



ML628-51.2-W01

Residential LFP Battery Series

51.2V 628Ah 32KWh

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.

ML628-51.2-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

Performance

Nominal Voltage	51.2Vdc
Nominal Capacity	628Ah
Battery Energy	32154Wh
Charge Voltage	56±0.2V
Discharge Voltage	46.4Vdc
Nominal Charge/Discharge Current	200A
Nominal Charge/Discharge Power	10240W
Max Charge / Discharge Current	250A
Max Charge / Discharge Power	12800W

Communication

Display	Touch Color LCD
Communication	RS232、RS485、CAN

General Specification

Dimension(W×D×Hmm)	1000x690x243mm
Weight (Kg)	250kg
Installation	Floor stand or Wall mounted
Charging Temperature Range	0°C ~ 55°C
Discharge Temperature Range	-20°C ~ 55°C
Operating / Storage / humidity	≤95%RH
Max Operating Altitude	≤3000m
IP Rating	IP 20
Cell Technology	LiFePO ₄ , Lithium Iron Phosphate
Cycle life	8000 Cycles @ 80% DOD /25°C /0.5C, 60%EOL
Scalability	Max 15 batteries in parallel
Recommended usage environment	Indoor or outdoor under eaves(avoid direct sunlight).

Standard Compliance

Certification

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.