



## LiFePO4 Residential Battery Energy Storage System 2560Wh 51.2V DC

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: XWELL
- Certification: UN38.3, MSDS, UL, CB, BIS, PSE, GB4943.1 safety standard, CE, FCC, ROHS, battery UN38.3, MSDS, UL, CB, BIS, PSE
- Model Number: XW-2560W
- Minimum Order Quantity: 1 pcs
- Packaging Details: Carton
- Delivery Time: 7-10 working days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 5000 pcs per month



### Product Specification

- Nominal Capacity: 2.56kwh
- Nominal Voltage: 51.2V
- Cell Type: LiFePO4
- Standard Charge Voltage: 58.4V
- Max Charge Current: 40A
- Discharge Cut-off Voltage: 40V
- Max Discharge Current: 50A
- Parallels Function: Support 8 Units In Parallels
- Communication Interface: RS485, RS232, CAN
- Cycle Life: >6000 Cycles(80%DOD)
- Highlight: **LiFePO4 Residential Battery Energy Storage System**  
**Residential Battery Energy Storage System**  
**2560Wh**  
**, 51.2V lifepo4 energy storage battery**



## Product Description

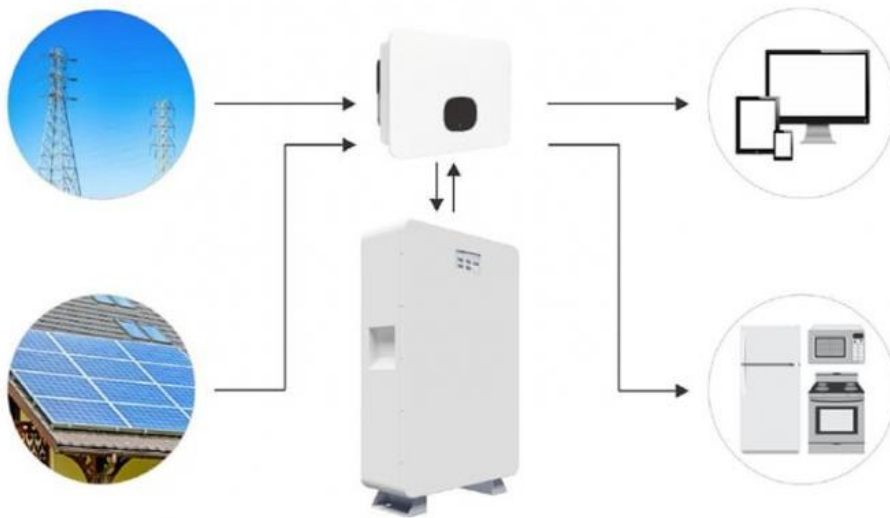
### 2560Wh 51.2V DC Home Energy Storage System Wall-Mounted And Floor-Standing LiFePO4 Battery

#### Home Energy Storage System Description

The Home Energy Storage System Series offers two installation options, wall-mounted and floor-standing, and battery capacities of 50Ah, 100Ah, and 200Ah to flexibly meet household energy needs. The series features A-grade lithium iron phosphate cells with a cycle life of over 3000 times, built-in BMS for safety protection, and supports RS485/RS232/CAN communication protocols. The system is compatible with various energy storage inverters on the market, catering to a diverse range of user needs.



## Connection diagram



### Home Energy Storage System Specification

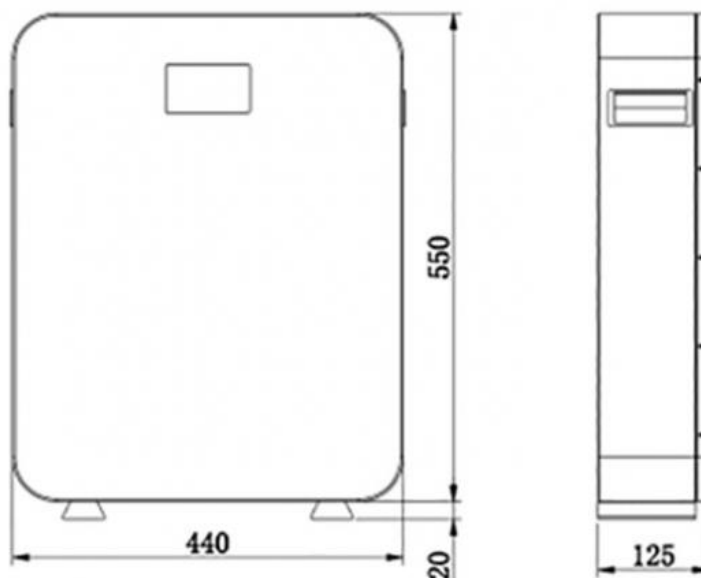
| No. | Item                        | General Parameter               | Remark                                                                                                                       |
|-----|-----------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1   | Material system             | Lithium iron phosphate          | /                                                                                                                            |
| 2   | Typical Capacity            | 50Ah                            | 0.5C Standard discharge                                                                                                      |
| 3   | Operating voltage range     | 2.5~3.65V                       | /                                                                                                                            |
| 4   | Nominal Voltage             | 3.2V                            | Mean Operation Voltage                                                                                                       |
| 5   | Standard Charge Voltage     | 3.6V                            | By standard charge method                                                                                                    |
| 6   | Internal Impedance          | $\leq 0.8\text{m}\Omega$        | 1kHz 2%SOC                                                                                                                   |
| 7   | Dimension                   | Thickness: $\leq 37.5\text{mm}$ | Initial Dimension                                                                                                            |
|     |                             | Width: $135\pm 1\text{mm}$      |                                                                                                                              |
|     |                             | Height: $192\pm 1\text{mm}$     |                                                                                                                              |
| 8   | Weight                      | $\leq 2.03\text{ Kg}$           |                                                                                                                              |
| 9   | Standard charge current     | 0.5C                            | 0.5C constant current, 3.65V constant voltage charge to 3.65V, continue charging till current decline to $\leq 0.05\text{C}$ |
| 10  | Maximum Charging Current    | 50 A                            | $25\pm 2$                                                                                                                    |
| 11  | Standard discharge Current  | 0.5C                            | $25\pm 2$                                                                                                                    |
| 12  | Maximum discharge current   | 50 A                            | $25\pm 2$                                                                                                                    |
| 13  | Maximum Discharging Current | 100A(2C)                        | 25 , 50%SOC, 30s                                                                                                             |

Home Energy Storage System  
Operation Pannel



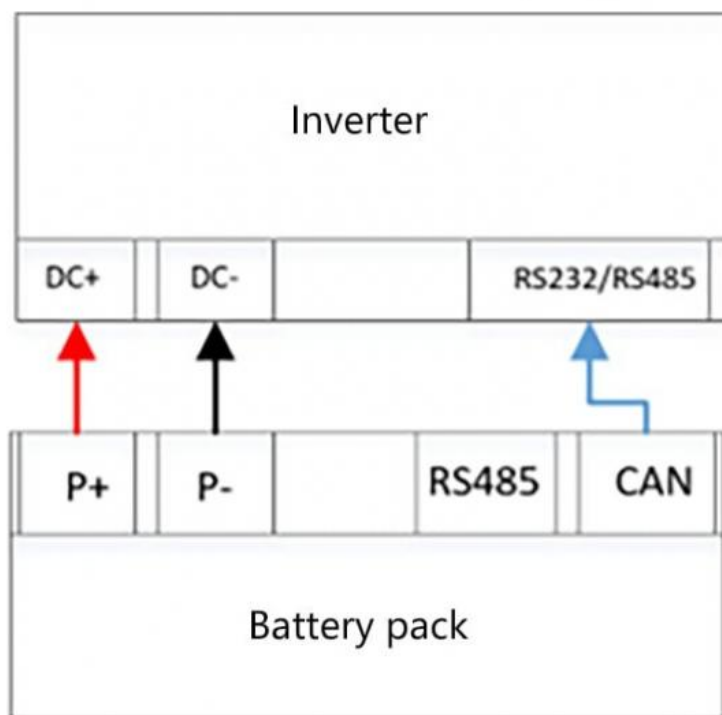
- ① — Output negative pole
- ② — Output positive pole
- ③ — RS232 communication port (software update)
- ④ — RS485/CAN communication port (communicate with inverter)
- ⑤ — Switchs for address

#### Home Energy Storage System Size



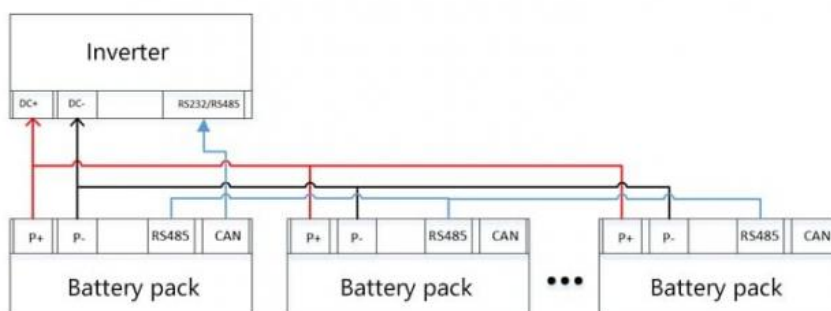
#### Home Energy Storage System Single Battery Pack Wiring Diagram

## Single battery pack wiring diagram



## Home Energy Storage System Parallels Connection Wiring Diagram

### Parallel connection wiring diagram of multiple battery packs



## FAQ

**Q: What is your MOQ?**

**A:** There is no MOQ and we also support a sample service.

**Q: How about the payment terms?**

A: T/T, Paypal, Wire Transfer and Online Transfer are all acceptable.

**Q: Is the battery kit equipped with BMS?**

A: Yes, our battery kit comes complete with the BMS and all the accessories needed to assemble the battery pack. Customers can assemble their own battery packs if they have enough batteries.

**Q: What options are available for the BMS that comes with the battery kit?**

A: 100A/150A/200A BMS are available for customers to choose.

**Q: What are the advantages of your battery kits?**

A: Our kits have the following advantages:

Stackable

External port can pass 250A current individually

The internal BMS is compatible with CAN and RS485 communication and can communicate with a wide range of inverters without complex commissioning

The PCB boards are soldered with the corresponding wires for the customer to assemble in order

The external LCD display shows the basic parameters

The side clamping plates apply pressure to the battery for better clamping

Equipped with a weak switch for greater safety

Complimentary 485 adapter cable for connection to the PC

**Q: What is the shipping time limit for battery kit?**

A: The transit time is approximately 35-38 business days.

**Q: What should I do when I receive the battery kits?**

A: First open the box when you sign for it to check that the contents have not been damaged in transit, and then double check that the battery kit is complete with all the accessories.

**Q: Why has my logistics information not been updated?**

A: The goods will be shipped by UPS or a local shipping company, but due to the tedious process of shipping across borders, the logistics information will not be updated for a while until the goods arrive in your country. It is only when the goods are picked up by the local carrier and ready for dispatch that the logistics status will be updated accordingly.

**Our services**

1. Your inquiry related to our products price will be replied in 24 hours.
2. Experienced staffs to answer all your enquiries in fluent English
3. We make the OEM and ODM service for more than 5 years
4. Protection of your sales area, ideas of design and all your private information.
5. No matter big order or small order, we will provide all the best quality, best service.
6. If our products have any problem that we caused, they will be sent free in the next order.

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