



GLOBAL POWER



# Home Energy Storage Battery Series

W16

51.2V 314Ah 16.076kWh

Version: V1.0



The W16 is a comprehensive home wall-mounted solar lithium battery. It features built-in high-quality, high-capacity LiFePO4 batteries, ensuring a long system lifespan for the battery. The independently designed Battery Management System (BMS) has been verified to be compatible with inverters from different brands, supporting hybrid grid-tied and off-grid operation modes.

## FEATURES



### Multi-Scenario

Full-Scenario Coverage, Empowering Household Energy Freedom

- PV Consumption + Peak-Valley Arbitrage Enhances solar efficiency, generates electricity price gap earnings.
- Emergency Backup + Grid Interaction Seamless power backup, supports Bluetooth APP control.
- Space Optimization + Eco Carbon Reduction Compact design for small homes, visual carbon emission tracking.



### Longer Life and Safer

Core Defense Line: A Decade of Worry-Free Home Protection

- Cell-Level Safety Fortress: Safe LFP material system with high thermal stability, eliminating thermal runaway risks.
- The BMS Smart Protection Network features triple safeguards: millisecond-level cutoff for overcharge, over-discharge, and short circuit; automatic shutdown at abnormal temperatures (>60°C); and wide-temperature operation that maintains 70% discharge efficiency in environments from -20°C to 60°C.
- Ultra-Long Lifespan Economic Model.



### Efficient Maintenance

Smart, Predictive Maintenance: Cuts Costs by 70%

- AI Lifespan Prediction: 6-month early warning for battery aging, 92% accuracy
- Remote Diagnostics: Real-time voltage, temperature, capacity fade tracking via app; fault codes pushed instantly for repair
- Self-Maintenance Strategy: Auto-sleep when idle long-term; monthly self-charge to 60%; damp-triggered anti-humidity mode extends circuit life



### Flexible and Expandable

Smart Scalability: Flexible Architecture, Adapts On-Demand

- Supports up to 16 units in parallel | 321.52 kWh max capacity.
- Energy Ecosystem Integration.

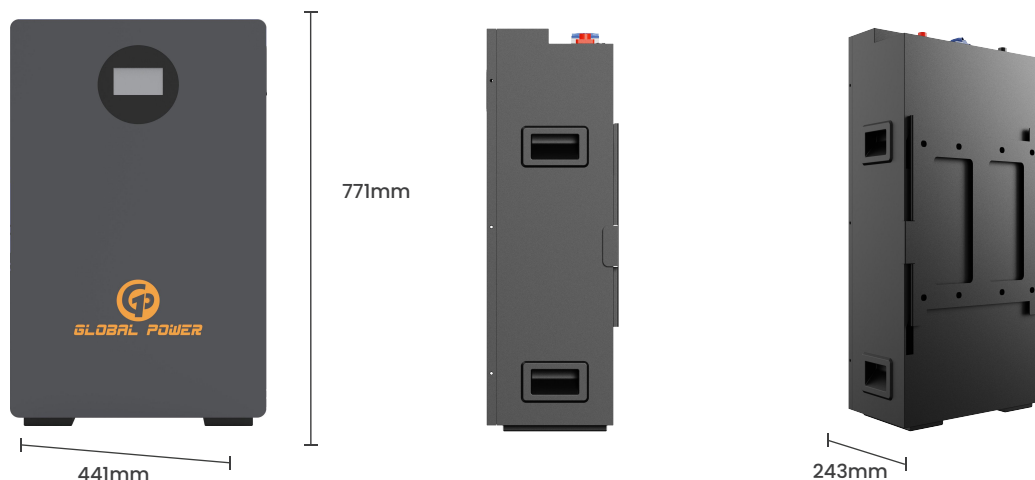


### Certification

Global Safety Passport, Authoritative Quality Endorsement

- UN38.3, MSDS, Marine Report

## Dimensions



### Product Name

W16

### Electrical Characteristics

|                          |   |
|--------------------------|---|
| Nominal Voltage          | 51.2V   |
| Rated Capacity           | 314Ah   |
| Energy                   | 16076.8Wh   |
| Cell Technology          | Lithium Iron Phosphate (LFP)                                  |
| Cycle Life               | 8,000 cycles @ 80%DOD, 25°C/0.5C                              |
| Operating Voltage        | 44.8~58.4V  |
| Communication Interfaces | RS232 / CAN / RS485   |
| Scalability              | Up to 16 units  |
| Expansion Function       | aerosol fire extinguishing device/Bluetooth/wheels (optional) |

### Charge & Discharge

|   |                 |
|---|-----------------|
| Standard Charging/Discharging Current   | 100A            |
| Max continuous charge/discharge current | 200A            |
| Conversion Efficiency                   | 99% , 25°C/0.5C |

### Environmental

|                         |   |
|-------------------------|---|
| Working Environment     | indoors/Under the outdoors eaves  |
| Charging Temperature    | 0~55°C (32° F~131° F)   |
| Discharging Temperature | -20~60°C (-4° F~140° F)   |
| Storage Temperature     | 20°C to 45°C (68° F to 113° F) with in three months; 25±3°C (77° F±5.4° F) for more than three months |
| Storage Humidity        | 65+20%RH  |
| Cooling                 | Natural Convection  |
| IP Rating               | IP20  |

### Mechanical

|                       |                               |
|-----------------------|-------------------------------|
| Dimension(L*W*H)      | 771*441*243mm                 |
| Weight(approximately) | 120.5kg                       |
| Installation          | Wall-mounted / Floor-standing |

### Certification

UN38.3, MSDS, Marine Report

\*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.



Address : 320 Industrial Blvd Jasper, TN 37347, USA

www.globalpower.net