



Introduction

E-BOX series, the new generation LFP battery for home energy storage system. It provides safe, well-designed and high-performance standard LFP battery pack for you. The battery pack is compact, easy to install, free of maintenance and used as the building block of energy storage system by assembling in parallel. It is widely applied in home applications, small commercial and industrial energy storage system as well as Telecom stations.

Features



Self-Consumption

store excess energy generated by solar panels and use it whenever needed



Back-Up Power Supply

provide emergency power supply during grid outage



Electricity Bills Reduction

charge the battery during off-peak period and discharge the battery during peak period



Smart Energy Management

measure, monitor and manage the system in real-time
optimize the system life span by intelligent algorithms



Longest Life and Highest Safety

more than 6000 cycles @90%DOD



Wide Compatibility

compatible with 16 mainstream inverters in the market

10 Years Warranty



UN38.3



E-BOX-4850 48V50Ah 2.4kWh

440mm * 420mm * 89mm (2U)

17.32in * 16.54in * 3.50in



51.2V100Ah 5.12kWh E-BOX-48100R

440mm* 620mm * 117mm (2.6U)

17.32in * 24.41in * 4.61in

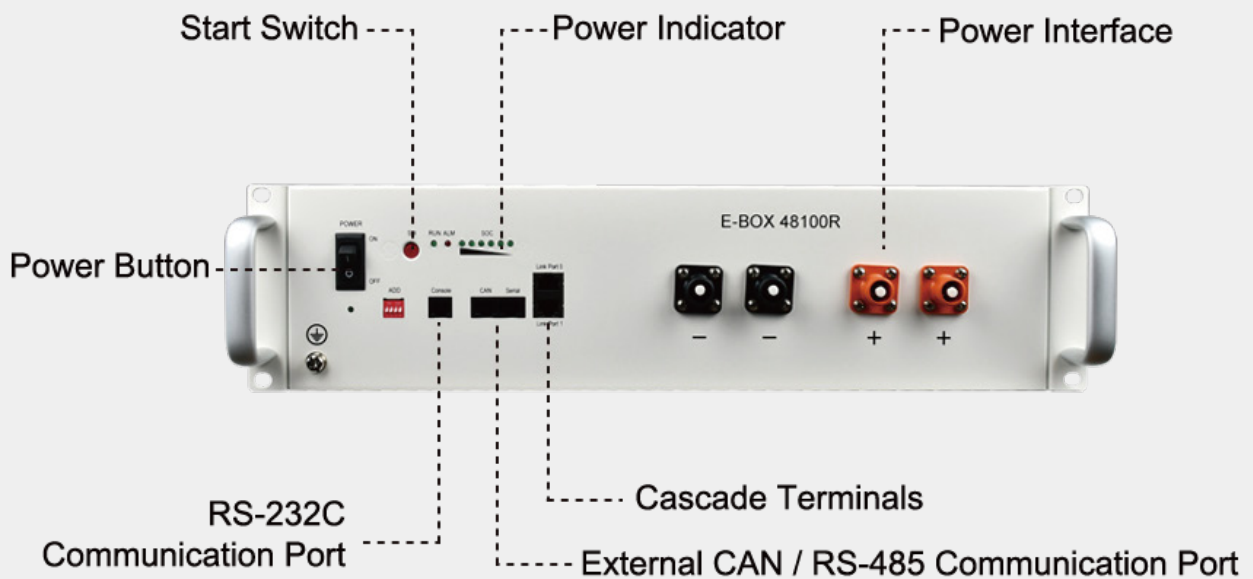
E-BOX-48100C 48V50Ah 2.4kWh

440mm * 480mm * 200mm (4.5U)

17.32in * 18.90in * 7.87in



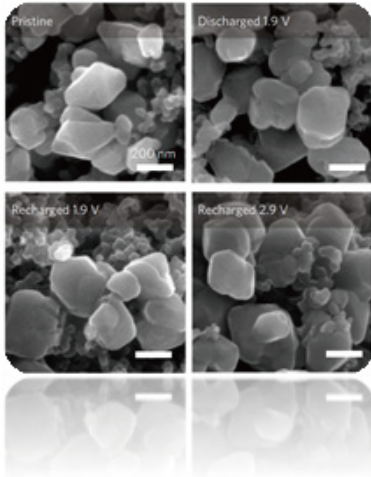
Operation Panel



Technical Specifications

Battery Model	E-BOX-48100R	E-BOX-4850	E-BOX-48100C
Chemistry	LFP	LFP	LFP
Nominal Voltage	51.2V	48V	51.2V
Voltage Range	47.5V-58V	45V-54V	47.5V-58V
Nominal Capacity	100Ah	50Ah	100Ah
Nominal Energy	5.12kWh	2.4kWh	5.12kWh
Unit Dimension	440mm* 620mm *117mm 17.32in * 24.41in * 4.61in	440mm* 420mm * 89mm 17.32in * 16.54in * 3.50in	440mm* 480mm * 200mm 17.32in * 18.90in * 7.87in
Unit Weight	51kg/112.5lb	25kg/55.1lb	50.6kg/111.5lb
Standard Charge Current	50A	50A	50A
Maximum Charge Current	50A	50A	50A
Standard Discharge	50A	50A	50A
Maximum Discharge Rate	50A	50A	50A
Round-Trip Efficiency	≥95%	≥95%	≥95%
Communication Protocol	RS232, RS485, CAN	RS232, RS485, CAN	RS232, RS485, CAN
Cycle Life	≥6000cycles	≥6000cycles	≥8000cycles
Calendar Life	≥10years	≥10years	≥10years
Operating Temperature	-10°C~50°C/ 14 ~122	-10°C~50°C/ 14 ~122	-10°C~50°C/ 14 ~122
Connect style	Parallel	Parallel	Parallel
Storage Temperature	< 1month: -20~55°C/ -4°F~131°F 1-3months: 0~35°C/ 32°F~95°F 3-12months: 20~25°C/ 68°F~77°F		





Cells& Packs

- The olivine structure and the stability of P-O bond of LFP cells guarantee much higher safety than those of NCM cells.
- 17 years experiences of pack R&D ensure longer cycle life of the battery.

Self-designed BMS

- Equipped with automotive grade chips by TI® system.
- Double protection by master chips. When the main chip fails, the back-up chip keeps protecting the system.
- Real-time temperature, current, voltage measuring and monitoring.
- Accurate SoC and SoH calculation.



Quality Assurance

- UL1973/ IEC62619/ CE/ UN38.3 Certificates
- TÜV, SGS, BV International Certified Cooperative Testing Laboratories.

Quick Response

Quick local after-sales response/ 24hours*7days.

