

New Generation Li-ion Battery

12.8V/25.6V Lithium Battery Pack Replace VRLA



12.8V

- LFP12.8V100Ah(12.8V100Ah,1280Wh)
- LFP12.8V200Ah(12.8V200Ah,2560Wh)
- LFP12.8V300Ah(12.8V300Ah,3840Wh)

25.6V

- LFP25.6V50Ah(25.6V50Ah,1280Wh)
- LFP25.6V100Ah(25.6V100Ah,2560Wh)
- LFP25.6V200Ah(25.6V200Ah,5120Wh)

G1 (General Type)

G2 (LED Display-SOC, ALARM, RUN; ON/OFF button)

G3 (LED Display-SOC, ALARM, RUN; ON/OFF button; Communication-RS485,CAN)

SAFETY

- + Long life type prismatic LiFePO₄ cells.
- + Battery certification: UN38.3, MSDS, CE.
- + The cycle life over 3500 times.

BATTERY MANAGEMENT SYSTEM

- + Integrated Software BMS inside.
- + Independent protection for charge and discharge.
- + OVP, LVP, OCP, OTP, LTP, Short circuit protection.

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.

12.8V100AH/200AH/300AH

Specification

Model	LFP12.8V100AH G1/G2/G3	LFP12.8V200AH G1/G2/G3	LFP12.8V300AH G1/G2/G3
Cell and Connection	3.2V104Ah, 1P4S	3.2V104Ah, 2P4S	3.2V100Ah, 3P4S
Nominal Voltage [V]	12.8	12.8	12.8
Nominal Capacity [Ah]	100	200	300
Total Energy [Wh]	1280	2560	3840
Max. Charging Current [A]	100	200	100
Recommended Charging Current [A]	50	100	100
Charging Voltage [V]	14.2~14.6	14.2~14.6	14.2~14.6
Max. Discharging Current [A]	100	200	100
End of Discharge Voltage [V]	11.2	11.2	11.2
Operating Temperature Range	G1: Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C G2&G3: Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C G2&G3 With Heater: Charge/Discharge -20~+55°C		
Protection	Over charge, Over discharge, Over temperature, Low Temperature, Over Current, Short circuit		
Cycle Life ¹	>3500 cycles		
Designed Calendar Life	10 Years		
Communication Port	G1& G2:N/A; G3:RS485; CAN		
LED Indicator and Button	G1:N/A; G2&G3: SOC, ALM, RUN, ON/OFF		
Dimension (W*D*H, mm)	330*172*214	522*240*219	522*240*219
Weight [Kg]	10.5	20.5	30.5
Operation Humidity	0~95% RH (No condensing)		
IP Class	G1&G2:IP65; G3:IP30		
Parallel Support ²	Yes, Max, 4Sets		
Series Support	Yes, Max. 4 Sets		
Certification-Cell	12.8V100AH &12.8V200AH:UN38.3; ROHS; IEC62619; UL1973; UL9540A	12.8V300AH: UN38.3; UL1642	
Certification-Battery	UN38.3; MSDS; CE;		
Optional Parts	G1: Internal Bluetooth Module G2:Internal Bluetooth Module, Heater G3:Internal Bluetooth Module, Heater,External Bluetooth Module,External Display Module, RS485-USB Device		

Note:

(1) 0.5C/0.5C, 25°C, 80%DOD to 80% of initial capacity.

(2) For parallel and series connection, refer to user manual.

25.6V50Ah/100Ah/200Ah

Specification

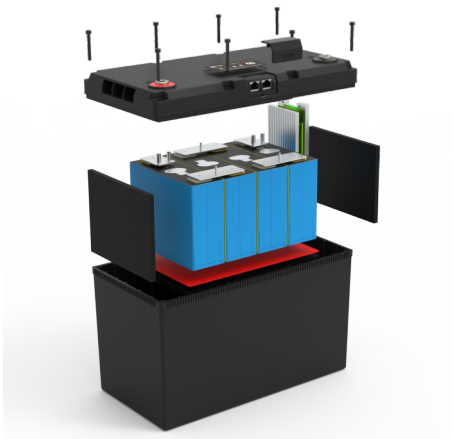
Model	LFP25.6V50AH G1/G2/G3	LFP25.6V100AH G1/G2/G3	LFP25.6V200AH G1/G2/G3
Cell and Connection	3.2V50Ah, 1P8S	3.2V104Ah, 1P8S	CB54173200EA-205Ah, 1P8S
Nominal Voltage [V]	25.6	25.6	25.6
Nominal Capacity [Ah]	50	100	200
Total Energy [Wh]	1280	2560	5120
Max. Charging Current [A]	50	100	150
Recommended Charging Current [A]	25	50	100
Charging Voltage [V]	28.4~29.2	28.4~29.2	28.4~29.2
Max. Discharging Current [A]	50	100	150
End of Discharge Voltage [V]	22.4	22.4	22.4
Operating Temperature Range	G1: Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C G2&G3: Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C G2&G3 With Heater: Charge/Discharge -20~+55°C		
Protection	Over charge, Over discharge, Over temperature, Low Temperature, Over Current, Short circuit		
Cycle Life ¹	>2000 cycles >4000 cycles	>3500 cycles	>3500 cycles
Designed Calendar Life	10 Years		
Communication Port	G1&G2:N/A; G3:RS485; CAN		
LED Indicator and Button	G1:NA; G2&G3: SOC, ALM, RUN, ON/OFF		
Dimension (W*D*H, mm)	330*172*214	522*240*219	522*240*219
Weight [Kg]	11	20.5	38.5
Operation Humidity	0~95% RH (No condensing)		
IP Class	G1&G2:IP65; G3:IP30		
Parallel Support ²	Yes, Max, 4Sets		
Series Support	Yes, Max. 2 Sets		
Certification-Cell	2000 cycles life cell: UN38.3 4000 cycles life cell: UN38.3; UL1973	UN38.3; ROHS; IEC62619; UL1973; UL9540A	UN38.3; ROHS;UL2580
Certification-Battery	UN38.3; MSDS; CE;		
Optional Parts	G1: Internal Bluetooth Module G2:Internal Bluetooth Module, Heater G3:Internal Bluetooth Module, Heater,External Bluetooth Module,External Display Module,RS485-USB Device		

Note:

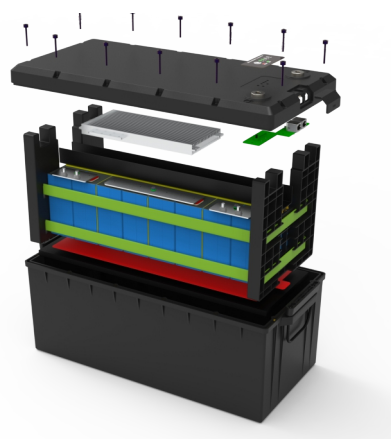
(1) 0.5C/0.5C, 25°C, 80%DOD to 80% of initial capacity.

(2) For parallel and series connection, refer to user manual.

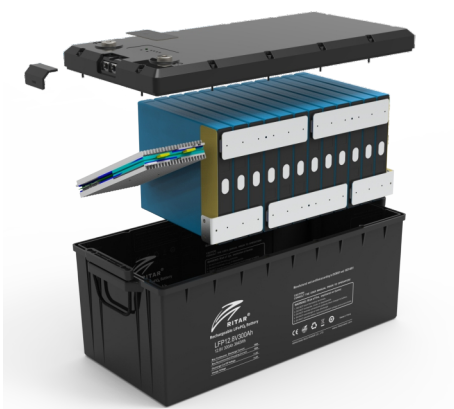
12.8V100Ah



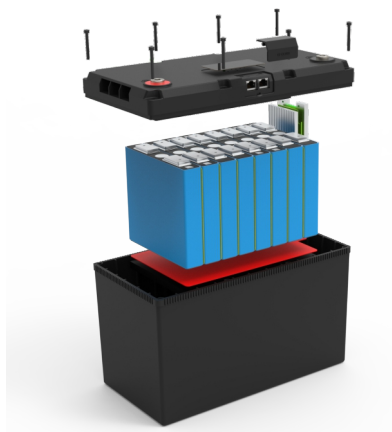
12.8V200Ah



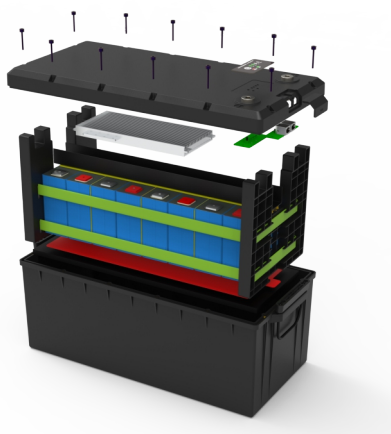
12.8V300Ah



25.6V50Ah



25.6V100Ah



Rack Mounted Li-ion Battery

48V/51.2V 100Ah 3U



SAFETY

- + Long life type prismatic LiFePO₄ cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: UN38.3, ROHS, IEC62619, UL 1973 and UL9540A
- + Battery certification: UN38.3, MSDS, CE

DESIGN

- + Standard 19" rack design, 3U in height.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.

SCALABILITY

- + Parallel support for more energy.
- + Different power connector for residential energy storage and telecom market.
- + Communication compatible with the major inverter manufacturers and rectifier manufacturers.

BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.

48V/51.2V 100Ah 3U

Specification

Part Number		
Model	R-LFP48V100Ah	R-LFP51.2V100Ah
Nominal Voltage [V]	48.0	51.2
Nominal Capacity [Ah]	100	100
Total Energy [Wh]	4800	5120
Dimension (W*D*H, mm)	442*400*130.5	442*400*130.5
Weight [Kg]	40.0	45.0
Max. Charging Current [A]	100	100
Recommended Charging Current [A]	50	
Max. Discharging Current [A]	100	100
Pulse Discharge Current	150A @2S	150A @2S
Charging Voltage [V]	52.5~54.0	55.2~57.6
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)	44.8 (Backup Application) / 48 (Cycle Application)
Internal Resistance [mΩ]	<10	
Operation Humidity	0~95% RH (No condensing)	0~95% RH (No condensing)
Operating Temperature Range	Standard Product: Charge: 0~+55°C; Discharge: -20~+55°C With Optional Heater: Charge / Discharge: -40~+55°C	Standard Product: Charge: 0~+55°C; Discharge: -20~+55°C With Optional Heater: Charge / Discharge: -40~+55°C
Cycle Life ⁽¹⁾	>3500	>6000
Designed Calendar Life	10 Years	10 Years
Communication interface	RS485, CAN	RS485, CAN
Protection	Over voltage, Low voltage, Over current, Over Temperature, Low Temperature, Short circuit	
Parallel Support ⁽²⁾	Yes, Max. 15 Sets	Yes, Max. 15 Sets
Series Support	Not support	Not support

Note:

Normally the Li-ion battery operation temperature range is: discharge -20~+55°C, charge 0~+55°C, If the heater is installed, 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.

Residential Energy Storage

10KWH - 51.2V200Ah



SAFETY

- + Long life type prismatic LiFePO₄ cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: UN38.3, ROHS, IEC62619, UL 1973 and UL9540A
- + Battery certification: UN38.3, MSDS, CE

SCALABILITY

- + Parallel support for more energy.
- + Max. 200A larger current .
- + Communication compatible with major inverter (SMA, Victron, Megarevo, Growatt, DEYE, Voltronic, Afore, Phocos, EPEVER, MUST, INHENERGY).

DESIGN

- + IP65 water-proof design, suitable for outdoor.
- + Flexible and easily installation, support wall mounted.
- + -20~+55°C widely temperature range.
- + Maintenance free.
- + Cycle life >6000 cycles.

BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, RUN, ALARM display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.
- + RS485, CAN communication port for inverter.

10KWH - 51.2V200Ah

Specfication

Part Number	
Model	RESS-10KWH-51.2V
Nominal Voltage [V]	51.2
Nominal Capacity [Ah]	200
Total Energy [Wh]	10.24
Dimension (W*D*H, mm)	560*150*865
Weight [Kg]	113.5
Max. Charging Current [A]	100
Max. Discharging Current [A]	200
Pulse Discharge Current	220A @60S, 240A @10S
Charging Voltage [V]	55.2~57.6
End of Discharge Voltage [V]	44.8 (Backup Application) / 48 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C With Optional Heater: Charge / Discharge: -30 ~ +55°C
Cycle Life ⁽¹⁾	>6000
Designed Calendar Life	10 Years
Communication interface	RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support ⁽²⁾	Yes, Max. 6 Sets
Series Support	Not support
Optional Part	Bluetooth Module, Heater parts (400W), Distribution box (for parallel connection)

Note:

(1) 25°C, 0.5C/0.5C, 90%DOD and 70% EOL

(2) For parallel connection, an additional combiner box is recommended.



Distribution box for parallel.



Power connector.
Communication Port.
LED display for SOC,
Alarm and Failure