

12.8V100Ah Mini





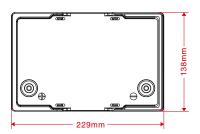


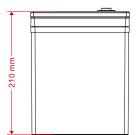


LiFePO4 BATTERY



Dimension:











Unit: mm

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + Cell certification: ROHS, IEC62619, UL1973, UL9540A
- + Battery certification: UN38.3, MSDS, IP65, ISTA 2A
- + The cycle life over 3500 times

💥 DESIGN

- + ABS container, replace VRLA battery perfectly.
- + IP 65 Class,
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM

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



12.8V100Ah Mini

SPECIFICATION

Model	R-LFP12.8V100AH
Cell and Connection	3.2V100Ah, 1P4S
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]	100A (Continuous) / 300A@5s
End of Dicharge Voltage [V]	11.2
Operating Temperature Range	Charge: 0 ~ +50°C 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	/
LED Indicator and Button	1
Dimension (W*D*H, mm)	229*138*210
Weight [Kg]	9.9
Operation Humidity	0~95% RH (No condensing)
IP Class	IP65
Parallel Support ²	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973
Certification-Battery	UN38.3; MSDS, IP65, ISTA 2A, Salt Spray test (ISO 9227:2022) ;

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 -100A

BMS Detail Information		
Over-Charge Protection		
Over-Charge Protection	3.75V± 25mV(For cell)	
Over-Charge Protection Delay	500~1500 ms	
Over-Charge Release	3.55V± 50mV(For cell)	
Over-Discharge Protection		
Over-Discharge Protection	2.2V±80mV(For cell)	
Over-Discharge Protection Delay	500~1500 ms	
Over-Discharge Release	2.7V± 100mV(For cell)	
Over Current Protection		
Charge Over Current Protection	110A± 10A	
Charge Over-Current Protection Delay	500~1500 ms	
Charge Over Current Protection Release	Disconnect charger or Discharge	
Discharge Over Current Protection	550A± 50A	
Discharge Over Current Protection Delay	500~1500 ms	
Discharge Over Current Protection Release	Disconnect load or Charge	
Over Temperature Protection		
Charge Low Temperature Protection	0±2°C	
Charge Low Temperature Protection Release	3±2°C	
Charge High Temperature Protection	50±2°C	
Charge High Temperature Protection Release	47±2°C	
Discharge High Temperature Protection	67±2°C	
Discharge High Temperature Protection Release	52±2°C	
BMS High Temperature Protection	90±5°C	
BMS High Temperature Protection Release	65±15°C	
Short Circuit Protection		
Short Current Protection Delay Time	200~300 uS	
Short Current Release Method	Disconnect load	



12.8V100Ah -100A

INTERNAL STRUCTURE DIAGRAM



- (1) Cover-ABS
- (2) Handle
- 3 Hexagon socket screws M8*12
- 4 BMS (RD-ZY4S100A-JP)
- (5) Cells, 3.2V100Ah, 1P4S
- (6) Case: ABS