

RLB10048PRO

48V100Ah 3U



RACK MOUNTED LI-ION BATTERY



SAFETY

- + Long life type prismatic LiFePO₄ 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



SCALABILITY

- + Parallel support for more energy.
- + Communication compatible with the major inverter manufacturers **and rectifier manufacturers**



DESIGN

- + Standard 19" rack design, 3U in height.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.



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.

48V100Ah 3U

RACK MOUNTED LI-ION BATTERY SPECIFICATION

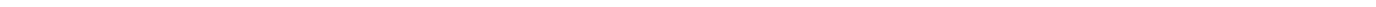
Part Number	RLB10048PRO
Model	RLB10048PRO
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	40.0
Max. Charging Current [A]	100
Max. Discharging Current [A]	100
Pulse Discharge Current	150A @2S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
(1)	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C
Operating Temperature Range	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.

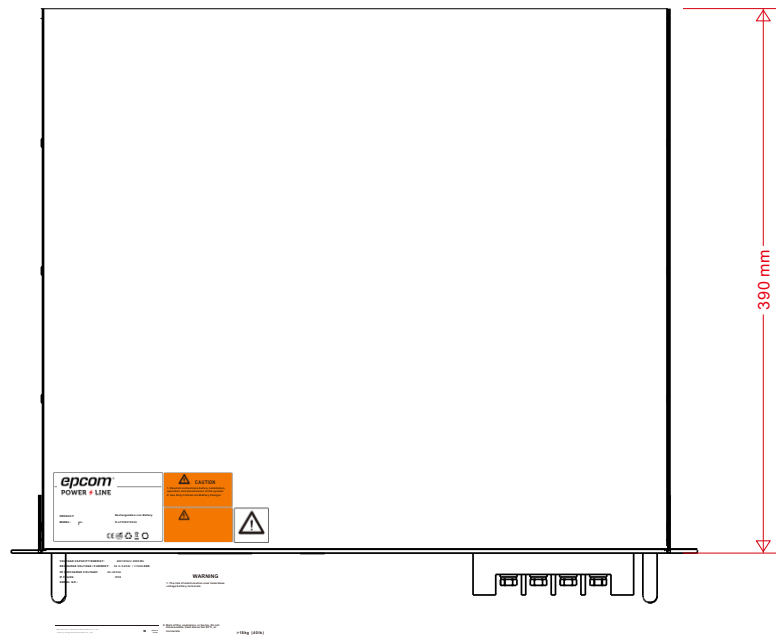
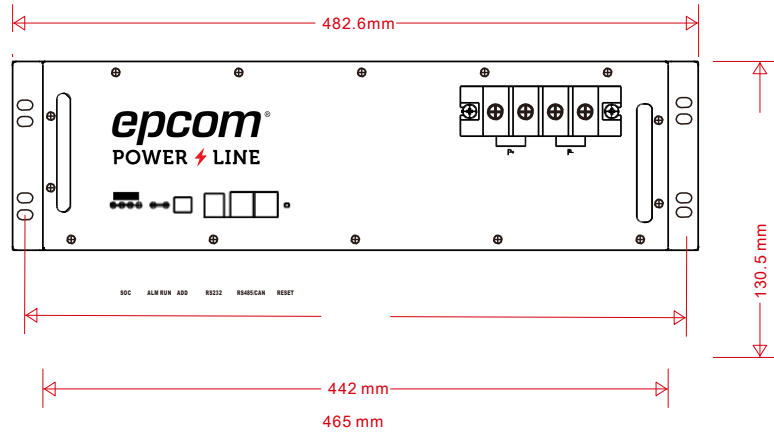
Li-ion Battery

The datasheet is subject to change without prior notification



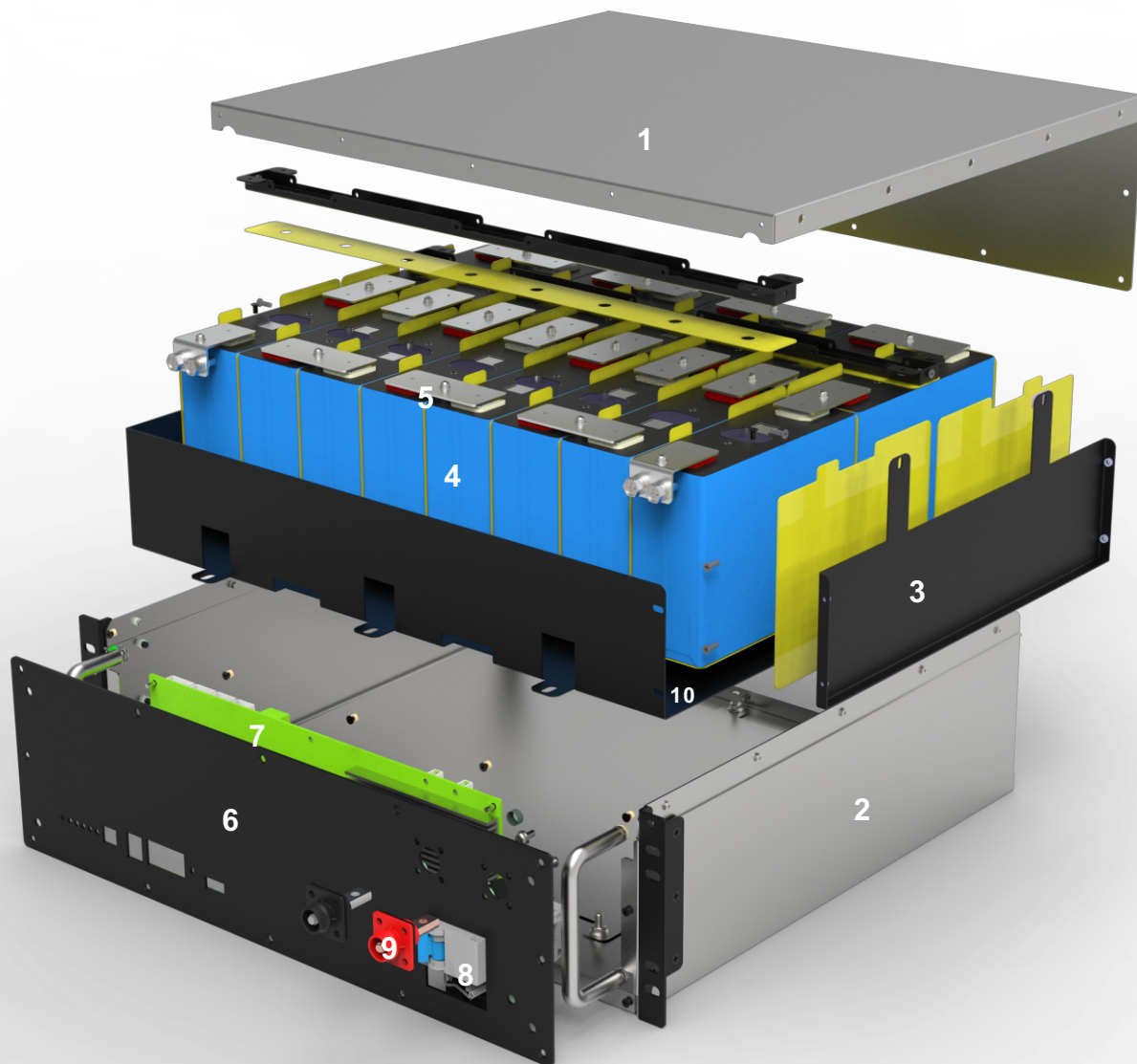
Li-ion Battery

Dimension



48V100Ah 3U

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 - 3.2V104Ah,
1P15S for 48V, 1P16S for 51.2V | ⑨ Power connector
1.Quick Lock and Press-to- Release Terminal
2. Feed-Through Terminal-100A |
| ⑤ Laser welded aluminum row | ⑩ Optional-Heater (Not available at the moment) |

Li-ion Battery

48V100Ah 3U

Power Terminal



Quick Lock and Press-to-Release Terminal



Feed-Through Terminal-100A
