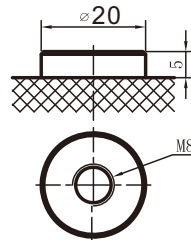
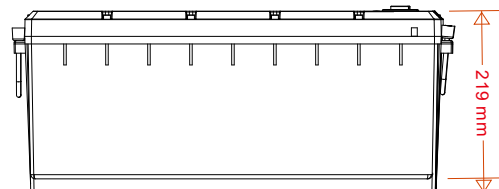
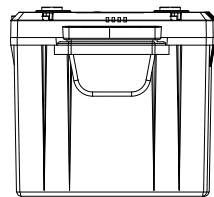
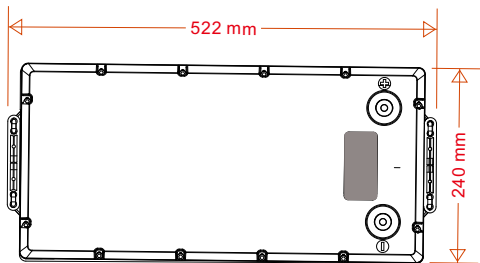


25.6V 100AH

LI100A24PRO

epcom®
POWER ⚡ LINE



DESIGN

- + Detachable case, better than traditional case.
- + Case material ABS+PC, better and stronger than ABS case.
- + Maintenance free.

SAFETY

- + Long life type prismatic LiFePO4 cells.
- + Cell certification: UN38.3, ROHS, IEC62619, UL1973
- + Battery certification: UN38.3, MSDS.
- + The cycle life over 3500 times.

BATTERY MANAGEMENT SYSTEM

- + Integrated BMS inside.
- + Independent protection for charge and discharge.
- + OVP, LVP, OCP, OTP, LTP, OTP, Short circuit protection.

25.6V 100AH

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Model	LI100A24PRO
Nominal Voltage [V]	25.6
Nominal Capacity [Ah]	100
Total Energy [Wh]	2560
Max. Charging Current [A]	100
Recommended Charging Current [A]	50
Charging Voltage [V]	28.4~29.2
Max. Discharging Current [A]	100
End of Discharge Voltage [V]	22.4
Operating Temperature Range ⁽¹⁾	Charge: 0 ~ +50°C; Discharge: -20 ~ +55°C With optional heater parts: Charge/Discharge -20~+55°C
Protection	Over charge Over discharge, Over temperature, Low Temperature, Over Current, Short circuit
Cycle Life ⁽²⁾	>3500 cycles
Designed Calendar Life	10 Years
Dimension (W*D*H, mm)	522*240*219
Weight [Kg]	21.6
Operation Humidity	0~95% RH (No condensing)
Communication Port	RS485; CAN
LED Indicator and Button	SOC, ALM, RUN, ON/OFF
IP Class	IP30
Parallel Support ⁽³⁾	Yes, Max, 4Sets
Series Support	Yes, Max. 2 Sets
Certification-Cell	UN38.3; ROHS; IEC62619; UL1973;
Certification-Battery	UN38.3; MSDS; CE

Note:

(1) Normally the Li-ion battery operation temperature range is : discharge -20~+55°C, charge 0~+55°C, If the optional heater is stalled, 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. With Optional Heater: Charge / Discharge: -20 ~ +55°C , the charger power should be above than heater parts power consumption.

(2) 25°C ,0.5C/0.5C, 100%DOD and 80% EOL

(3) For parallel and series power cable connection, refer to user manual.

25.6V 100AH



BMS Detail Information

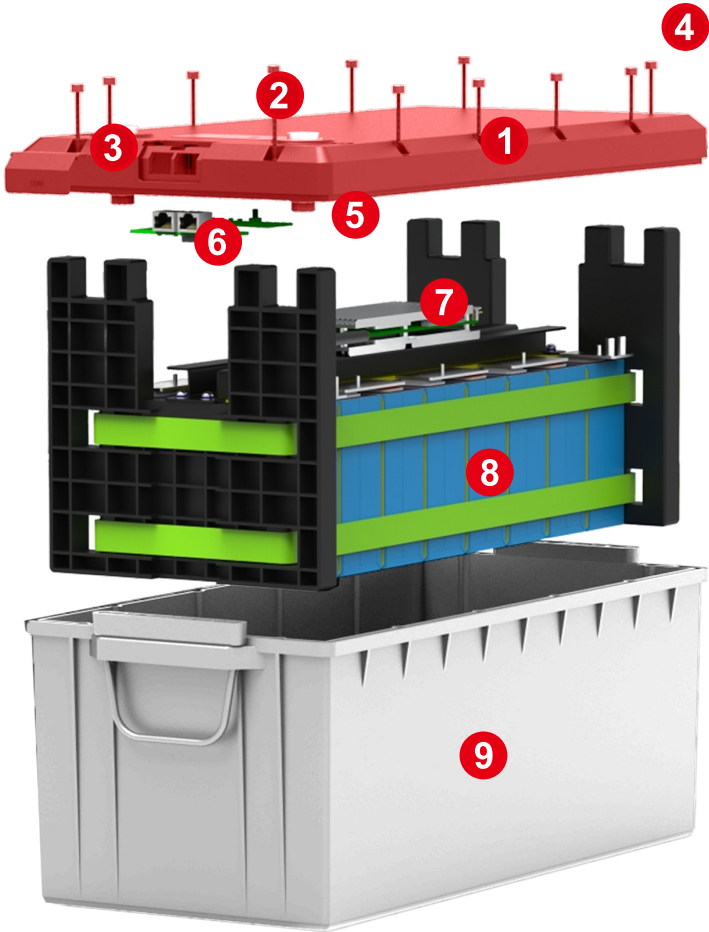
Over-Charge Alarm & Protection		
Over-Charge Alarm	3.55V (For cell) 28.4V (For pack)	
Over-Charge Protection	3.7V (For cell) 29.6V (For pack)	
Over-Charge Protection Delay	1000 ms	
Over-Charge Release	3.45V (For cell) 27.6V (For pack)	
Over-Discharge Alarm & Protection		
Over-Discharge Alarm	2.8V (For cell) 22.4V (For pack)	
Over-Discharge Protection	2.5V (For cell) 20V (For pack)	
Over-Discharge Protection Delay	1000 ms	
Over-Discharge Release	2.8V (For cell) 22.4V (For pack)	
Over Current Alarm & Protection		
Charge Over Current Alarm	105A	
Charge Over Current Protection	110A	
Charge Over-Current Protection Delay	15S	
Charge Over Current Protection Release	Automatic release after 1min and up to 3 times or Discharge	
Discharge Over Current Alarm	110A	
Discharge Over Current Protection-1	120A	
Discharge Over Current Protection-1 Delay	15S	
Discharge Over Current Protection-2	180A	
Discharge Over Current Protection-2 Delay	200ms	
Discharge Over Current Protection Release	Automatic release after 1min and up to 3 times or Charge	
Over Temperature Alarm & Protection		
Charge Low Temperature Alarm	7°C	
Charge Low Temperature Protection	0°C	
Charge Low Temperature Protection Release	5°C	
Charge High Temperature Alarm	50°C	
Charge High Temperature Protection	55°C	
Charge High Temperature Protection Release	45°C	
Discharge Low Temperature Alarm	-10°C	
Discharge Low Temperature Protection	-20°C	
Discharge Low Temperature Protection Release	-17°C	
Discharge High Temperature Alarm	55°C	
Discharge High Temperature Protection	60°C	
Discharge High Temperature Protection Release	50°C	
Short Circuit Protection		
Short Current Protection Delay Time	1500 uS	
Short Current Release Method	Release load	
Heater Control (for optional heater parts)		
Heater ON	Cell temperatures 0°C and charger is connected	
Heater OFF	Cell temperature >10°C	

25.6V 100AH

LI100A24PRO



INTERNAL STRUCTURE DIAGRAM



- ① Detachable cover-ABS+PC
- ② ON/OFF button and LEDs
- ③ Communication port cove
- ④ Hexagon socket screws
- ⑤ PC Film

- ⑥ Communication board
- ⑦ BMS (RD-RJ8S100A)
- ⑧ Cells, 1P8S
- ⑨ Case : ABS+PC