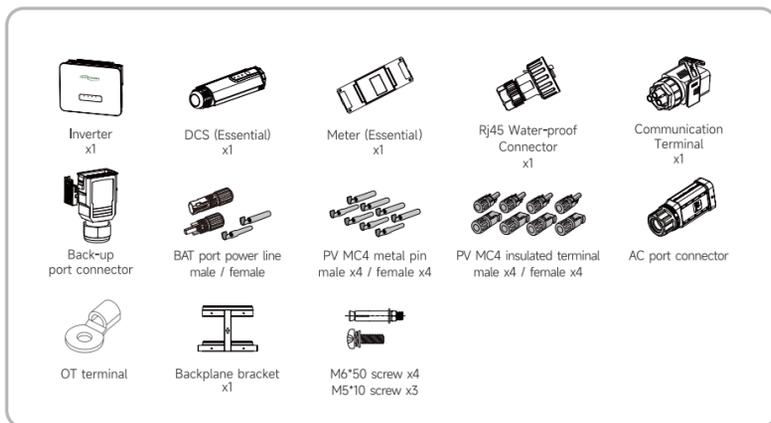


HYBRID INVERTER

HYX-H15K-HT / HYX-H20K-HT /
HYX-H25K-HT

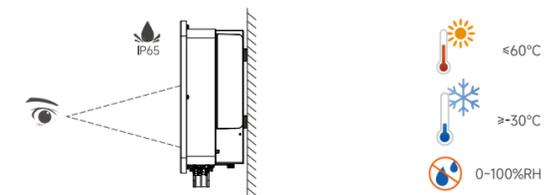


1 Packing list

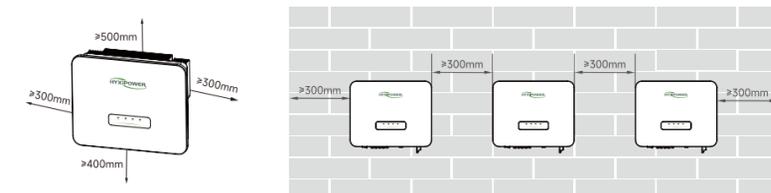


2 Installation Preparation

2.1 Installation Environment Requirements

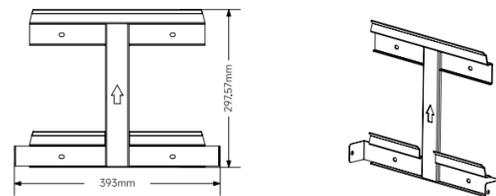


2.2 Installation Space Requirements



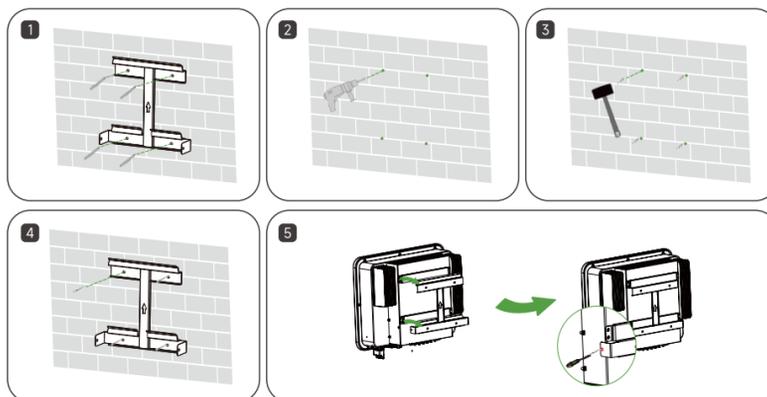
3 Installing the Inverter

3.1 Hanging Plate Size



3.2 Installation Steps

- Step 1: Place the wall plate horizontally on the wall, recommend to select the hole position shown in the picture and mark the drilling position.
- Step 2: Drill a hole at the location shown, the depth of the hole is about 70mm.
- Step 3: Place the expansion tube and install the wall plate using the expansion bolt assembly.
- Step 4: Secure the mounting plate with M6 screws.
- Step 5: Hang the mounting lugs onto the peg plate and tighten them with M5 screws and finally lock them.



4 Electrical Connection

Grid Cable and Micro-breaker Recommended

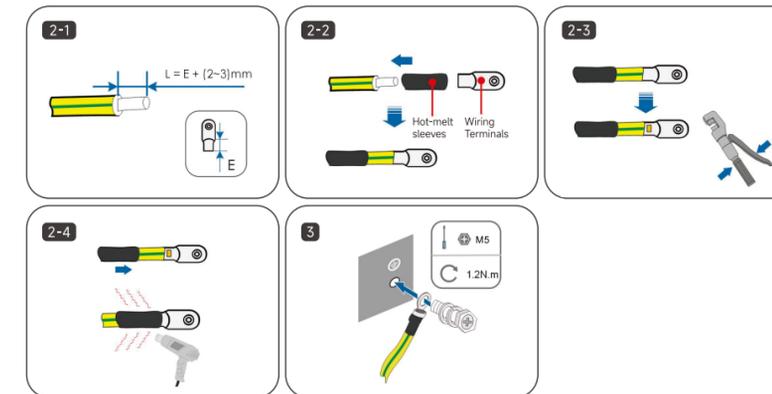
| Model | HYX-H15K-HT | HYX-H20K-HT | HYX-H25K-HT |
|-----------------------|----------------------|----------------------|----------------------|
| PV cable (copper) | 4-6mm ² | 4-6mm ² | 4-6mm ² |
| AC cable (copper) | 16-25mm ² | 16-25mm ² | 16-25mm ² |
| Backup cable (copper) | 6-8mm ² | 6-8mm ² | 6-8mm ² |
| BAT cable (copper) | 10mm ² | 10mm ² | 10mm ² |
| Micro-Breaker | 70A | 90A | 110A |

4.1 Grounding Procedure

The cross-sectional area of the secondary grounding cable must be the same as the cross-sectional area of the PE core in the AC cable.

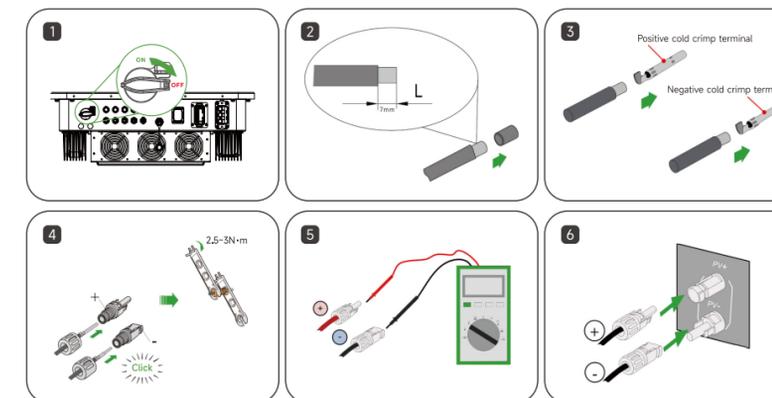
The secondary grounding cable and terminal block are to be prepared by the customer.

- Step 1: Make the cable and crimp the terminal block.
- Step 2: Remove the screws from the grounding terminal and use a screwdriver to secure the cable.
- Step 3: Apply silicone or paint to the grounding terminal to improve its corrosion resistance.



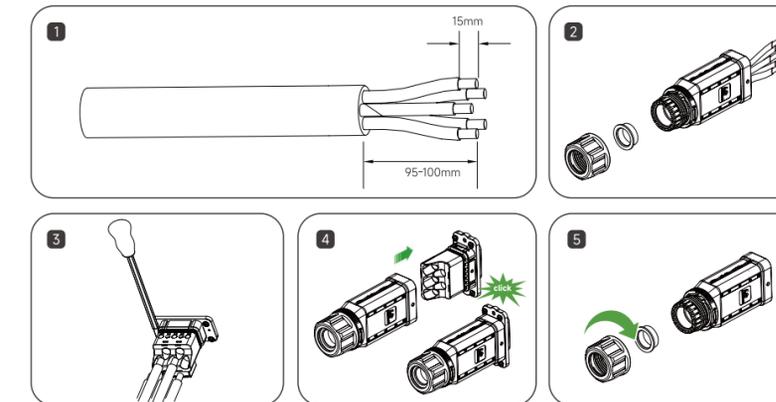
4.2 PV Side Connection

- Step 1: Turn the DC switch to "OFF" manually.
- Step 2: Strip off the insulation layer of all DC cables by about 7mm.
- Step 3: Use crimping pliers to bundle the cable ends at the wiring terminals.
- Step 4: Pass the cable through the cable gland, insert the insulating sleeve and fasten it. Use a force of 2.5-3N·m to tighten the gland and insulating sleeve.
- Step 5: Use a multimeter to check that the polarity of the PV string connecting cable is correct.
- Step 6: Connect the PV connectors to the corresponding terminals until a click is heard and seal the vacant DC terminals with MC4 waterproof plugs.



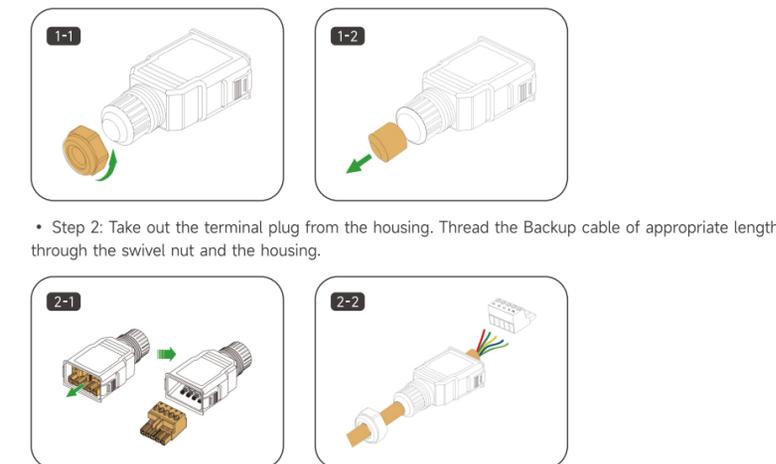
4.3 AC Side Connection

- Step 1: Wire insulation stripped 95-100mm, L1 \ L2 \ L3 \ N \ PE five wire stripping length of 15mm.
- Step 2: Thread the stripped wire into the locking nut, sealing ring and main body in order.
- Step 3: Cable inserted into the rubber core according to the line sequence, observe the perspective hole cable in place, crimp screw torque 4 ± 0.1N·m.
- Step 4: Insert the body into the terminal and a clicking sound is heard.
- Step 5: Tighten the nut, accompanied by a "click, click" sound means installation complete.

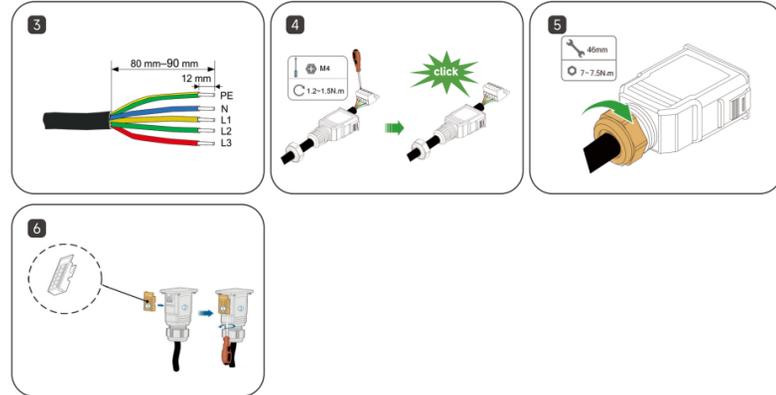


4.4 Backup Side Connection

- Step 1: Unscrew the swivel nut of the Backup connector. (Optional) Remove the inner sealing ring if the cable diameter is between 19mm - 25mm. Otherwise skip this step.



- Step 3: Strip 80mm-90mm of the cable jacket and 12mm of the wire insulation.
- Step 4: Fix all the wires to the terminal plug according to the assignment and tighten to a torque of 1.2N·m-1.5N·m with a screwdriver, then push the terminal plug into the housing until there is an audible click.
- Step 5: Ensure that the wires are securely in place by slightly pulling them. Tighten the swivel nut to the housing.
- Step 6: Plug the Backup terminal into the inverter Backup port and hear the "click" sound. Insert the block into Backup connector, as shown in the figure below.



4.5 BAT Power Cable Connection

Two 3m BAT power cable will be included in BDU package as standard. These two power cable already been made in BAT side. INV side not been made in order to facilitate casing. Please refer to the PV connector to make the battery connector ready & connect it to inverter BAT port. Communication cable please connect to BAT CAN port.

NOTES

The battery base (in BDU package) must be installed, otherwise the battery cannot form a circuit.

5 Communication Connection

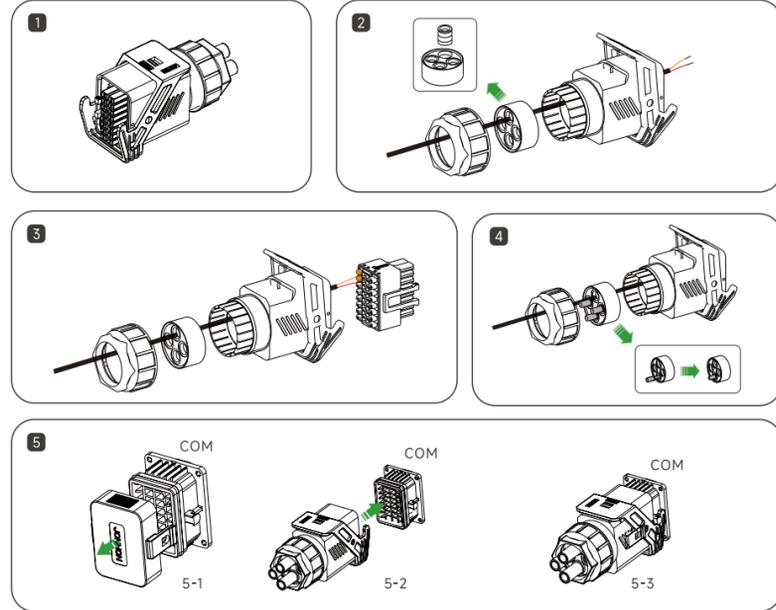
5.1 Inverter & BDU Communication Connection Steps

One 3m BAT communication cable will be included in BDU package as standard. Please connect this 3m communication cable to Inverter BMS port and BDU .

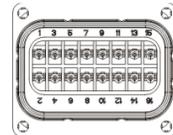
5.2 Meter Communication Connection

INV-meter connection INV side, INV and meter connected by RS485 2pin cable.

- Step 1: Pull crimping components out of communication terminal.
- Step 2: Insert meter RS485 2pin cable into communication terminal as follows. Then stripping the wire.
- Step 3: Clip the stripped meter RS485 2pin wire to crimping components (press the yellow button).
- Step 4: Plug waterproof rubber plugs into unused holes.
- Step 5: Remove the cover of inverter COM port. Insert communication terminal and tighten knob.



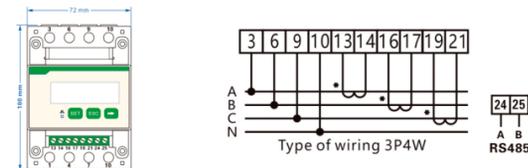
PIN Definition



| PIN | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 |
|------------|--------------|--------------|--------------|--------------|-------------|-----------|---------|-----|
| Definition | DRM1/5 | DRM2/6 | DRM3/7 | DRM4/8 | COM LOAD/J0 | REF/GE0 | GND_COM | NO1 |
| PIN | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| Definition | RS485A_METER | RS485B_METER | RS485_Grid_A | RS485_Grid_B | DSP_CAN_H | DSP_CAN_L | +8V_COM | NO2 |

INV-meter connection meter side, INV and meter connected by RS485 2pin cable.

Please refer to the following for more details please refer to the manual in the meter package.

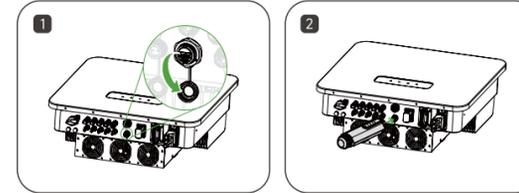


Please note: CT direction pointing to GRID.

Please note: Meter 485A/485B must be connected to the correct pin port of inverter side.

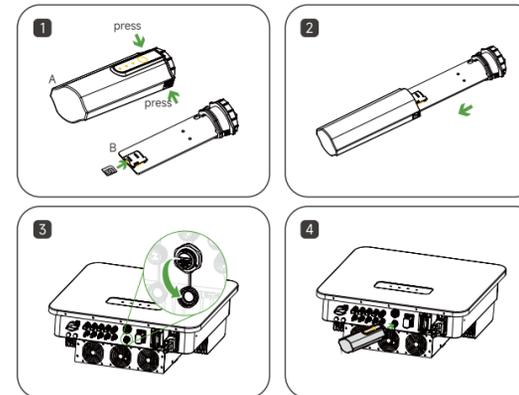
5.2 DCS Installation (WIFI module)

- Step 1: Remove the waterproof cover at the communication interface of the inverter.
- Step 2: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



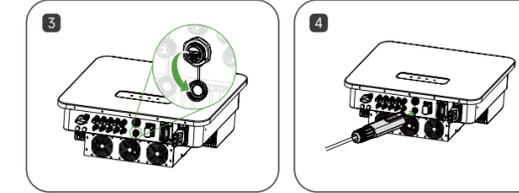
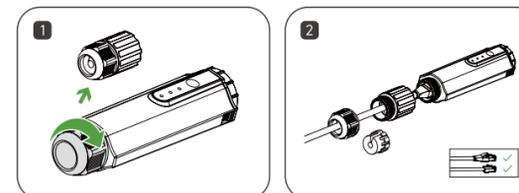
5.3 DCS Installation (4G module)

- Step 1: Remove the protective cover of DCS and insert the SIM card.
- Step 2: Install the waterproof cover of DCS.
- Step 3: Remove the waterproof cover at the communication interface of the inverter.
- Step 4: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



5.4 DCS Installation (WLAN module)

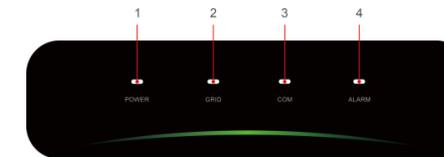
- Step 1: Replace the bottom plug of DCS with the WLAN plug.
- Step 2: Insert the network cable connector into the network junction.
- Step 3: Remove the waterproof cover at the communication interface of the inverter.
- Step 4: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



6 LED Indicator

6.1 LED Indicator Status Description

One 3m BAT communication cable will be included in BDU package as standard. Please connect this 3m communication cable to Inverter BMS port and BDU .



| No. | Indicator | Status | Description |
|-----|-----------|---------|----------------------|
| 1 | POWER | ON | Inverter Powered ON |
| | | OFF | Inverter Powered OFF |
| 2 | GRID | ON | Grid Normal |
| | | Blink 1 | Grid Abnormal |
| | | Blink 2 | Grid Disconnected |

* 1 time flashing, interval 1.5 seconds; 2 times flashing, interval 0.2 seconds.

| No. | Indicator | Status | Description |
|-----|-----------|---------|-------------------------|
| 3 | COM. | ON | COM. Normal |
| | | Blink 1 | Meter COM. Fault |
| | | Blink 2 | COM. Fault With BMS |
| 4 | ALARM | OFF | Normal |
| | | Blink 1 | Inverter Internal Alarm |
| | | Blink 2 | Other Alarm |

7 System Commissioning

7.1 Installing the App

Method 1
Download the "HYXIPOWER APP" from the app store:

- App Store (IOS)
- Google Play

Method 2
Scan the QR code and download the APP :



App Download

7.2 App Quick Guide

For more information on using the HYXIPOWER APP, please scan the QR code.



App Quick Guide



www.hyxi-power.com