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RLB10048PRO
48V100Ah 3U

RACK MOUNTED LI-ION BATTERY

SAFETY

+ Long life type prismatic $LiFePO_4$ 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.
+ Different power connector for residential energy storage and telecom market.
+ Optional: MCB-125A, Heater-100W, Anti-theft module.
+ Communication compatible with the major inverter manufaturers and rectifier manufacturers

DESIGN

+ Standard 19" rack design, 3U in height.

BATTERY MANAGEMENT SYSTEM

+ Independent protection for charge and discharge.

ish Date: 2022-04-20

LI-ION BATTERY

- Flexible and easily installation.
- -20~+55°C widely temperature range.
- Maintenance free.
- 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	9010480010001
Model	R-LFP48V100Ah
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 Dicharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range (1)	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.

Li-ion Battery

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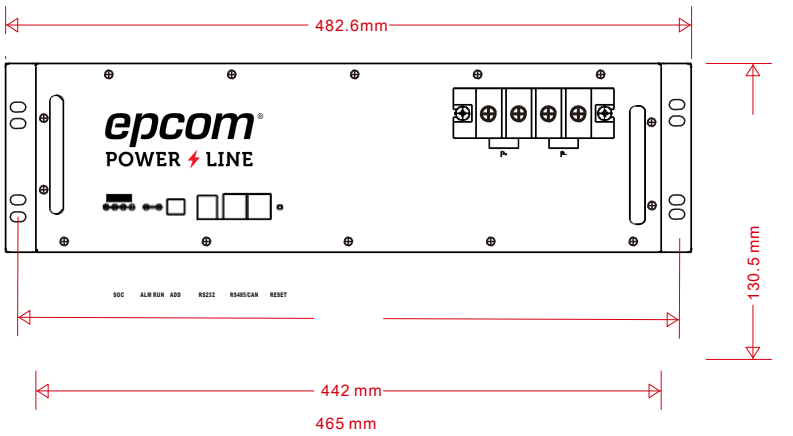
The datasheet is subject to change without prior notification

Dimension


482.6mm
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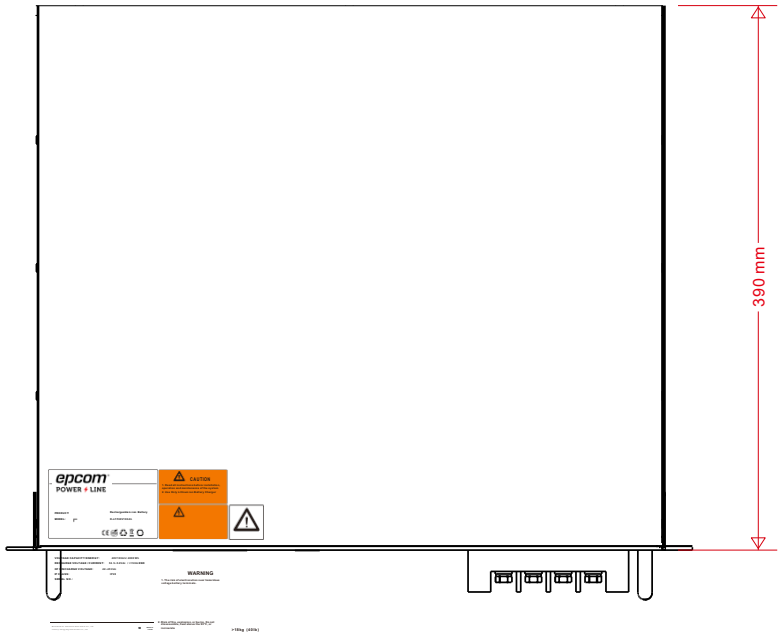
POWER LINE
SOC ALM RUN ADD RS232 RS485/CAN RESET
130.5 mm
442 mm
465 mm


390 mm
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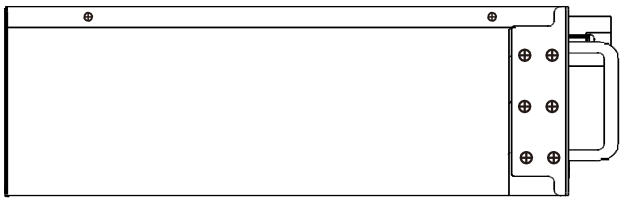
CAUTION
WARNING



Li-ion Battery

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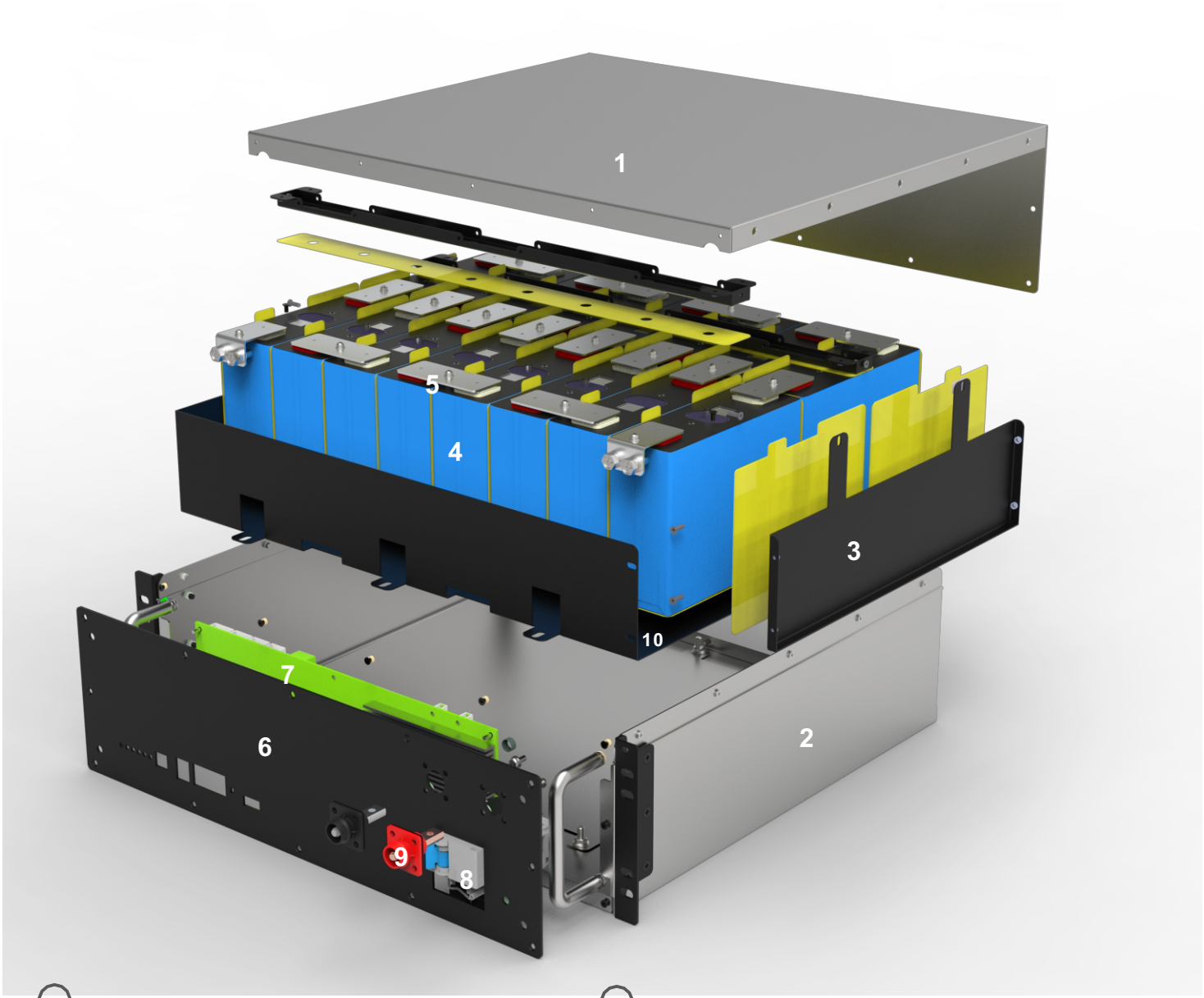
INTERNAL STRUCTURE



1. Battery cover-Galvanized plate
2. Battery container-Galvanized plate
3. Module structural parts
4. Cells - 3.2V104Ah,
   1P15S for 48V, 1P16S for 51.2V
5. Laser welded aluminum row
6. Front panel
7. BMS- support 100A current
8. Optional- MCB
9. Power connector
   1.Quick Lock and Press-to- Release Terminal
   2. Feed-Through Terminal-100A
10. Optional-Heater

Li-ion Battery

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Power Terminal

Quick Lock and Press-to- Release Terminal

Feed-Through Terminal-100A