

H3 Pro Quick Installation Guide

Models:
H3-Pro-15.0
H3-Pro-20.0
H3-Pro-25.0
H3-Pro-29.9
H3-Pro-30.0

15-30kW Storage Inverter

1. Packing List



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A. EPS Connection

Disassemble the connector

Use a screwdriver to align the unlock position and press and Hold the thread and pull it back to complete the separation of the male and female.

Hold the unlocking buckle with one hand and rotate it in the direction indicated by the arrow, while using the other hand to rotate the nut in the opposite direction.

Remove the locking wire nut.

Insert the unlocking tool into the port of the rubber core until a "click" sound is heard.

Hold the main body with one hand and either pull the rubber core unlocking tool backward or push the wire forward.

Tighten the wire with a screwdriver. The torque of the crimp screw is 2.0±0.1N·m. Be sure to disconnect all power supplies before removing the protective end caps and wait 10 minutes before performing maintenance work.

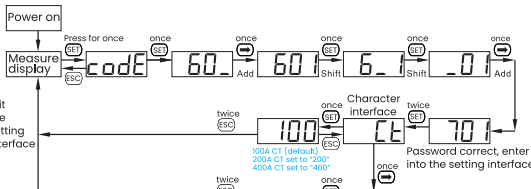
Put the sealing body and yarn trapper into the main body, screw the lock nut into the main body, and the torque is (2.5 ± / - 0.5N·m).

The female end of the wire is inserted into the male end of the line and accompanied by a click sound, and the installation is complete.

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Parameter setup

Button description: "SET" represents "confirm" or "cursor shift" (when entering digits), "ESC" represents "exit", "-" represents "reduce", and "+" represents "add". The password is 701 by default.



When modify digits, "SET" can be used as cursor shift button: "-" is "add" button; "ESC" represents exiting the setting interface or switch to the character interface from digit modification interface, restarting adding from zero after setting the digits to be the maximum value.

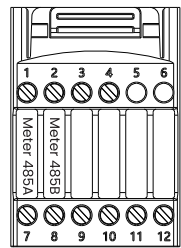
Warning

For the large current CTs (200A /400A and above), please choose the specified model from Fox ESS or designated distributors, and it is prohibited to use CTs from other manufacturers or those with mismatched specifications.

NOTE

If the communication is abnormal, check and set parameters.

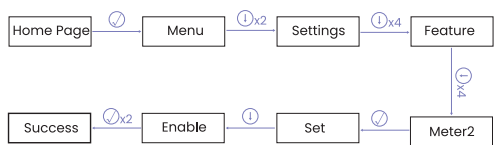
Comm port definition for H3-Pro series



Enable meter2 from display



7: Meter 485A 8: Meter 485B



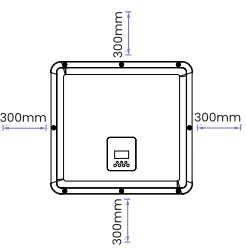
- CT wiring to each phase: L1-Yellow, L2-Green, L3-Red
- CT points to inverter

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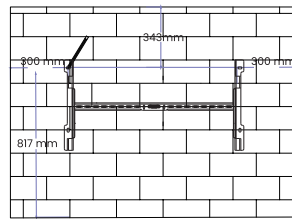
2. Installation Steps

Please make sure the inverter will be installed with a proper distance as shown below.

Step1: Choose the right location



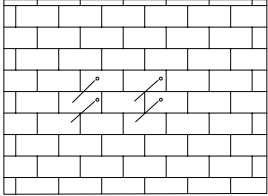
Step2: Mark the position
Installation position recommendation.
Use a spirit level to adjust the installation position.



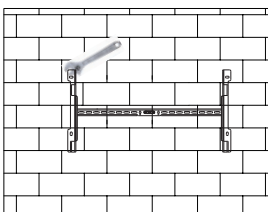
Arrow pointing up.



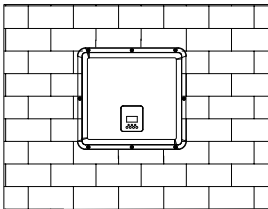
Step3: Drill the 4 holes with a ø 8 drill bit.
Depth: at least 50mm Hammer the expansion tubes.



Installing the Bracket Screw the expansion bolts.

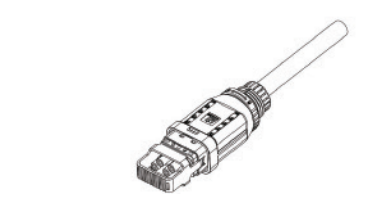


Step4: Match the inverter with bracket
Lock the screws on the side Make sure the inverter is firmly attached.



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Disassembly complete.



B. GRID Wiring

Strip the wires.

Thread the wires through the sleeve.

Install the copper wires into the plug terminals and tighten the screws.

Tighten the screws (torque: 3-3.5 N·m) using a 4.0 wrench.

Secure the sleeve and plug (torque: 3-4.0 N·m).

Tighten the nut (torque: 3-5.0 N·m).

Push the threaded sleeve to connection terminal until both are locked tightly on the inverter.

Removal of GRID connector

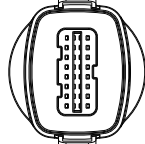
Remove the GRID connector: Using the matching U-shaped unlocking tool, remove the external mechanical latch, swirl the swirl, and then pull it out. Unscrew the threaded bushing and pull it out.

Loosen the nut.

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6. Communication Port Connections

Meter and RS485 should be connected to inverter by the connector illustrated in the figure below.



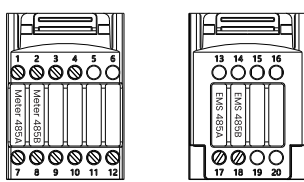
METER/CT/RS485 interface (20pin terminals)

	1	2	3	4	5	6	7	8
DRY	DRY	DRY	DRY	DRY	/	/	/	/
RLY2-	RLY2+	RLY1-	RLY1+	/	/	/	/	/
9	10	11	12	13	14	15	16	
GND	GND	+12V	RY Ctr1	/	/	/	/	
TVS	COM	SELV	/	/	/	/	/	
17	18	19	20					
EMS	EMS	/	/					
485A	485B							

NOTE

1) GND TVS, RY Ctr1, these wiring terminals are tested in the factory, please do not connect them.

2) PIN1-PIN4 (DRY_RLY1+/-, DRY_RLY2+/-) is Implement SO ready function, please refer to user manual for details.



NOTE

1) Pin11 is the power supply+12V, and Pin10 is the corresponding GND used.

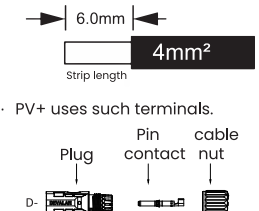
2) The maximum load of the 12V power supply port cannot exceed 10W (instantaneous current cannot exceed 1A); Otherwise, it will damage the inverter.

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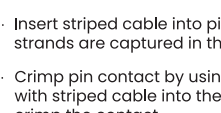
3. DC Connection

A. PV Connection

Choose 4mm² wire to connect the PV. Prepare PV wire as shown.

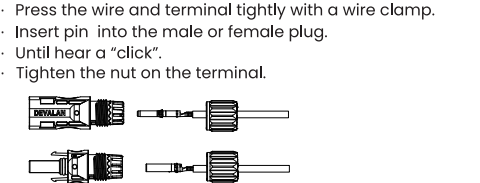


PV+ uses such terminals.



Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.



Press the wire and terminal tightly with a wire clamp.

Insert pin into the male or female plug.

Until hear a "click".

Tighten the nut on the terminal.

Warning

The PV terminal must be installed using the terminals provided in the accessory kit.

B. BAT Connection

It is recommended to use the power cable that comes with the BMS package. If the length does not meet the requirements, then make the line according to the following method.

Connect the BAT of the inverter and the battery port of the BMS with a power cable.

Communication with BMS, BMS communication line needs to be shorter than 10m Assemble the gland and screw the nut.

Min. operating voltage of the BAT is 120V.

Unlock the DC connector.

Use the specified wrench tool.

When separating the DC+ connector, push the tool down from the top.

When separating the DC- connector, push the tool down from the bottom.

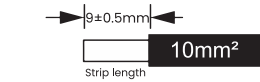
Separate the connectors by hand.

Battery Wiring

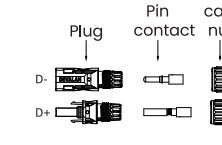
Turn off the DC switch.

Choose 10mm² wire to connect the battery.

Stripping the insulation to the appropriate length.

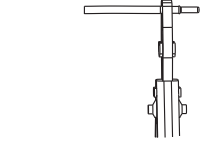


Separate the DC connector (battery) as below.

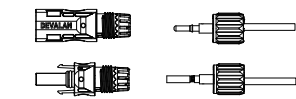


Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.

Crimp pin contact by using a crimping plier. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.



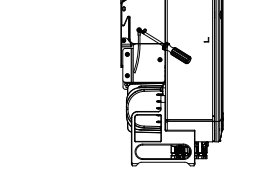
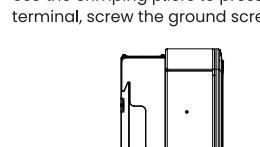
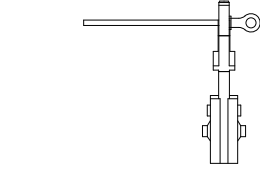
Insert pin contact through the cable nut to assemble into back of the male or female plug. When you feel or hear a "click" the pin contact assembly is seated correctly.



3

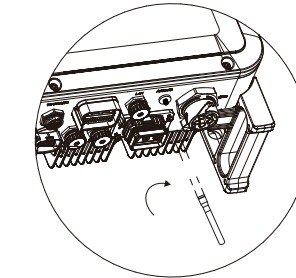
Insert striped cable into earth terminal and ensure all conductor strands are captured in the earth terminal.

Crimp earth terminal by using a crimping plier. Put the earth terminal with striped cable into the corresponding crimping pliers and crimp the contact.



D. External Antenna mounting

External antenna mounting
Manually tighten it

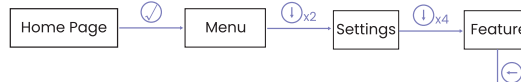


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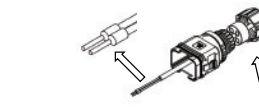
DRM Connection

NOTE

During the installation of communication terminals, it is essential to ensure a reliable sealed connection between the terminal cover and the sealing plug.



Step 1
Remove the plug inner stopper and thread the wire, as shown in the figure below.



NOTE

1. Local wiring colors are based on local codes, the quick release diagrams are for reference only.

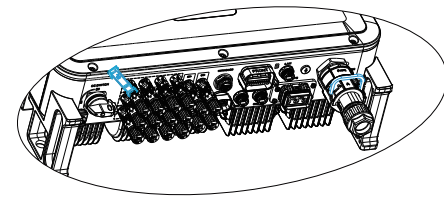
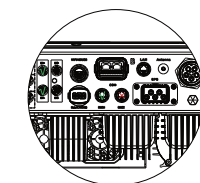
2. Compatible Meter type: DTSU666 (CHINT).

3. For other pin definitions, please refer to the user manual.

4. Communication A and B are marked on the side of the meter;

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Note:



Unlock the DC connector:

Use the specified wrench tool.

When separating the DC+ connector, push the tool down from the top.

When separating the DC- connector, push the tool down from the bottom.

Separate the connectors by hand.

1. When disconnecting the DC connector, use the PV Connector removal tool in the packing list. Align it with the buckle slot and press down, then pull the connector outward.

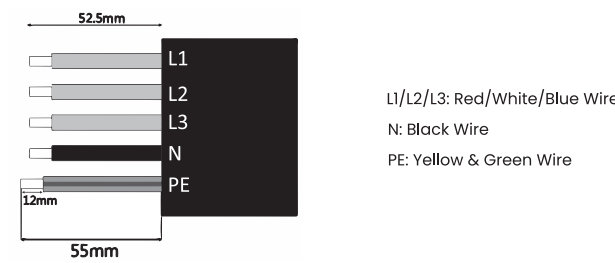
2. When removing the AC connector sleeve, use the U-shaped Removal tool in the packing list. Align it with the buckle slot and press down, then pull the sleeve apart to both sides.

4. AC Connection

Step1: Cable dimensions

Model (kW)	15.0	20.0	25.0	29.9-30.0
Cable (CN-GRID)	6.0-10.0mm²	10.0-16.0mm²	10.0-16.0mm²	10.0-16.0mm²
Micro-Breaker	40A	50A	63A	63A
Model (kW)	15.0	20.0	25.0	29.9-30.0
Cable (EPS)	6.0-10.0mm²	10.0mm²	10.0mm²	10.0mm²
Micro-Breaker	40A	50A	50A	50A

Step2: Prepare AC wire as shown in the picture



NOTE

Please refer to local cable type and color for actual installation.

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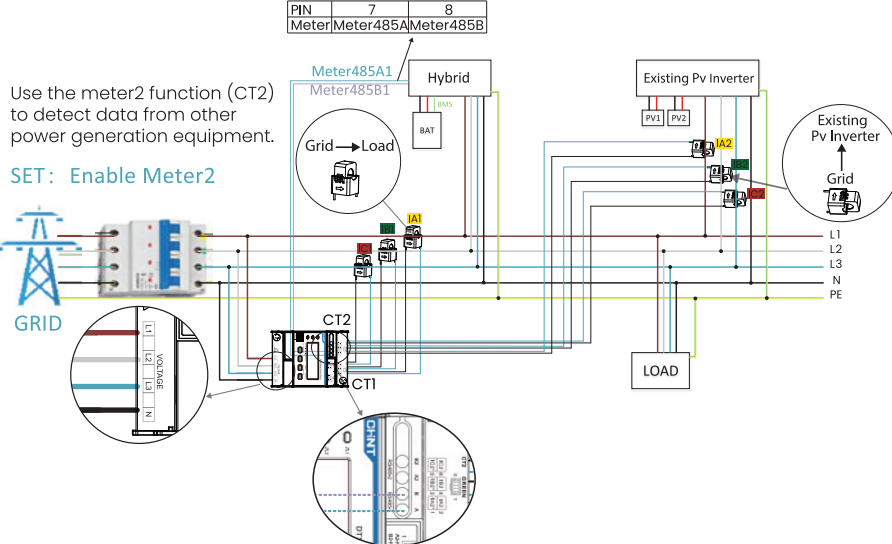
5. Meter Connection

The types of 6CT energy meters

6CT meter enables dual-meter functionality

Step 1:
A 6CT meter can be used to monitor the power output of an additional inverter or generation device.

Step 2:



NOTE

For the three-phase wiring of the Current Transformer (CT), it must be in phase with the corresponding voltage detection. Specifically, the CT corresponding to the L1 phase is (A), the CT corresponding to the L2 phase is (B), and the CT corresponding to the L3 phase is (C).

NOTE

The red power line is connected: the meter terminals L1, (A) and (A2) should be clamped to the red wire.

The white power line is connected: the meter terminals L2, (B) and (B2) should be clamped to the white wire.

The blue power line is connected: the meter terminals L3, (C) and (C2) should be clamped to the blue wire.

NOTE

Need to enable meter2

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7. Inverter Start-Up

Please refer to the following steps to start up the inverter.

1. Ensure the inverter fixed well.
2. Make sure all wirings are completed.
3. Make sure the meter is connected well.
4. Make sure the battery is connected well.
5. Make sure the AC-EPS contactor is connected well (if needed).
6. Make sure the BMS buttons and battery switch are off.
7. Turn on the PV/DC switch (for Hybrid version only), AC-GRID breaker, EPS breaker and battery breaker.
8. Set safety and system time on the screen according to the country and region where you are located.
9. If the main page shows "switch off", please long press "-" bottom to quickly go to the START/STOP page and set it to start. (Enter the settings page, default password is "0000").

NOTE

1. Add boot-up guide interface, the first boot-up need to select the safety regulations and set the time.

2. Set the time on the inverter using the button or by using the APP.

8. Monitor network configuration

Inverter connect to network, please click on the following link.

<https://www.foxesscloud.com/app/v2/download>



9. Inverter Switch Off

Please refer to the following steps to switch off the inverter.

1. Enter the settings page, select START / STOP and set it to stop.
2. Turn on the PV/DC switch (for Hybrid version only), AC breaker, EPS breaker and battery breaker.
3. Wait 5 min before you open the upper lid (if in need of repair).

Please scan the QR Code and follow the steps below to download our latest multi-language User Manual/Quick Installation Guide: Scan the QR Code -> Select your Language -> Choose to download User Manual or Quick Installation Guide -> Download



NOTE

The inverter installation is complete. For battery installation, please refer to battery quick installation guide.

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