



Residential LFP Battery Series

W15-5A

51.20V 280Ah 14.336kWh

Version: V1.1



The W15 - 5A 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.

Dongguan Lithium Valley Energy Co., Ltd.

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 20 units in parallel
- The parallel system's max capacity is 286kWh



Certification

- UN38.3, MSDS, CB, CEI 0-21

Dimensions



Product Name		W15-5A
Electrical Characteristics		
Nominal Voltage	51.2V	
Nominal Capacity	280Ah	
Energy	14,336Wh	
Battery Chemistry	Lithium Iron Phosphate (LFP)	
Cycle Life	8,000 cycles @ 77°F (25°C), 0.5C/0.5C	
Operating Voltage	44.8-57.6V	
Communication Interfaces	CAN/RS485/RS232	
Scalable	Up to 20units	
Expansion Function	Single-pack level heat aerosol fire extinguishing device / Heating function / Bluetooth / Wheels (optional)	
Charge & Discharge		
Suggested Charging/Discharging Current	140A	
Standard Charging/Discharging Current	200A	
Instantaneous Discharging Current	250A 10S	
Conversion Efficiency	99% , 25°C/0.5C	
Environmental		
Environment	Indoors/under the outdoor eaves	
Charging Temperature	With heating function: -20-55°C ; Without heating function: 0-55°C	
Discharging Temperature	-20 to 60 °C	
Storage Temperature	Between 20°C and 45°C within three months; 25 ± 3°C for more than three months	
Storage Humidity	65+20%RH	
Altitude	≤3,000 m	
Cooling Method	Natural Convection	
IP Rating	IP65	
Mechanical		
Dimension(L*W*D)	800*500*227mm(excluding wheels)	
Weight	133.58kg(excluding wheels)	
Installation	Wall mount or floor	
Certification		
UN38.3, MSDS, CB, CEI 0-21		

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.
**The specifications are subject to change without prior notice.