

# 48V 100AH

**epcom**<sup>®</sup>  
POWER ⚡ LINE

## RLB10048MAX

Power capacity: 4.8kWh

Weight: 40 kg

Cycle life: ≥3500 (100% DOD)

Max charging/discharging current: 100A

Parallel Support: Max 15 units



### SAFETY

- + Long life type prismatic LiFePO<sub>4</sub> cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: UN38.3, ROHS, IEC62619, UI1973 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.
- + Optional: MCB-125A, Heater-100W, Anti-theft module.
- + 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.
- + RS485, CAN communication port.

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### RACK MOUNTED LI-ION BATTERY SPECIFICATION

Part Number	RLB10048MAX
Model	48V 100Ah
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	40.0
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	150A @2S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range <sup>(1)</sup>	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C With Optional Heater: Charge / Discharge: -40 ~ +55°C
Cycle Life	>3500
Designed Calendar Life	10 Years
Communication interface	RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support

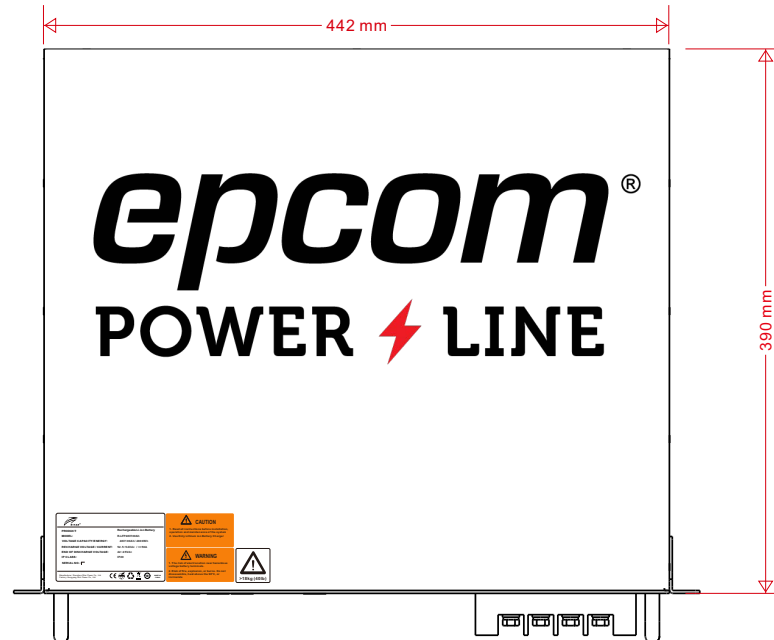
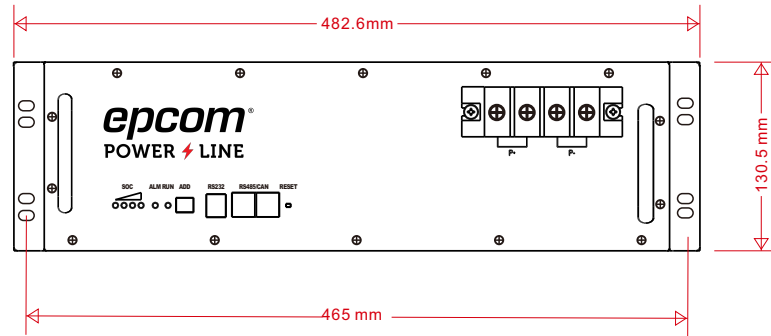
**Note:**

(1) 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.

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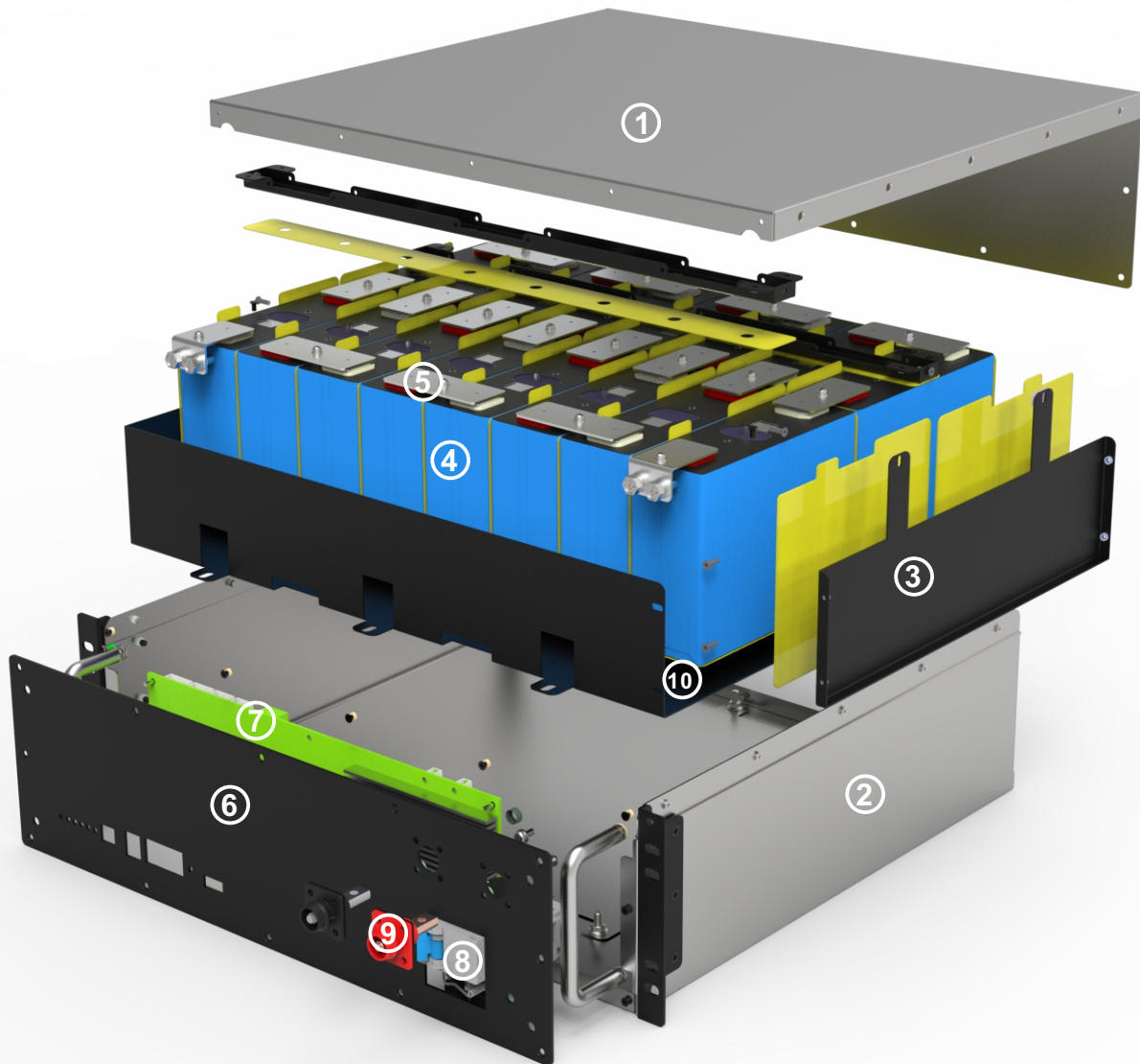
**Dimension**



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INTERNAL STRUCTURE



- |  |   |
|--|---|
| ① Battery cover-Galvanized plate                       | ⑥ Front panel   |
| ② Battery container-Galvanized plate                   | ⑦ BMS- support 100A current   |
| ③ Module structural parts                              | ⑧ Optional- MCB   |
| ④ Cells - 3.2V100Ah,<br>1P15S for 48V, 1P16S for 51.2V | ⑨ Power connector<br>1.Quick Lock and Press-to- Release Terminal<br>2. Feed-Through Terminal-100A |
| ⑤ Laser welded aluminum row                            | ⑩ Optional-Heater   |

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Power Terminal



Quick Lock and Press-to-Release Terminal



Feed-Through Terminal-100A