



ML280-51.2-W01 ML314-51.2-W01

Residential LFP Battery Series

The battery is a solar lithium battery for home use. Its intelligent Battery Management System (BMS) can monitor and optimize battery performance in real - time, extend its service life, and enable remote control via a mobile app, making it convenient for you to track your home's energy situation. It is easy to install, and the wall - mounted design saves space. In case of an emergency, it can serve as a power bank to supply power to home appliances, adapting to various scenarios.



FEATURES



Multi-Scenario

- With optional detachable wheels, the battery also offers mobile energy storage functionality
- IP65 protection rating for all-weather use



Longer Life and Safer

- A+ grade lithium iron phosphate
- Built-in hot aerosol fire extinguishing device



Low Maintenance

- Firmware update service via built-in BLE
- Check battery operation status and configure BMS via BLE



Flexible and Expandable

- Up to 16 units in parallel
- The parallel system's max capacity is 128kWh



Certification

- UN38.3.MSDS



Performance

Nominal Voltage	51.2Vdc	
Nominal Capacity	280Ah	314Ah
Battery Energy	14336Wh	16000Wh
Charge Voltage	56+ -0.2V	56+ -0.2V
Discharge Voltage	46.4V	46.4V
Nominal Charge/Discharge Current	140A	150A
Nominal Charge/Discharge Power	7168W	7680W
Max Charge / Discharge Current	200A	200A
Max Charge / Discharge Power	10240W	10240W

Communication

Display	Touch Color LCD
Communication	RS232、RS485、CAN

General Specification

Dimension(W×D×Hmm)	800x500x243mm
Weight (Kg)	130kg
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	IP65
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	
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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 Warranty Letter