

LITHIUMVALLEY



## Residential LFP Battery Series

**W15-5A**

51.20V 280Ah 14.336kWh

Version: V1.2



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 updateservice via built-in BLE
- Check battery operation status and configure BMS via BLE



#### Flexible and Expandable

- Up to20unitsinparallel
- The parallel system's max capacityis 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-packlevelheataerosol fireextinguishingdevice/Heating function / Bluetooth / Wheels (optional) |        |
| Charge & Discharge                    |                                                                                                      |        |
| SuggestedCharging/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               |                                                                                                      |        |
| Storage Temperature                   | -20 to 60 °C                                                                                         |        |
| Storage Humidity                      | Between 20°C and 45°C within three months;<br>25 ± 3°C for more than three months                    |        |
| Altitude                              |                                                                                                      |        |
| Cooling Method                        | 65+20%RH                                                                                             |        |
| IP Rating                             | ≤3,000 m                                                                                             |        |
|                                       | Natural Convection                                                                                   |        |
|                                       | 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.