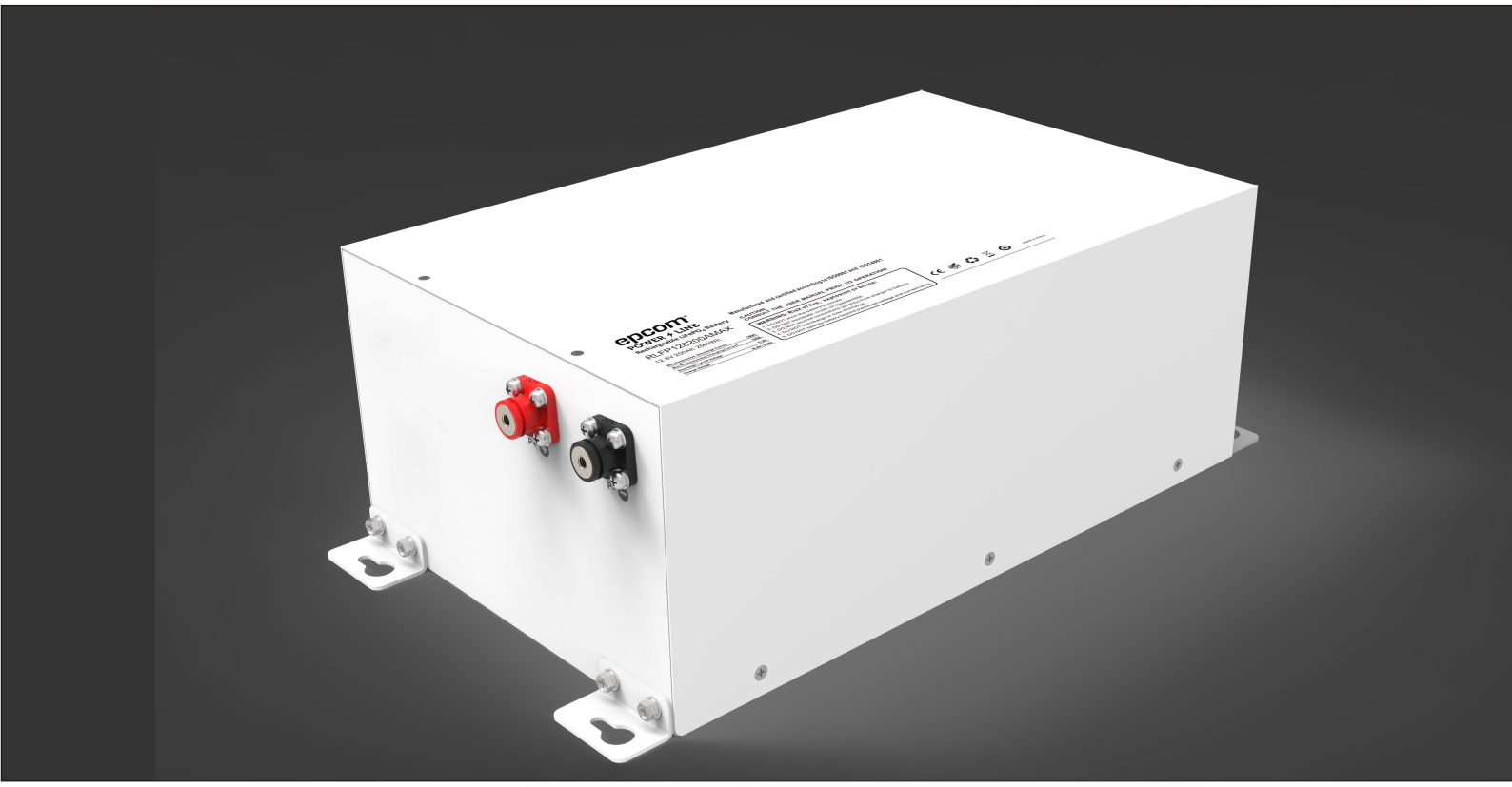
epcom POWER LINE

RLFP128100AMAX 12.8V200Ah

BLOCK TYPE LI-ION BATTERY



SAFETY

+ Long life type prismatic LiFePO4 cells, suitable for energy storage application.
+ Low voltage system, safety for application.
+ Battery certification: UN38.3, MSDS
+ Cycle life >5000 cycles.

DESIGN

+ Flexible and easily installation, support wall mounted.
+ -20~+55°C widely temperature range.
+ Parallel support for more energy.
+ OVP, LVP, OCP, OTP, LTP protection.

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PARAMETERS

Model	RLFP128200AMAX
Cell and Connection	3.2V100Ah 2P4S
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	200
Total Energy [Wh]	2560
Max. Charging Current [A]	100
Recommended Charging Current [A]	60
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, Short circuit
Cycle Life (1)	>5000 cycles
Designed Calendar Life	10 Years
Dimension (W*D*H, mm)	400*250*160
Weight [Kg]	24
Operation Humidity	0~95% RH (No condensing)
IP Class	IP30
Parallel Support (2)	Yes, Max, 4Sets
Series Support	Yes, Max. 4 Sets
Certification-Battery	UN38.3; MSDS

Note:
(1) 25°C ,0.5C/0.5C, 80%DOD and 70% EOL
(2) For parallel connection operation, refer to user manual.
(3) For series connection, it won't support communication.

BMS Parameters

The battery integrate LiFePO4 type Battery Management System (BMS) inside which can monitor and optimize each single prismatic cell during charge & discharge and protect the battery pack from overcharge**,** over discharge**, BMS h**igh temperature**, discharge over current and short circuit. Overall, the BMS** helps to ensure safe and accurate operation of the battery.

Over-Charge Protection	
Over-charge Protection Per Cell	3.70V ± 0.05V
Over-charge Protection Delays	500~1000ms
Over-charge Release Per Cell	3.55V ± 0.05V
Over-charge Release Method	Discharge to below release voltage
Over-Discharge Protection	
Over-discharge Protection Per Cell	2.20V ± 0.1V
Over-discharge Protection Delays	500~1000ms
Over-discharge Release Per Cell	2.70V ± 0.1V
Over-discharge Release Method	charge to above release voltage
Over Current Protection	
Charge Over Current Protection	110A± 10A @ 500~1000ms
Charge Over Current Protection Release Method	Disconnect charger or discharge battery
Discharge Over Current Protection	550± 50A @ 500~1000ms
Discharge Over Current Protection Release Method	Disconnect load
Over Temperature Protection	
Charge Over Temperature Protection	50±2°C
Charge Over Temperature Protection Release	47±2°C
Charge Low Temperature Protection	0±3°C
Charge Low Temperature Protection Release	3±2°C
Discharge Over Temperature Protection	67±2°C
Discharge Over Temperature Protection Release	67±2°C
Discharge Low Temperature Protection	N/A
Discharge Low Temperature Protection Release	N/A
Protection Release Method	N/A
BMS High Temperature Protection	90±5°C
BMS High Temperature Protection Release	65±15°C
Protection Release Method	Reach release temperature
Short Circuit Protection	
Short Circuit Protection	Short circuit of external load
Short Circuit Protection Delays	200~320 uS
Short Circuit Protection Release Method	Disconnect load

DIMENSION RLFP128200AMAX