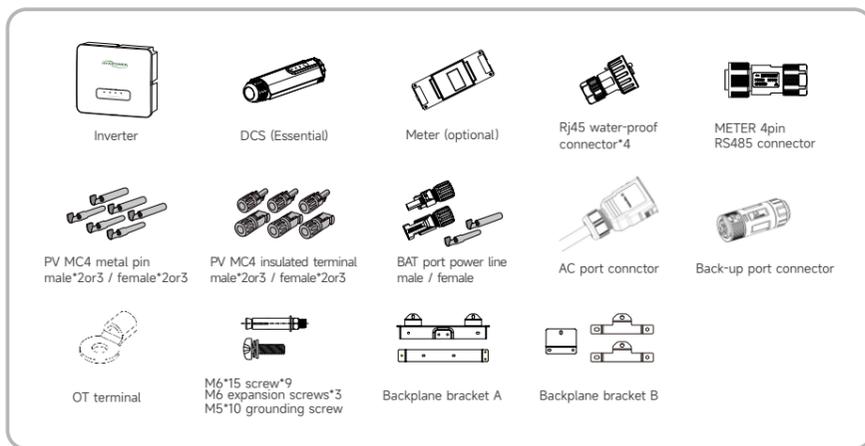


HYBRID INVERTER

HYX-H5K-HT / HYX-H6K-HT / HYX-H8K-HT /
HYX-H10K-HT / HYX-H12K-HT



1 Packing list

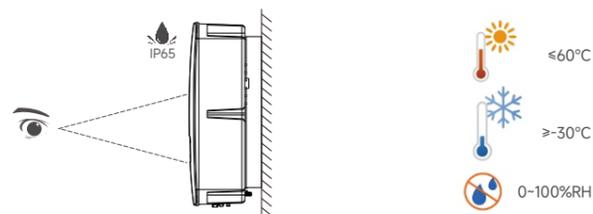


NOTES

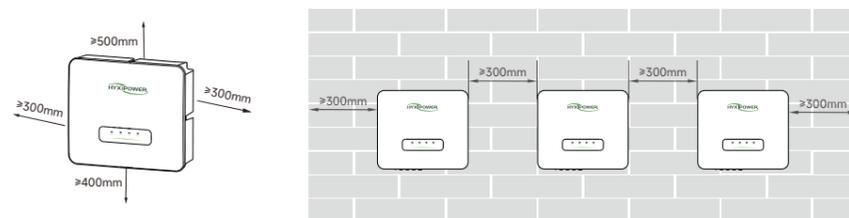
DCS need to order separately;
RJ45 water-proof connector*4: 2 for BDU-INV, 1 for DRM, 1 for COM.2;
PV MC4 metal pin male*2 and female*2 for 5/6/8kW hybrid inverter;
PV MC4 metal pin male*3 and female*3 for 10/12kW hybrid inverter.

2 Installation Preparation

2.1 Installation Environment Requirements

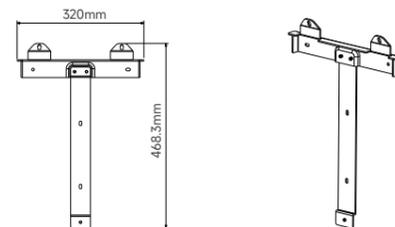


2.2 Installation Space Requirements



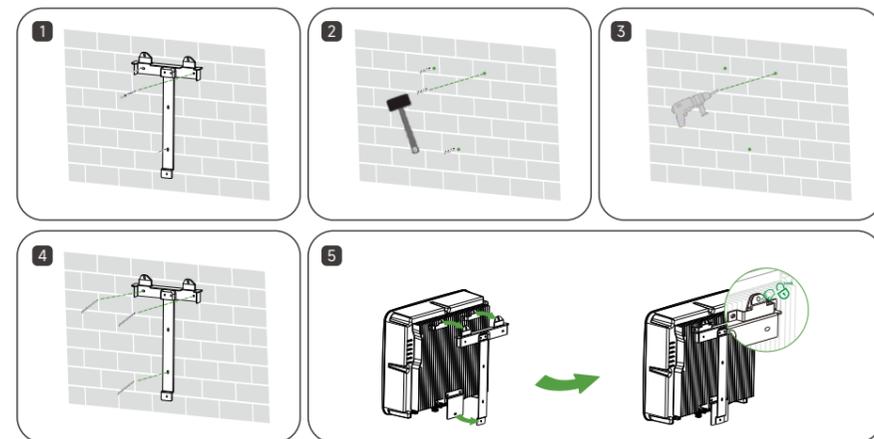
3 Installing the Inverter

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 M6 screws and finally lock them.



4 Electrical Connection

Grid Cable and Micro-breaker Recommended

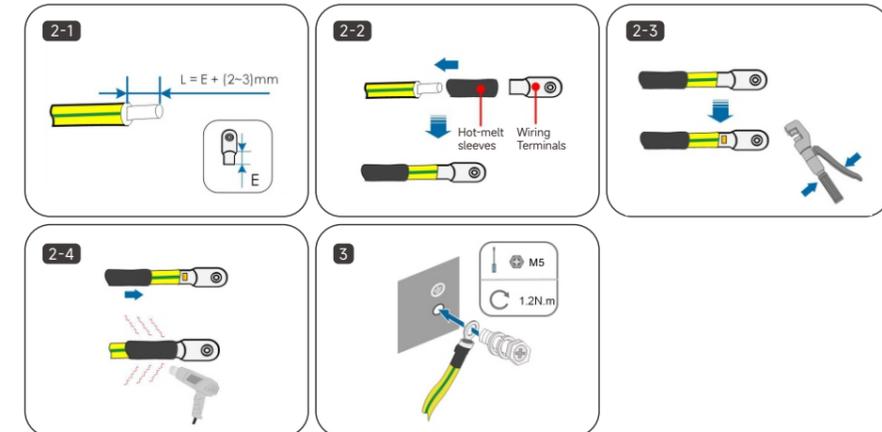
Model	HYX-H5K-HT	HYX-H6K-HT	HYX-H8K-HT	HYX-H10K-HT	HYX-H12K-HT
PV cable	4-6mm ²				
AC cable	4-6mm ²	4-6mm ²	4-6mm ²	4-6mm ²	6mm ²
Backup cable	4-6mm ²				
BAT cable	4-6mm ²				
Micro-Breaker	30A	30A	40A	50A	50A

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.

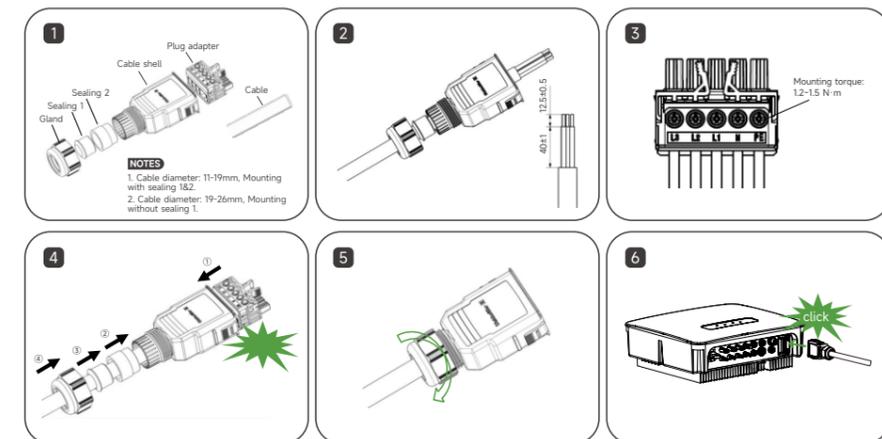
The secondary grounding cable and terminal block are to be prepared by the customer.

- 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.



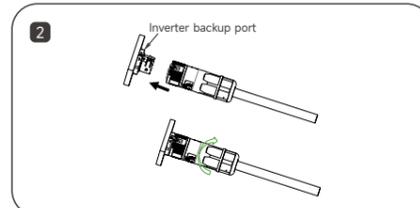
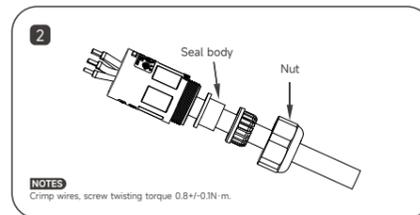
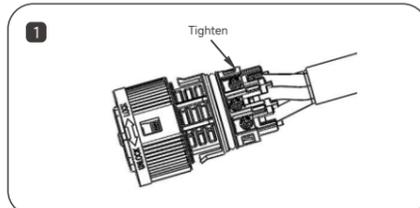
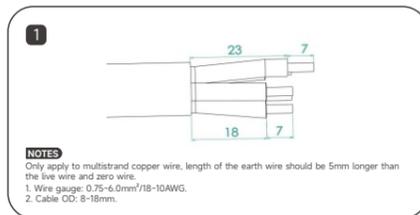
4.2 AC Side Connection

- Step 1: Prepare all parts for terminals.
- Step 2: Pass cable through gland, sealing and cable stripping.
- Step 3: Insert the stripped wire into the corresponding pole. Tighten the screws when the wires are in place.
- Step 4: Install plug adapter, sealing parts, gland on cable shell.
- Step 5: Tighten the sealing knob.
- Step 6: Plug the AC terminal into the inverter AC port and hear the "click" sound.



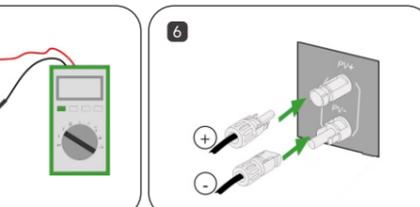
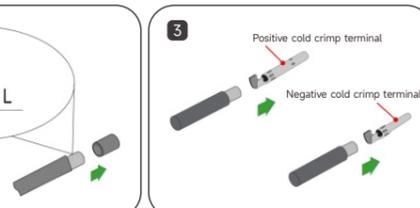
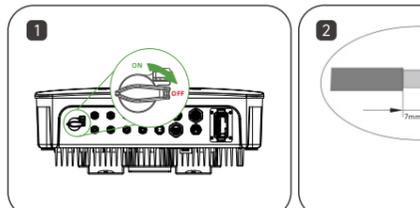
4.3 BACK-UP Side Connection

- Step 1: Wire Stripping.
- Step 2: Set the parts on the cable and crimp wires.
- Step 3: Tighten the sealing knob.
- Step 4: Mating plug and socket: Push the locker onto the socket housing completely, then rotate the locker according to the direction instructed by the marks on the locker.



4.4 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.



4.5 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.

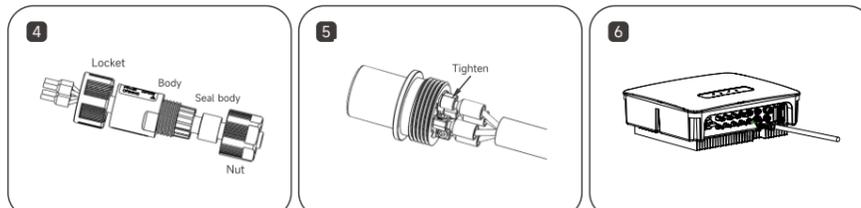
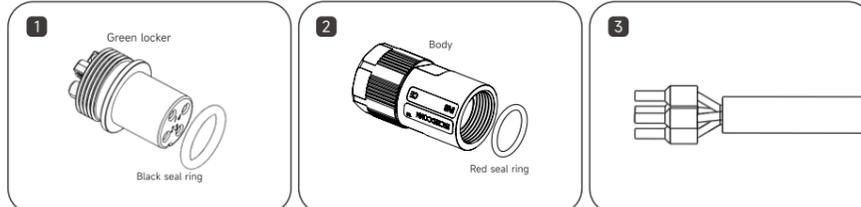
5 Communication Connection

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 .

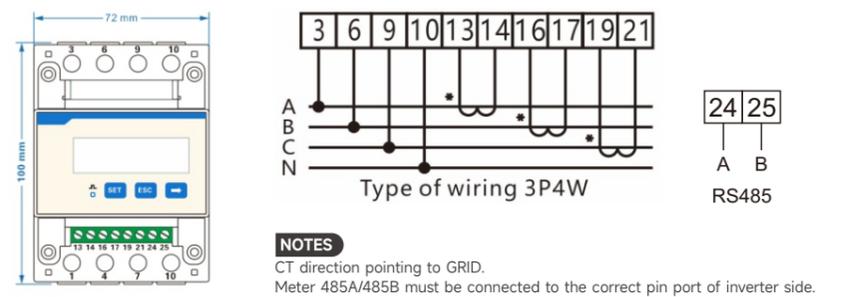
5.2 Meter Communication Connection

- Step 1: Place black seal ring on the green Locker.
- Step 2: Put red seal ring into the bottle of body inside.
- Step 3: Wire stripping.
- Step 4: Pass all parts through the wire in the following order.
- Step 5: Crimp the 2pin copper core on the green locker and tighten it.
- Step 6: Screw all parts together and connect the water-proof 2pin connector to inverter meter port.



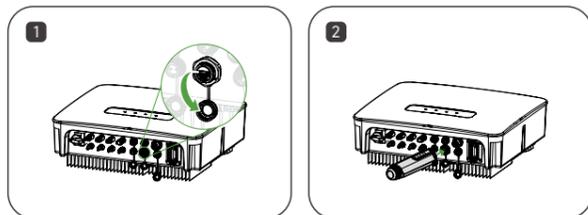
Inverter METER port	1	2	3	4
Smart Meter Side	485A	485B	(Reserved dry contact)	(Reserved dry contact)

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.



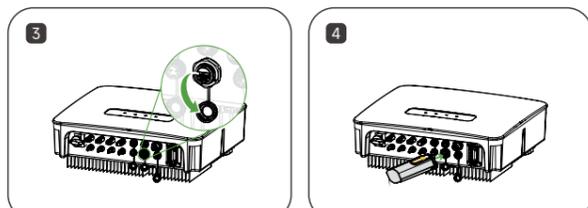
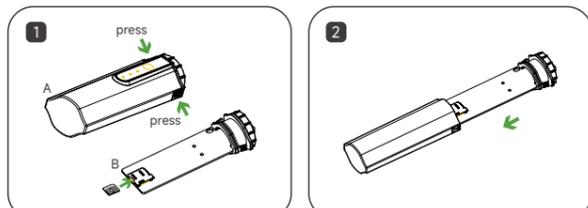
5.3 DCS Installation (WIFI module)

- 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.



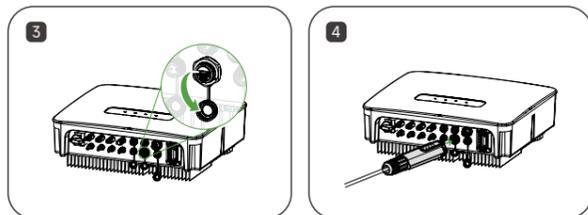
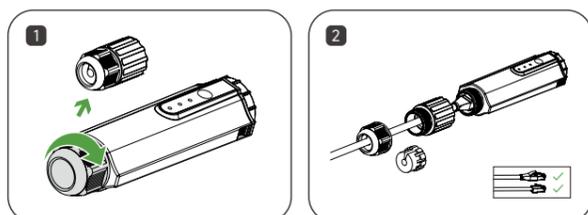
5.4 DCS Installation (4G module)

- 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.



5.5 DCS Installation (WLAN module)

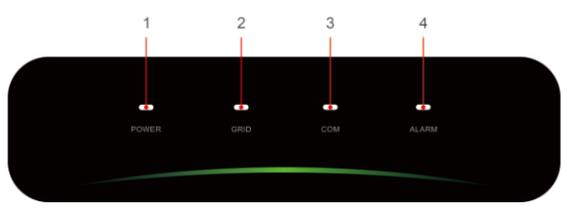
- Step 1: Replace the bottom plug of DCS with the WLAN plug.
- Step 2: Insert the network cable connector into the network junction.
- Step 3: Remove the waterproof cover at the communication interface of the inverter.
- Step 4: Insert DCS into the corresponding communication terminal at the bottom of 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
		OFF	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
		OFF	Fault Both Meter & 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:



7.2 App Quick Guide

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

