

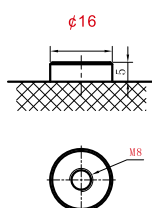
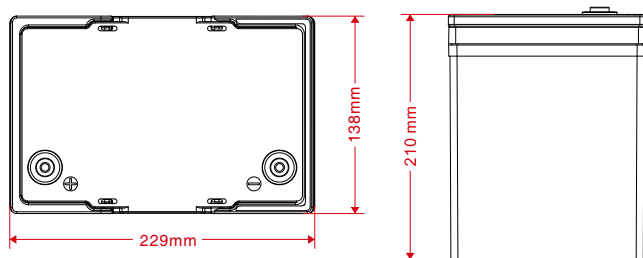
LI100A12PRO

12.8V 100AH 1280WH

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.

LI100A12PRO

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 Discharge 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	/
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:

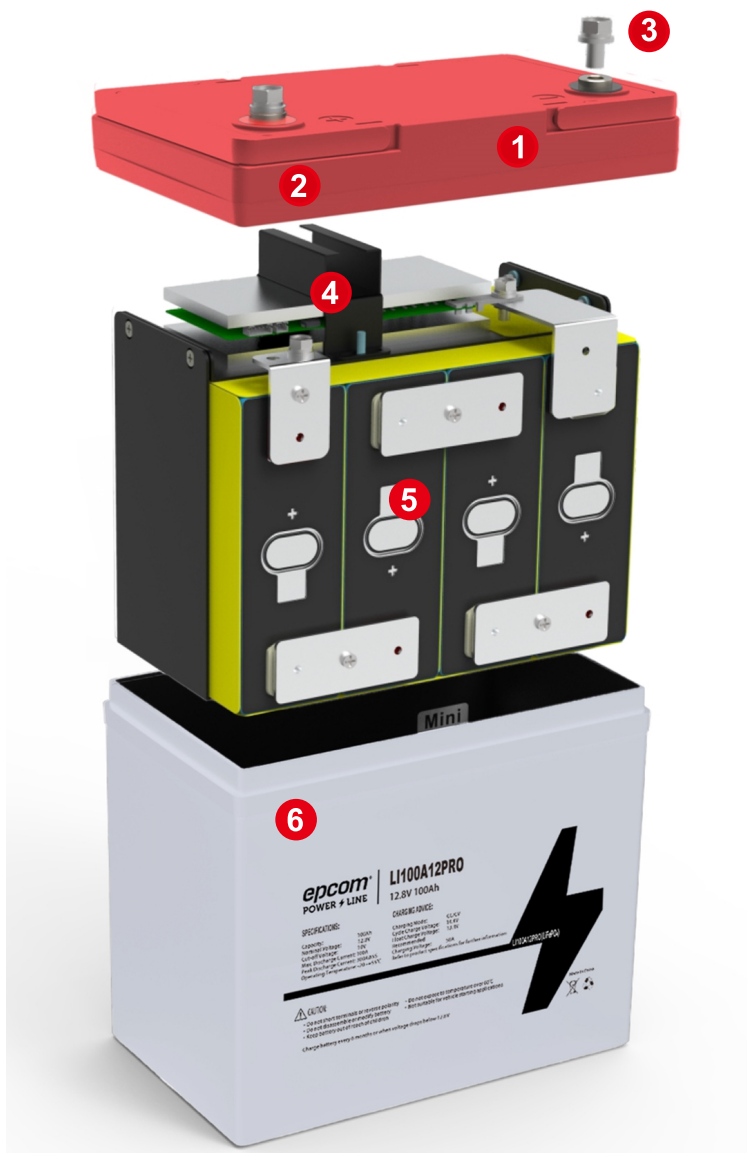
- 0.5C /0.5C ,25°C, 80%DOD to 80% of initial capacity.
- For parallel and series connection, refer to user manual.

LI100A12PRO

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

LI100A12PRO

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