge Voltage [V]	22.4		
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)	330*172*214 (BCI Group 31)		
Weight [Kg]	17		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 2 Sets	Yes, Max. 2 Sets	Yes, Max. 2 Sets
Certification-Cell	UN38.3		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.



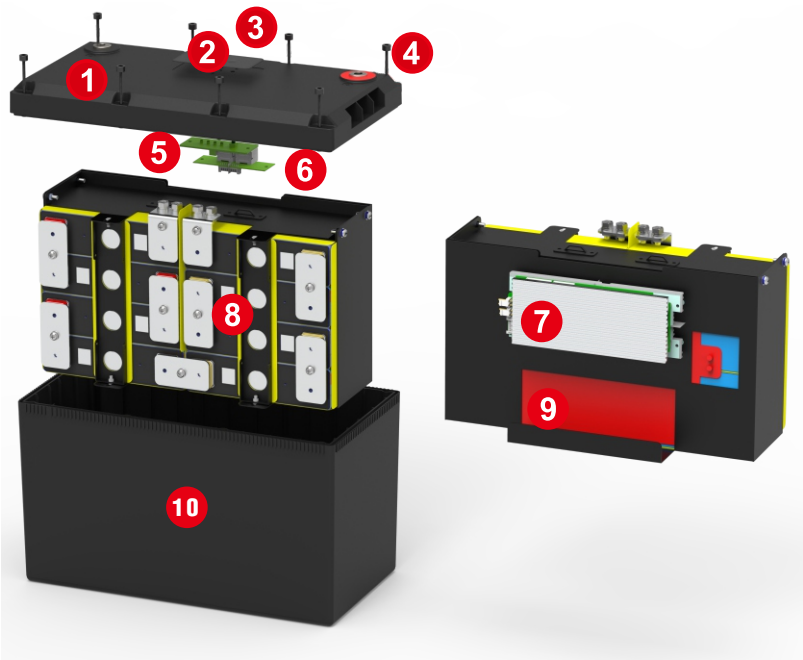
BMS Detail Information

Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 28.4V (For pack)
Over-Charge Protection	3.7V (For cell) 29.6V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 27.6V (For pack)
Over-Discharge Alarm & Protection	
Over-Discharge Alarm	2.8V (For cell) 22.4V (For pack)
Over-Discharge Protection	2.5V (For cell) 20V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 22.4V (For pack)
Over Current Alarm & Protection	
Charge Over Current Alarm	52.5A
Charge Over Current Protection	55A
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	55A
Discharge Over Current Protection-1	60A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	90A
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



25.6V72Ah

INTERNAL STRUCTURE DIAGRAM



- ①

Detachable cover-ABS+PC
- ②

PC Film
- ③

Communication port cover (Only for G3)
- ④

Hexagon socket screws
- ⑤

ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥

Communication board (Only for G3)
- ⑦

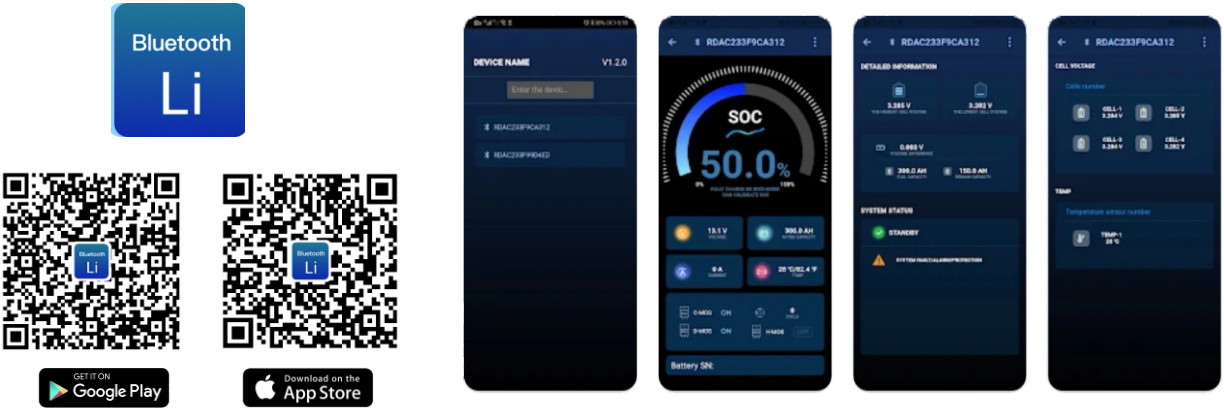
BMS (RD-RJ8S80A)
- ⑧

Cells-3.2V72Ah, 1P8S
- ⑨

Heater Parts (100W, Optional)
- ⑩

Case : ABS+PC

Optional Parts: Bluetooth module & APP



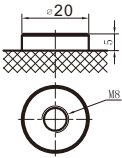
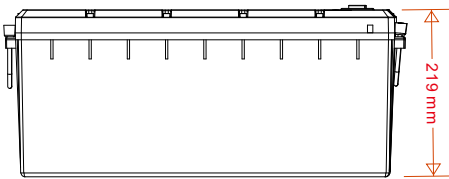
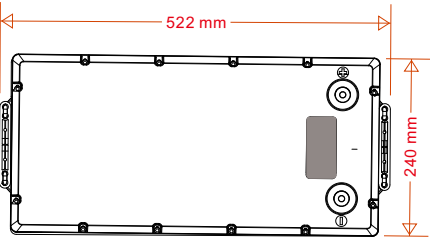


25.6V100Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

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 module.



25.6V100Ah

SPECIFICATION

Model	LFP25.6V100AH G1	LFP25.6V100AH G2	LFP25.6V100AH G3
Nominal Voltage [V]	25.6		
Nominal Capacity [Ah]	100		
Total Energy [Wh]	2560		
Max. Charging Current [A]	100		
Recommended Charging Current [A]	50		
Charging Voltage [V]	28.4~29.2		
Max. Discharging Current [A]	100		
End of Dicharge Voltage [V]	22.4		
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	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 2 Sets	Yes, Max. 2 Sets	Yes, Max. 2 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973;		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.

New Generation Li-ion Battery



BMS Detail Information

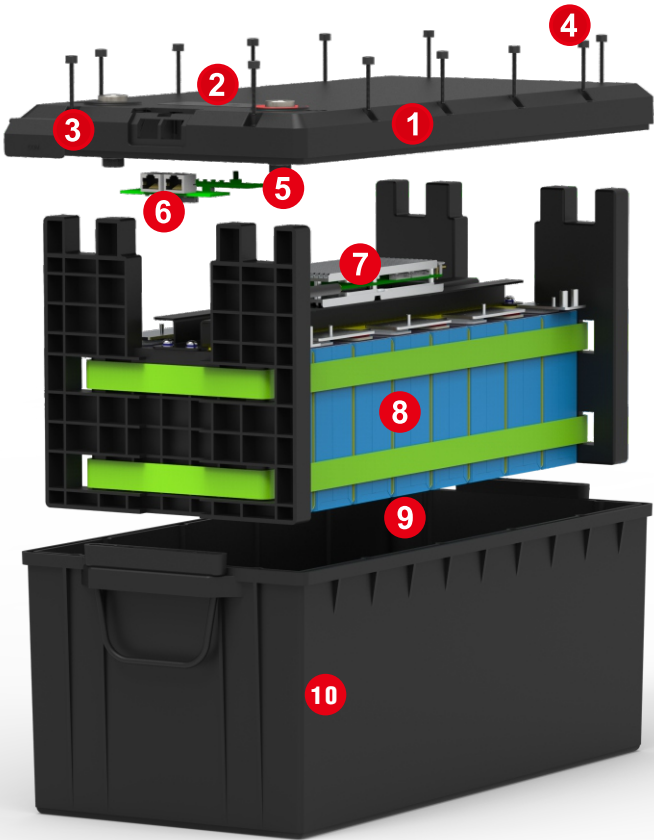
Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 28.4V (For pack)
Over-Charge Protection	3.7V (For cell) 29.6V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 27.6V (For pack)
Over-Discharge Alarm & Protection	
Over-Discharge Alarm	2.8V (For cell) 22.4V (For pack)
Over-Discharge Protection	2.5V (For cell) 20V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 22.4V (For pack)
Over Current Alarm & Protection	
Charge Over Current Alarm	105A
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	120A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	180A
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



25.6100Ah

INTERNAL STRUCTURE DIAGRAM



- ①

Detachable cover-ABS+PC
- ②

PC Film
- ③

Communication port cover (Only for G3)
- ④

Hexagon socket screws
- ⑤

ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥

Communication board (Only for G3)
- ⑦

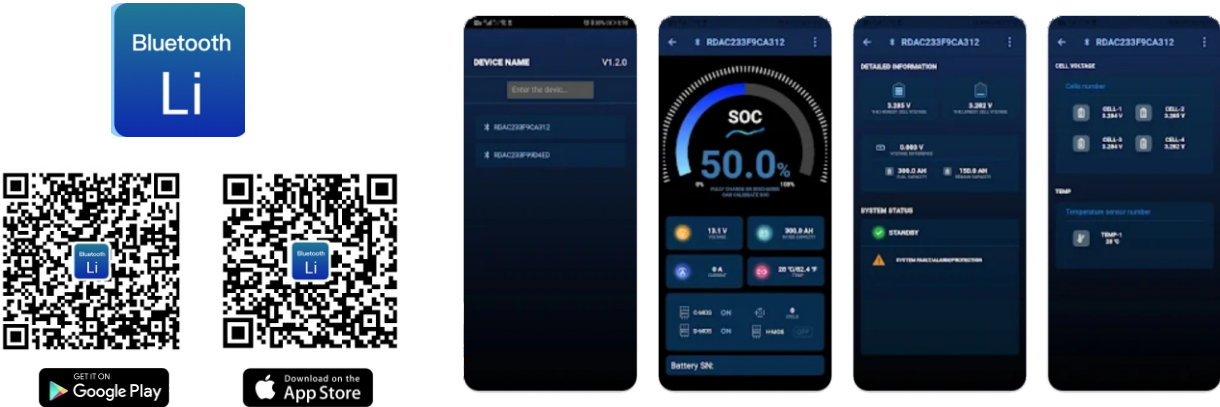
BMS (RD-RJ8S100A)
- ⑧

Cells, 1P8S
- ⑨

Heater Parts (200W, Optional)
- ⑩

Case : ABS+PC

Optional Parts: Bluetooth module & APP



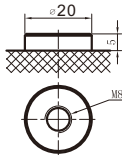
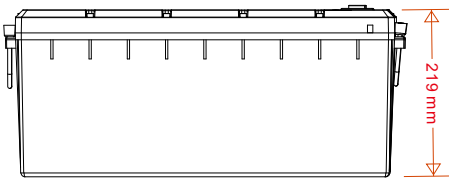
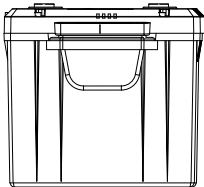
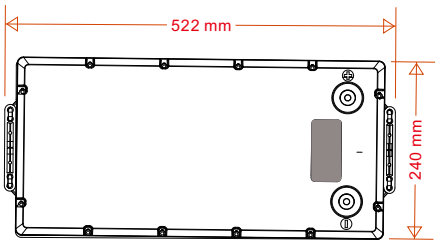


25.6V150Ah

LiFePO4 BATTERY



Dimension:



Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + 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 module.



25.6V150Ah

SPECIFICATION

Model	LFP25.6V150AH G1	LFP25.6V150AH G2	LFP25.6V150AH G3
Nominal Voltage [V]	25.6		
Nominal Capacity [Ah]	150		
Total Energy [Wh]	3840		
Max. Charging Current [A]	150		
Recommended Charging Current [A]	75		
Charging Voltage [V]	28.4~29.2		
Max. Discharging Current [A]	150		
End of Dicharge Voltage [V]	22.4		
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]	29.0		
Operation Humidity	0~95% RH (No condensing)		
Communication Port	/	/	RS485; CAN
LED Indicator and Button	/	SOC, ALM, RUN, ON/OFF	SOC, ALM, RUN, ON/OFF
IP Class	IP65	IP65	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets	Yes, Max, 4Sets	Yes, Max, 4Sets
Series Support	Yes, Max. 2 Sets	Yes, Max. 2 Sets	Yes, Max. 2 Sets
Certification-Cell	UN38.3		
Certification-Battery	UN38.3; MSDS; CE		
Optional Parts	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W)	Internal Bluetooth Module Heater Parts(100W) RS485-USB Device

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.

New Generation Li-ion Battery



BMS Detail Information

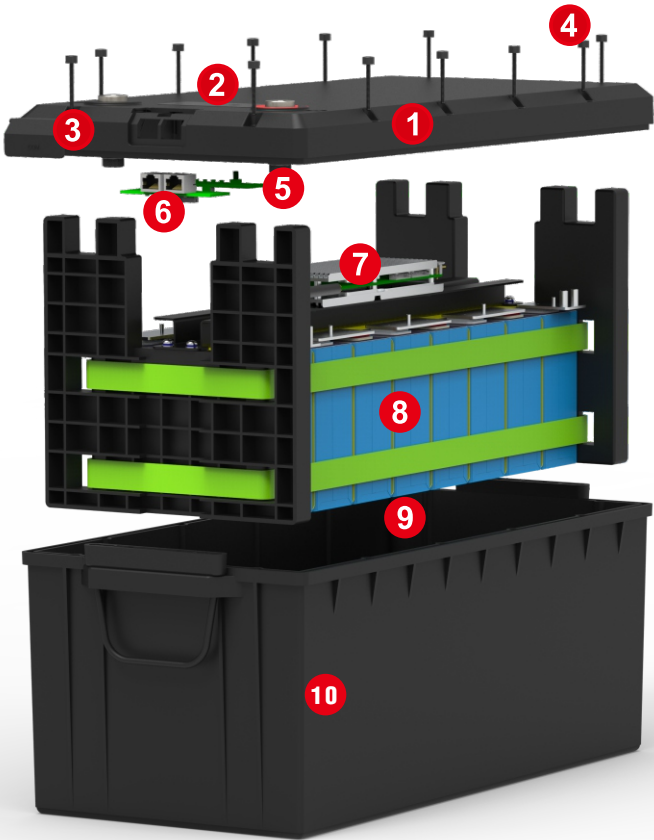
Over-Charge Alarm & Protection	
Over-Charge Alarm	3.55V (For cell) 28.4V (For pack)
Over-Charge Protection	3.7V (For cell) 29.6V (For pack)
Over-Charge Protection Delay	1000 ms
Over-Charge Release	3.45V (For cell) 27.6V (For pack)
Over-Discharge Alarm & Protection	
Over-Discharge Alarm	2.8V (For cell) 22.4V (For pack)
Over-Discharge Protection	2.5V (For cell) 20V (For pack)
Over-Discharge Protection Delay	1000 ms
Over-Discharge Release	2.8V (For cell) 22.4V (For pack)
Over Current Alarm & Protection	
Charge Over Current Alarm	150A
Charge Over Current Protection	165A
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	150A
Discharge Over Current Protection-1	180A
Discharge Over Current Protection-1 Delay	15S
Discharge Over Current Protection-2	300A
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



25.6150Ah

INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC
- ② PC Film
- ③ Communication port cover (Only for G3)
- ④ Hexagon socket screws
- ⑤ ON/OFF button and LEDs (Only for G2,G3)
Optional Bluetooth Module
- ⑥ Communication board (Only for G3)
- ⑦ BMS (RD-RJ8S150A)
- ⑧ Cells-3.2V150Ah, 1P8S
- ⑨ Heater Parts (200W, Optional)
- ⑩ Case : ABS+PC

Optional Parts: Bluetooth module & APP

