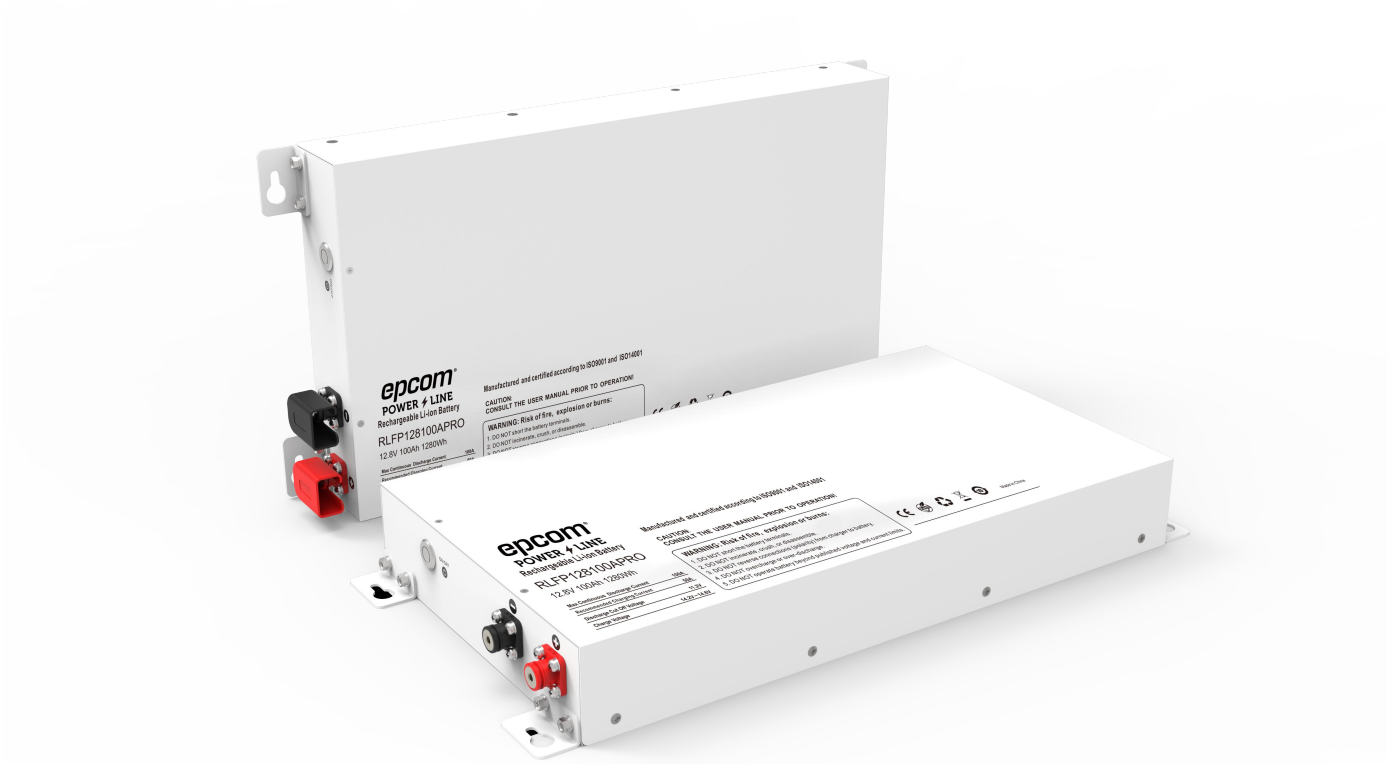
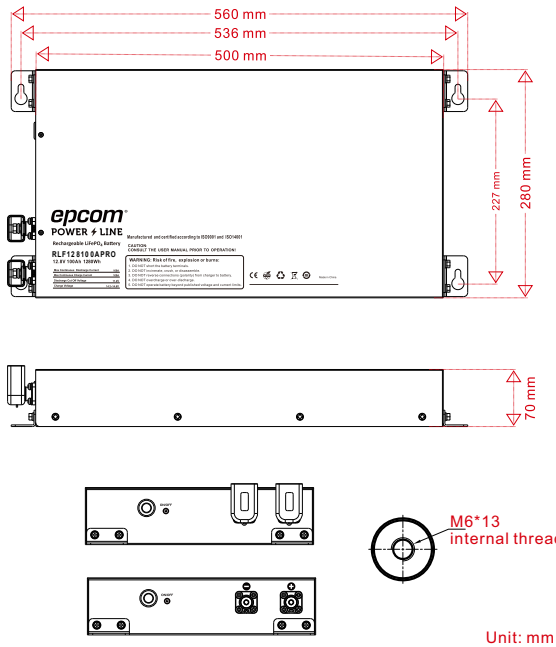
12.8V100Ah

Block Type LiFePO4 BATTERY



Dimension:



SAFETY

+ Long life type prismatic LiFePO4 cells, suitable for energy storage application.
+ Low voltage system, safety for application.
+ Cell certification: IEC62619, UL1973,UL9540A, ROHS.
+ Battery certification: UN38.3, MSDS.
+ Cycle life >3500 cycles.

DESIGN

+ Flexible and easily installation, support wall mounted.
+ IP 52 Class,
+ Maintenance free.

BATTERY MANAGEMENT SYSTEM

+ Integrated Hardware BMS inside.
+ Independent protection for charge and discharge.
+ OVP, LVP, OCP, OTP, LTP protection.
+ ON/OFF Button, safety for installation.

Ver V3.0 Publish Date: 2026-06-01

12.8V100Ah

SPECIFICATION

Model	RLFP128100APRO
Cell and Connection	CB79, 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]	100
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,
Cycle Life (1)	>3500 cycles
Designed Calendar Life	10 Years
Communication Port	/
LED Indicator and Button	ON/OFF button No LEDs indicator
Dimension (W*D*H, mm)	560*280*70
Weight [Kg]	15
Operation Humidity	0~95% RH (No condensing)
IP Class	IP52
Parallel Support (2)	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets
Certification-Cell	UN38.3; ROHS; UL
Certification-Battery	UN38.3; MSDS
Optional Parts	/

Note:
(1) 25°C ,0.5C/0.5C, 90%DOD and 70% EOL
(2) For parallel connection operation, refer to user manual.
(3) For series connection, it won't support communication.

The datasheet is subject to change without prior notification

epcom POWER LINE

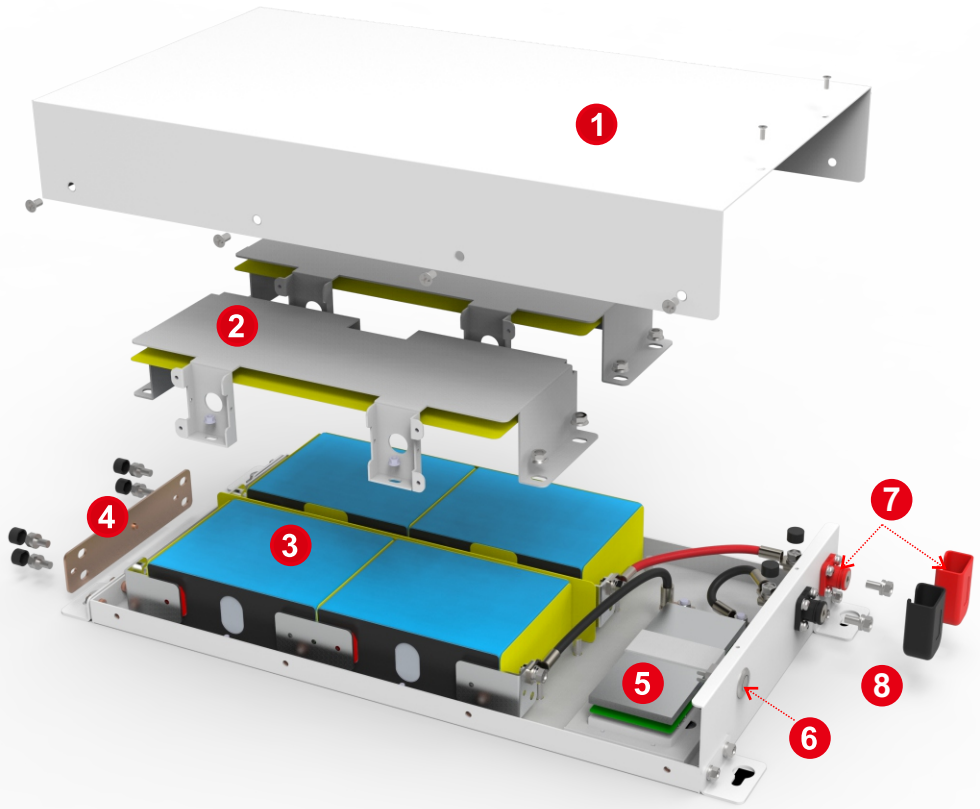
12.8V100Ah -100A

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
ON/OFF Button	
Press Down - ON	BMS is activated and battery output normal
Up- OFF	BMS is off and battery output is no voltage, Shipping mode.

12.8V100Ah -100A

INTERNAL STRUCTURE DIAGRAM



① Battery Cover-SPCC with spraying

② Cells pack fixing material-SPCC with spraying

③ Cells, 3.2V100Ah, 1P4S

④ Cells series copper busbar

⑤ BMS

⑥ ON/OFF self-locking button

⑦ Power terminal-M6 internal thread

⑧ Screws for power terminal- M6*12