

E-BOX-4850



Introduction

E-BOX-4850, 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



Electricity Bills Reduction

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



Self-Consumption

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



Reduce Electricity Bills

Harvest a majority of electricity from the sun instead of purchasing from the grid, especially peak-hour expensive electricity purchase.



Back-up Power Supply

provide the power during grid blackouts.



Technical Specifications

Battery Model	E-BOX-4850
Chemistry	LFP
Nominal Voltage	48V
Voltage Range	45V-54V
Nominal Capacity	50Ah
Nominal Energy	2.4kWh
Unit Dimension	440mm* 420mm * 89mm (2U)
Unit Weight	23kg
Standard Charge Current	25A
Maximum Charge Current	50A
Standard Discharge	25A
Maximum Discharge Rate	50A
Peak Current	70A
Round-Trip Efficiency	≥95%
Communication Protocol	RS485, CAN
Cycle Life	≥6000cycles@0.5C/0.5C @90%DOD, ret@80%, 25℃
Calendar Life	≥10years
Operating Temperature	Charge: 0℃~ 45℃, Discharge: -20℃~55℃
Certificates	IEC62619 / UN38.3
Storage Temperature	Within 1month: -20~45℃,1-3months: -20~35℃,3-12months: 20~25℃
Connect type	Parallel

E-BOX-4850 series of products are widely used in low-voltage household photovoltaic energy storage system and small industrial and commercial energy storage and power storage systems, It is lithium iron phosphate battery with BMS inside.