



ML100-48-W01

Residential LFP Battery Series

48V 100Ah 4.8kWh

A sleek and space-saving solution for your energy storage needs. With its compact design and easy installation, it seamlessly blends into any environment. Whether in your home, office, or commercial space, our wall-mounted unit provides reliable and efficient energy storage.

ML100-48-W01 is a perfect wall-mounted solar energy lithium battery for residential home use. Built-in with High-Quality LiFePO4 large capacity cells. It ensures a long cycle life of the battery system. The designed BMS is verified to be compatible with different brands of inverters, hybrid on grid&off grid or off grid.



FEATURES



Unique Design

New wall mount design



Flexible Capacity

Max.15pcs in Parallel to extend capacity



Safe & Reliable

Lithium Iron Phosphate (LFP) Cell



Touch color LCD



Easy Installation

Quick plug in +/- and parallel connection



Communication

RS232,CAN,RS485



Dimensions



Performance

Nominal Voltage	48Vdc
Nominal Capacity	100Ah
Battery Energy	4800Wh
Charge Voltage	54+-0.2Vdc
Discharge Voltage	43.5Vdc
Nominal Charge/Discharge Current	50A
Nominal Charge/Discharge Power	2400W
Max Charge / Discharge Current	100A
Max Charge / Discharge Power	4800W
Short Circuit Current	350A/3mS

Communication

Display	Touch color LCD
Communication	RS232、RS485、CAN

General Specification

Dimension(WxDxHmm)	475X514X145mm
Weight (Kg)	45KG
Installation	Floor stand or Wall mounted
Charging Temperature Range	0°C ~ 55°C
Discharge Temperature Range	-20°C ~ 60°C
Operating /Storage /humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP21
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	6000 Cycles @ 80% DOD /25°C /0.5C, 60%EOL
Scalability	Max 15 batteries in parallel

Standard Compliance

Certification	
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1. Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C.
2. Charge/discharge derating occurs when the operating temperature from -10°C to 5°C.& 45°C to 55°C.
3. Condition apply. Refer to ML100-48-W01 Warranty Letter.