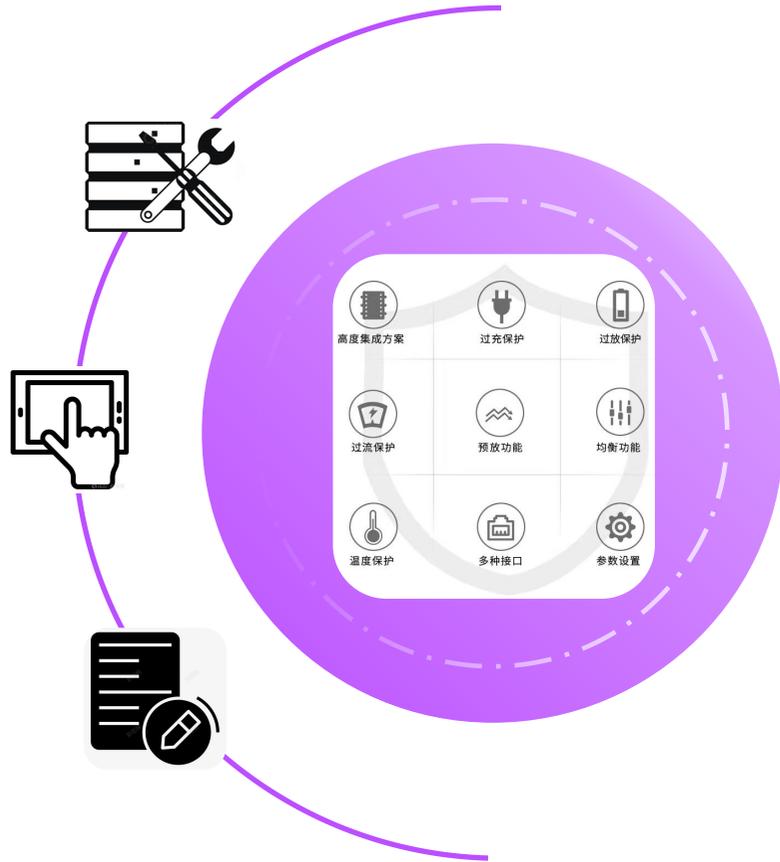


# Installation instructions for use



Do not know how to operate the battery pack during the installation process, do not understand the situation, please contact the manufacturer to guide the installation.



Please cannot use the battery pack correctly beyond the range of the battery pack parameters.

# catalogue

01

**Battery pack  
installation**

02

**wire joining**

03

**technical  
parameter**

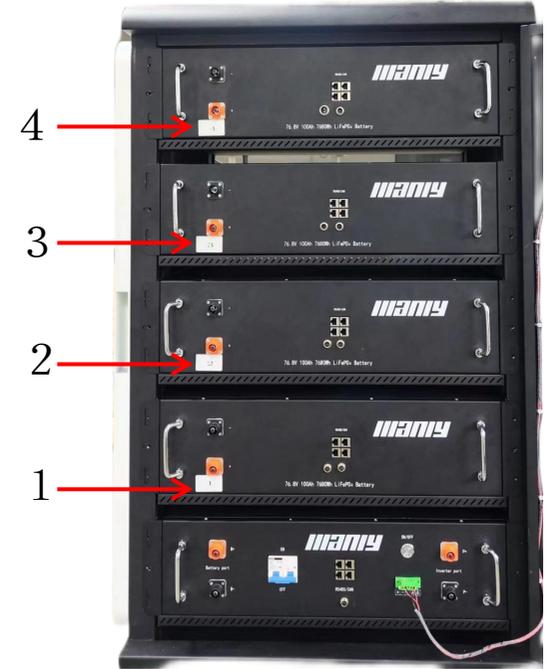
04

**matters need  
attention**





## ◆ Battery pack installed



1. Check whether the appearance and performance of the battery module are good and not defective; if abnormal, please contact the manufacturer.
2. Open the cover on the front of the cabinet, pull the spring bolt to remove the cover, and install the good battery pack into the cabinet in the order of main machine, 1, 2, 3 and 4 (as shown in the figure).
3. The installed battery pack should check whether it is installed and misplaced.

# Installation instructions for use

307.2V100Ah

## ◆ Battery pack string



This port is a 90 degree Angle connector.  
The others are right angles



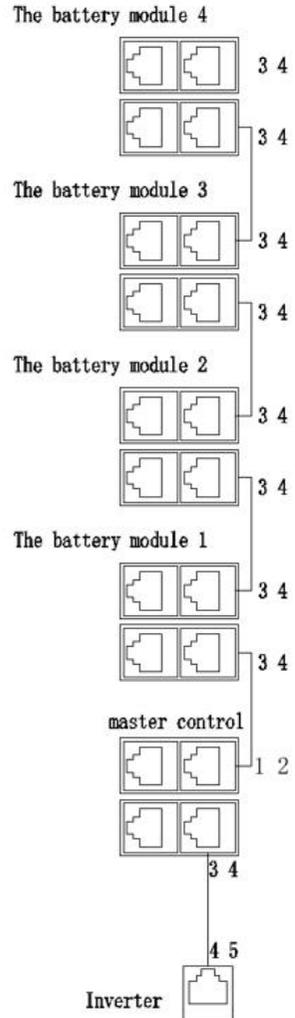
When removing this connector, you need to press this button to remove it.

1. First connect communication terminal lines; 1,2,3,4 communication terminal lines are 3 4-3 4; host and 1 communication terminal lines are 1 2-3 4 (host : 1 2; 1 : 3 4) host and inverter communication terminal lines are 3 4-4 5 (host : 3 4; inverter : 4 5) and then green terminal lines.
2. After connecting the communication terminal line, connect the DC terminal line and DC terminal line to into the hole, and insert the nut for fix.
3. The serial terminal line of the battery pack is connected to those without electricity and then with electricity. (black terminal line is B-; orange terminal line is B +; one black terminal and one orange terminal are serial terminal lines).
4. Check whether the wire is loose when the connection is completed.

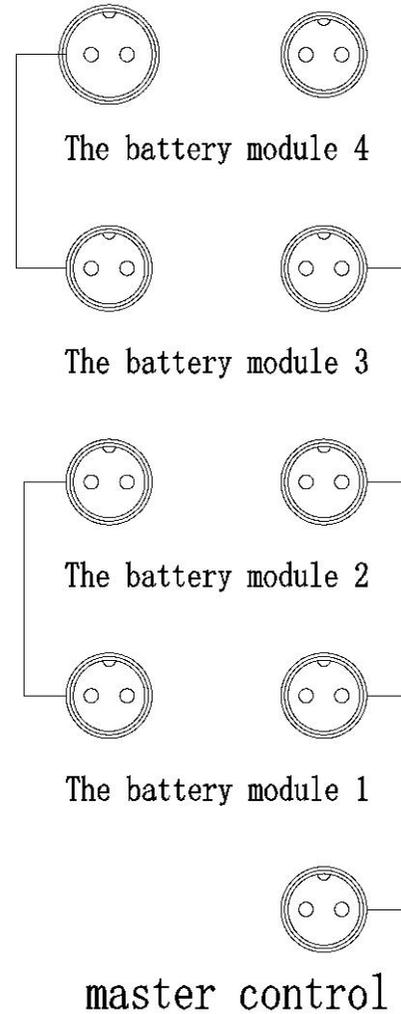


## ◆ Battery pack string

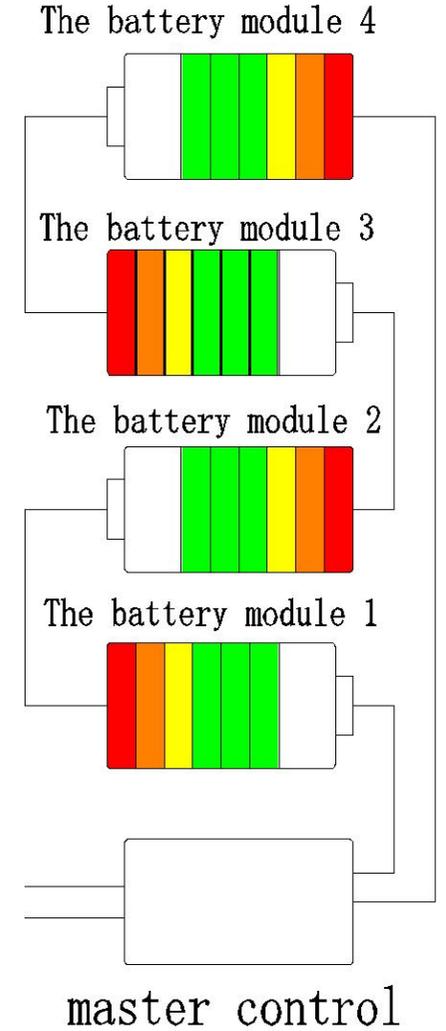
1.Communication connection reference diagram



2.DC connection reference diagram



3. Reference diagram of battery module connection

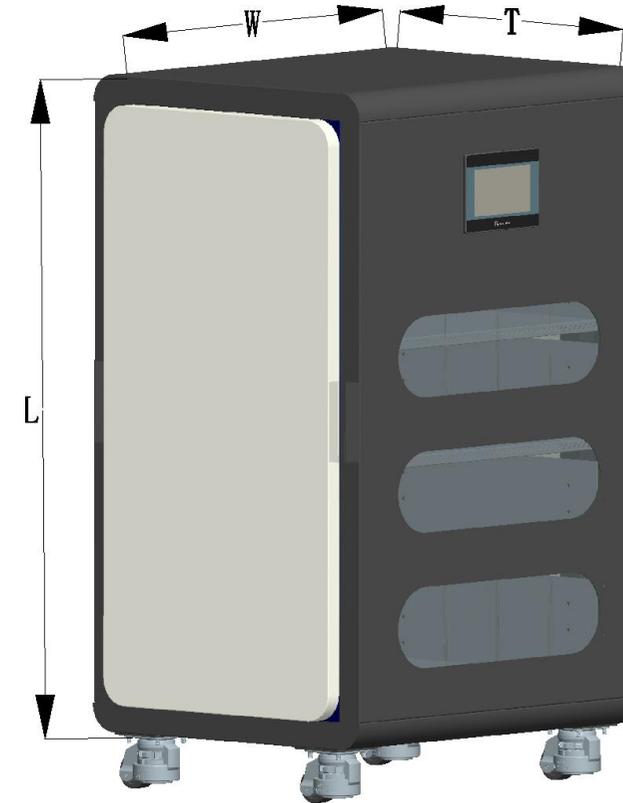


# Installation instructions for use



307.2V100Ah

| NO | Project                     | Specifications          | Remarks                                    |
|----|-----------------------------|-------------------------|--|
| 1  | Nominal voltage             | 307.2V                  |  |
| 2  | Typical capacity            | 100Ah                   | At the 0.2C charge and discharge condition |
| 3  | Energy                      | 30.720KWh               |  |
| 4  | Internal resistance of cell | ≤105mΩ                  | In the AC1KHz                              |
| 5  | Charging limit voltage      | 350.4V                  | Crest value                                |
| 6  | Operating voltage           | 240V/350.4V             |  |
| 7  | Standard charging current   | 20A                     |  |
| 8  | Maximum charging current    | 50A                     |  |
| 9  | Discharge cut-off voltage   | 240V                    |  |
| 10 | Standard discharge current  | 20A                     |  |
| 11 | Maximum discharge current   | 50A                     |  |
| 12 | Compound mode               | 96S1P                   |  |
| 13 | Cell model                  | LFP 3.2-100AH           |  |
| 14 | Case main material          | Cold-rolled plate       |  |
| 15 | Protection level            | IP51                    |  |
| 16 | Cooling-down method         | Natural cooling         |  |
| 17 | Outline dimension           | 1320*820*655±5mm        |  |
| 18 | Operating temperature range | Charge: 0°C~45°C        | At 10%-90%RH                               |
|    |                             | Discharge: -20°C~60°C   |  |
| 19 | Storage temperature range   | 15 °C to °C: 9 months   | At 50%-60% SOC                             |
|    |                             | 0 °C to 35 °C: 6 months |  |
|    |                             | -20°C~45°C: 1 month     |  |
| 20 | Storage humidity range      | 20%-80% RH              |  |



| NO. | Items                 | Unit of Units: mm |          |
|-----|-----------------------|-------------------|----------|
| 1   | Height / Length       | L                 | 1320±5mm |
| 2   | Width / Width         | W                 | 820±5mm  |
| 3   | Thickness / Thickness | T                 | 655±5mm  |

## ◆ Display screen



| M5  |         | M6  |         | M7  |         | M8  |         |
|-----|---------|-----|---------|-----|---------|-----|---------|
| B01 | 3333 mv | B01 | 3333 mv | B01 | 3333 mv | B01 | 3331 mv |
| B02 | 3334 mv | B02 | 3334 mv | B02 | 3336 mv | B02 | 3334 mv |
| B03 | 3336 mv | B03 | 3336 mv | B03 | 3336 mv | B03 | 3334 mv |
| B04 | 3336 mv | B04 | 3334 mv | B04 | 3336 mv | B04 | 3334 mv |
| B05 | 3336 mv |
| B06 | 3336 mv | B06 | 3334 mv | B06 | 3336 mv | B06 | 3336 mv |
| B07 | 3336 mv | B07 | 3334 mv | B07 | 3337 mv | B07 | 3336 mv |
| B08 | 3336 mv | B08 | 3334 mv | B08 | 3337 mv | B08 | 3336 mv |
| B09 | 3336 mv | B09 | 3334 mv | B09 | 3337 mv | B09 | 3334 mv |
| B10 | 3336 mv | B10 | 3336 mv | B10 | 3337 mv | B10 | 3334 mv |
| B11 | 3336 mv | B11 | 3336 mv | B11 | 3336 mv | B11 | 3334 mv |
| B12 | 3333 mv | B12 | 3333 mv | B12 | 3334 mv | B12 | 3334 mv |
| T1  | 29 °C   |
| T2  | 29 °C   | T2  | 29 °C   | T2  | 29 °C   | T2  | 28 °C   |

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1. The display screen is a high-precision capacitive screen and can be directly touched.
2. The home page displays the battery pack constant data; for example: voltage, power 100%, current, temperature control, cell high and low voltage, etc.
3. Battery information can view the serial voltage phenomenon of the battery pack module; the history record will save the abnormal record of the battery pack; the fault information can view the alarm information and fault information during the battery pack use.



## ◆ matters need attention

1. Never make short circuit cell. It generates very high current which causes heating of the cells and may cause electrolyte leakage, gassing or explosion that are very dangerous.

The LiFePO<sub>4</sub> tabs may be easily short-circuited by putting them on conductive surface.

Such outer short circuit may lead to heat generation and damage of the cell.

An appropriate circuitry with PCM shall be employed to protect accidental short circuit of the battery pack.

## 2. Prohibition of dis assembly

1) Never disassemble the cells The disassembling may generate internal short circuit in the cell, which may cause gassing, firing, explosion, or other problems.

2) Electrolyte is harmful battery should not have liquid from electrolyte flowing, but in case the electrolyte come into contact with the skin, or eyes, physicians shall flush the electrolyte immediately with fresh water and medical advice is to be sought

3) The cells shall never be soaked with liquids such as water, seawater, drinks such as soft drinks, juices, coffee or others.



## ◆ matters need attention

3. The cells might be damaged during shipping by shock. If any abnormal features of the cells are found such as damages in a plastic envelop of the cell, deformation of the cell package, smelling of an electrolyte, an electrolyte leakage and others, the cells shall never be used any more.

The Cells with a smell of the electrolyte or a leakage shall be placed away from fire to avoid firing or explosion.

4. Before use, please read carefully the product manual and follow the instructions in the manual. Incorrect use may cause battery heating, cracking, fire, damage or capacity decline, and even cause personal and property injury.

5. If the customer needs to use the battery for applications beyond the document or use the battery under the use conditions specified in the document, he should contact us in advance, because specific experimental tests are required to verify the performance and safety of the battery under the use conditions.

6. We shall not be responsible for any loss or accidents caused by the use of batteries under conditions other than those specified in the document.