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HYXiPOWER S30K Three Phase String Inverter



Specifications

- **Model:** S30K/S33K/S36K/S40K/S50K-T
- **Phase:** Three-phase
- **Max.Voltage Tolerance:** 1100V
- **Operating Environment:** Indoor/Outdoor

Product Usage Instructions

Installation Preparation

Before starting the installation process, conduct a site survey to plan equipment positions and wiring schemes based on the provided diagram.

Device Installation

Follow these steps for device installation:

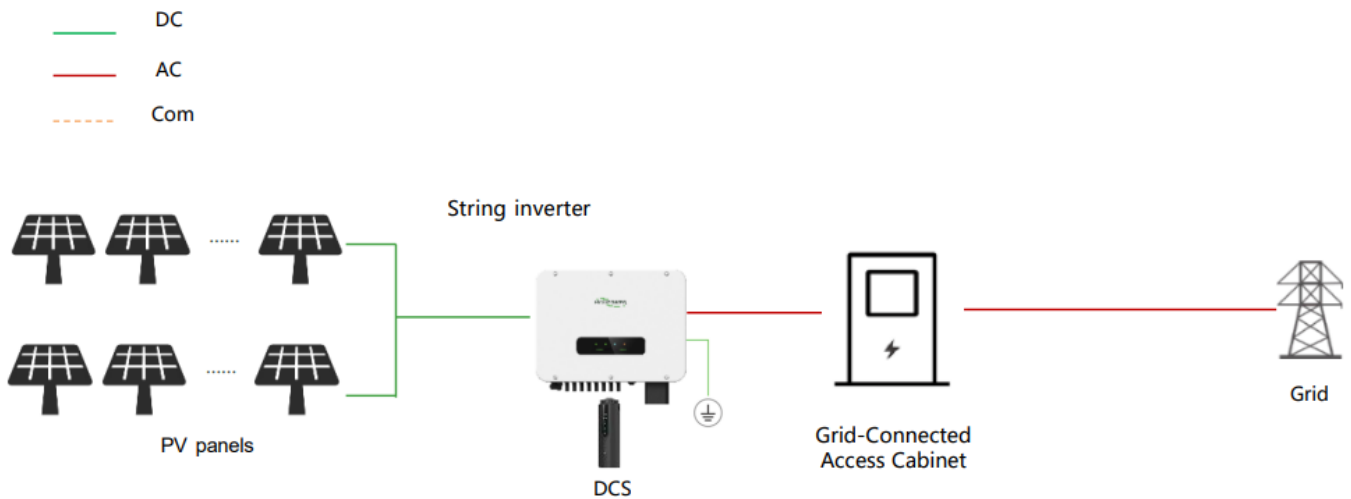
1. Mount the inverter securely using the provided mounting ear bracket.
2. Connect the DC input port from the photovoltaic panel to the inverter.
3. Ensure proper ventilation by keeping the breather valve clear.
4. Connect the AC output interface to complete the wiring.

App Configuration

For app configuration:

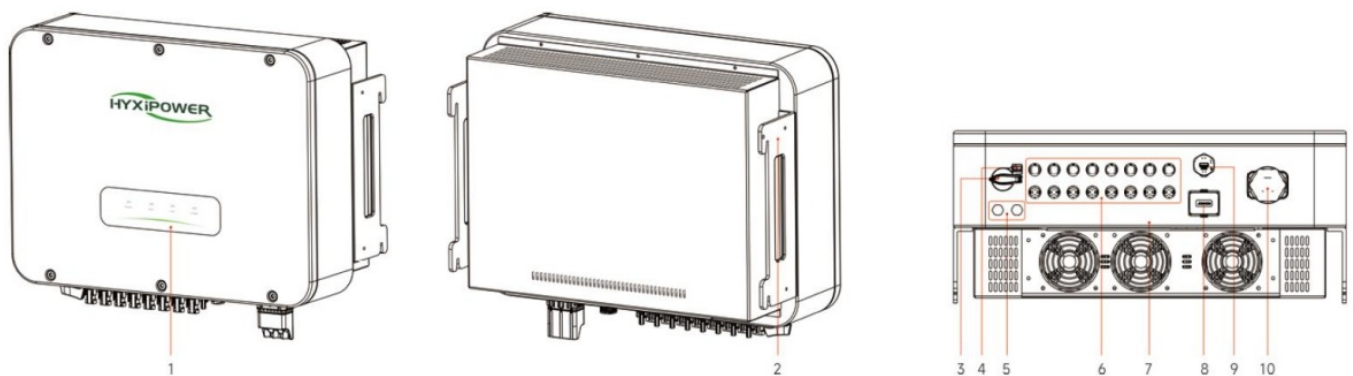
1. Use the Communication Interface(COM.2) for communication between the inverter and smart meter.
2. Configure the DCS Interface(COM.1) for DCS connection.
3. Utilize the LED Panel to monitor the inverter's operating status.

Program Overview Solution



Before installation, conduct a site survey and, referring to the diagram above, plan the equipment installation positions and wiring scheme in advance.

Inverter Introduction



| No. | Name | Description |
|-----|-----------|---|
| 1 | LED Panel | Displays the current operating status of the inverter |

| | | |
|---|---------------------------|--|
| 2 | Mounting ear bracket | Secure the top of the inverter |
| 3 | DC switch locking hole | Reserved DC lock hole |
| 4 | DC Switch | Photovoltaic panel DC power input switch |
| 5 | Breather valve | Ventilation |

| | | |
|----|-----------------------------------|---|
| 6 | DC input port | DC input port from the photovoltaic panel to the inverter |
| 7 | Cooling fan | Equipment cooling |
| 8 | Communication Interface(COM.2) | Communication port between the inverter and the smart meter |
| 9 | DCS Interface(COM.1) | DCS connection port |
| 10 | AC output interface | Inverter AC wiring port |

DCS Introduction

RESET button:

1. Press 2 times to restart
2. Press 3 times to enable local configuration (AP mode);
3. Press 4 times to restore factory settings (Within 1 second between pressing)



| Indicator | Status | Description |
|-----------|-------------|------------------------------------|
| Power | On | Power ON |
| | OFF | Power OFF |
| NET. | Solid Green | Connected to server |
| | Flashing | Connecting to server |
| | OFF | Disconnected from server |
| COM. | Solid Green | Normal communication with inverter |
| | Flashing | Communicating with inverter |
| | OFF | Communication with inverter failed |

Meter Introduction

The DTSU666 three-phase energy meter is an advanced device integrating high-precision metering, remote communication, and intelligent management. Equipped with a high-performance metering chip, this meter ensures accurate power measurement and supports real-time energy monitoring, enabling users to track electricity consumption effectively. Additionally, the DTSU666 features an RS485 communication interface and wireless modules, facilitating remote data exchange and centralized monitoring, thereby

significantly enhancing operational efficiency.



The DTSU666 three-phase energy meter



Current Transformer

The CT (Current Transformer), as a critical component of the DTSU666 energy meter, employs a non-contact measurement method, enhancing safety and reliability. It enables accurate high-current measurement and adapts to varying current and voltage levels, significantly expanding the meter's application scope.

Installation Preparation

Materials and Tools Preparation

Conduct a site survey and make plans in advance before installation







1. Plan the equipment placement in advance: Determine the mounting position for the inverter.
2. Understand the PV connection status on-site: Check whether photovoltaic (PV) panels are present and whether their current and voltage meet the inverter's specifications. If they exceed the specifications, inform the customer in advance to reduce the number of PV panels to avoid equipment damage.
3. Check the location of the inverter and the main circuit breaker where power enters the house.
4. According to the pre-installation assessment of the site environment, measure the required length of each cable and purchase the necessary cables in advance for

installation, as shown in the table on the right.

Important! ! The following cable products are not provided and need to be purchased separately.

| No. | Name | Description | Specification |
|-----|-----------------|--|---|
| 1 | PV Cable | Cables used from the photovoltaic panels to the inverter should be multi-core photovoltaic cables with a maximum voltage tolerance of 1100V. | conductor cross-sectional area $4\sim 6\text{mm}^2$ outer diameter of the cable $5.5\sim 9\text{mm}$ |
| 2 | AC output cable | Used for AC-side wiring of the inverter outdoor copper-core cable / aluminum-core cable | conductor cross-sectional area $16\sim 35\text{mm}^2$ copper-core cable / $35\sim 50\text{mm}^2$ aluminum-core cable outer diameter of the cable $20\sim 30\text{mm}$ |
| 3 | Ground wire | For equipment grounding use | conductor cross-sectional area $\geq 16\text{mm}^2$ |

Existing equipment list

| No. | Name | Figure | Description |
|-----|-----------------------------|---|--|
| 1 | Three Phase String Inverter |  | Includes one inverter main unit and related accessories. |
| 2 | DCS |  | After registering the device to the cloud server, it can be centrally managed through the cloud platform. |
| 3 | The DTSU666 energy meter |  | Measurement of circuit voltage, current, power, etc. |
| 4 | Current Transformer |  | To acquire grid-side AC current for precise inverter power output regulation and anti-islanding protection. Note: The directional arrow must be oriented toward the grid during installation. |
| 5 | Ethernet Cable |  | The device includes a 2-meter CAT5e Ethernet cable as standard. Extended cable lengths must be procured separately if required. |
| 6 | Wall-mounted Bracket |  | Wall-mounted inverter support (mounting bracket included in product packaging) |

Tool Installation



Electric Drill



Heat Gun



Hex Key



Wire Stripper



Hydraulic Pliers



Crimping Tool



Screwdriver



Marker Pen



Utility Knife



Multimeter



Tape Measure



Hammer

Protect Tool



Protective Mask



Safety Glasses



Insulated Safety Shoes



Insulating Gloves

Device Installation

Product Unboxing Inspection

Inverter Unboxing Inspection:

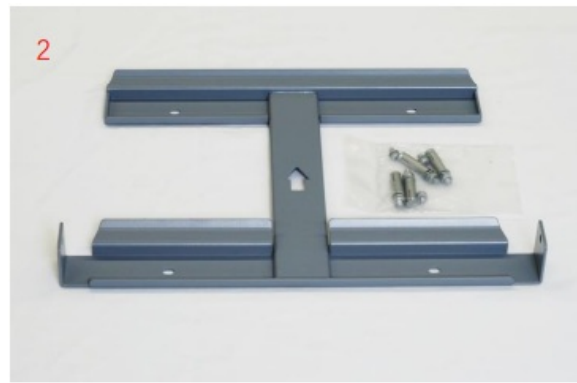
- Check whether the device hardware and ports are intact.
- Check whether the device accessories are intact.

| No. | Name |
|-----|------------------|
| 1 | Inverter |
| 2 | Mounting Bracket |
| 3 | Signal Connector |
| 4 | AC Connector |
| 5 | Hexagon Wrench |
| 6 | DC Connector |
| 7 | Screws |

1

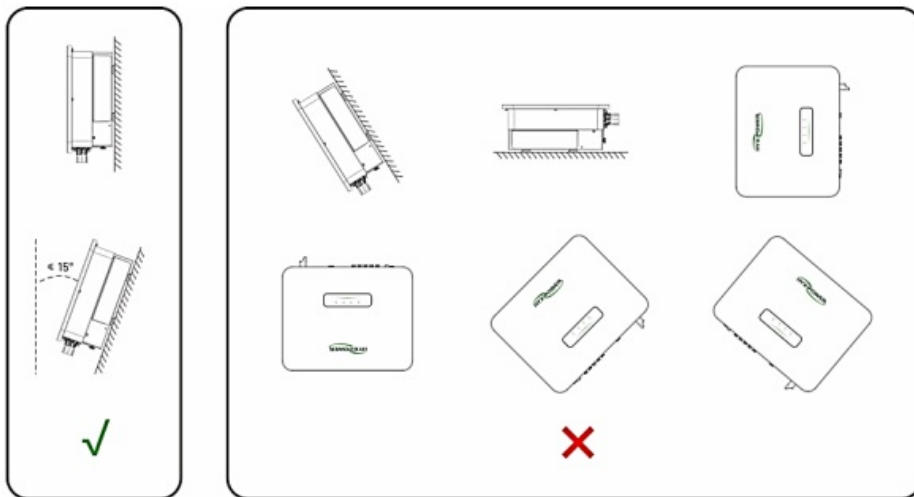
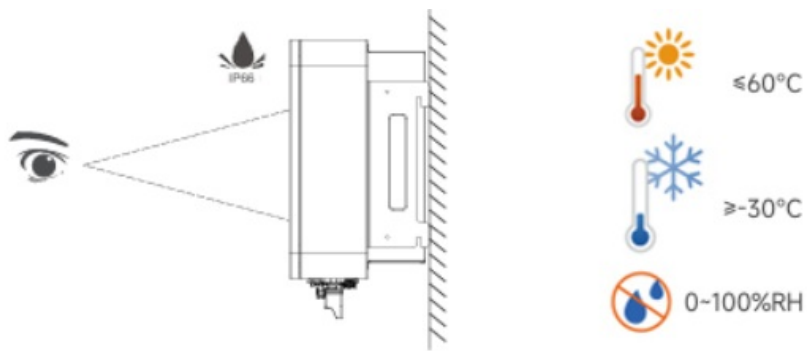


2



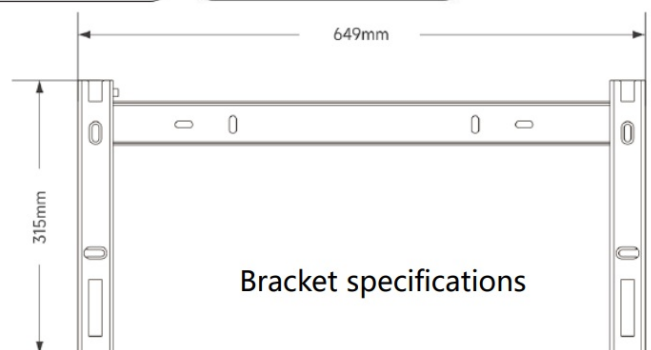
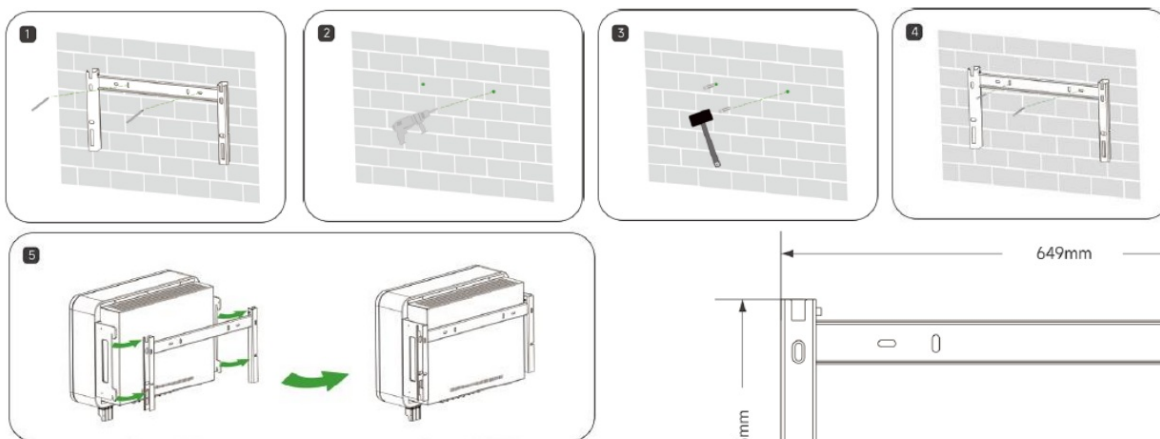
Environment Requirements

1. Suitable for both indoor and outdoor installation.
2. -30°C to +60°C, 0~100% relative humidity (RH).
3. Select a shaded location to avoid direct sunlight and protect against rain/snow.
4. Ensure proper ventilation for heat dissipation.
5. The mounting structure must support at least 4 times the inverter's weight.
6. Mount vertically or tilted backward $\leq 15^\circ$ to optimize thermal performance.
7. Do NOT install forward facing, backward facing, upside down, horizontally, or sideways.
8. For multi unit installations, maintain $\geq 300\text{mm}$ clearance between inverters.



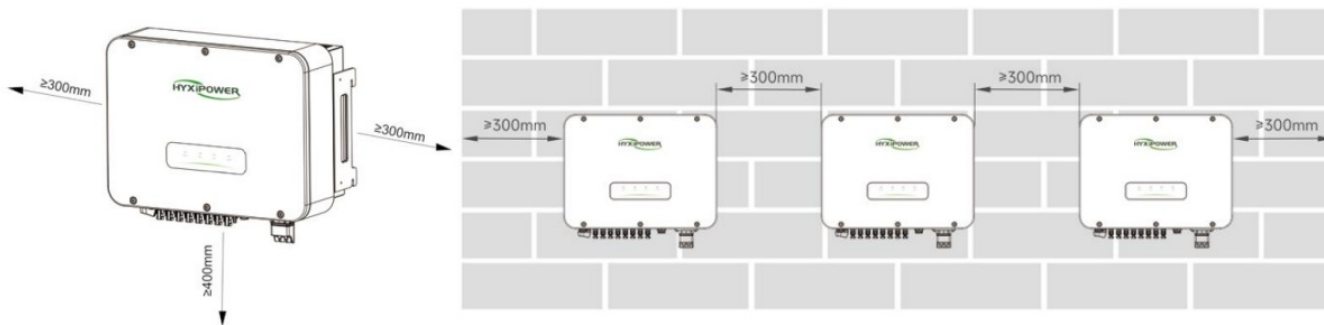
Inverter Installation

The mounting bracket and inverter can be securely installed in the following ways:



Inverter Installation

When installing multiple inverters, a distance of at least 300mm should be maintained between two inverters.



Note: Before installing the equipment, please ensure that the photovoltaic panels are installed and the cables have been properly laid.

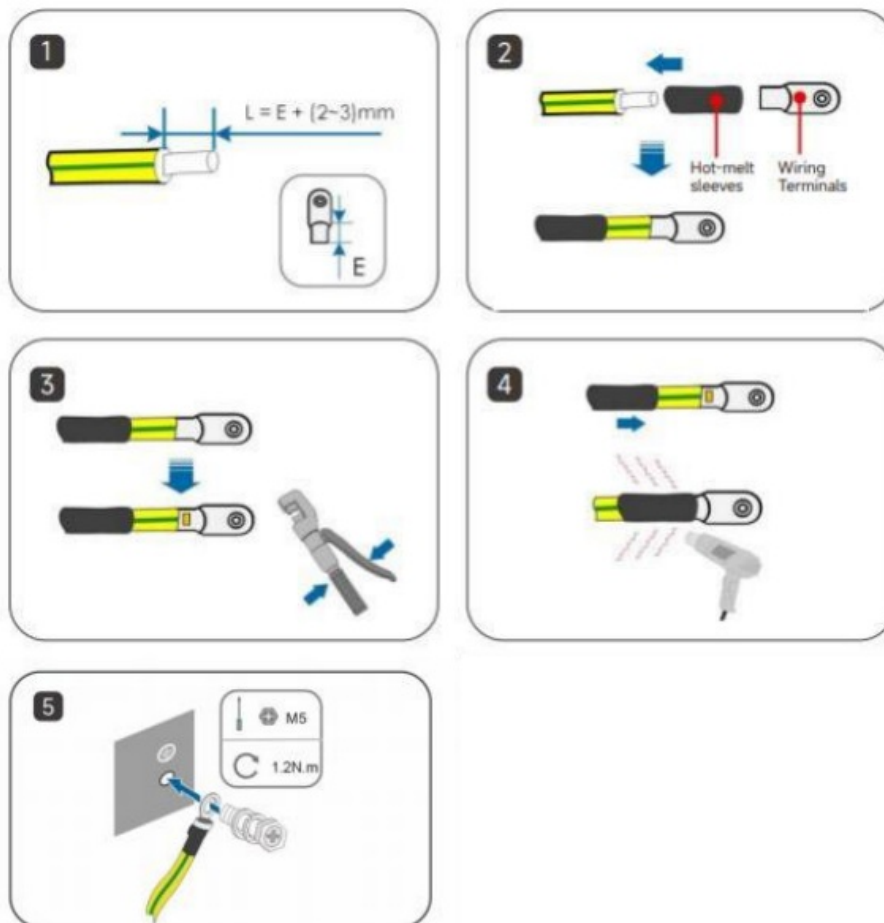
Step 1: Strip off a certain length of insulation $L=E+(2-3)\text{mm}$.

Step 2: Pass the cable through the hot melt sleeve and insert it into the terminal block.

Step 3: Use crimping pliers to tightly connect the terminal blocks and cables .

Step 4: Adjust the hot melt sleeve to cover the end of the terminal block and the power cord, and use a hot air gun to blow the hot melt sleeve to cover the end of the power cord and terminal block.

Step 5: Use a screwdriver to fix the ground wire to the inverter ground position.



PV-side connection

Step 1: Keep the switch on the inverter turned off.

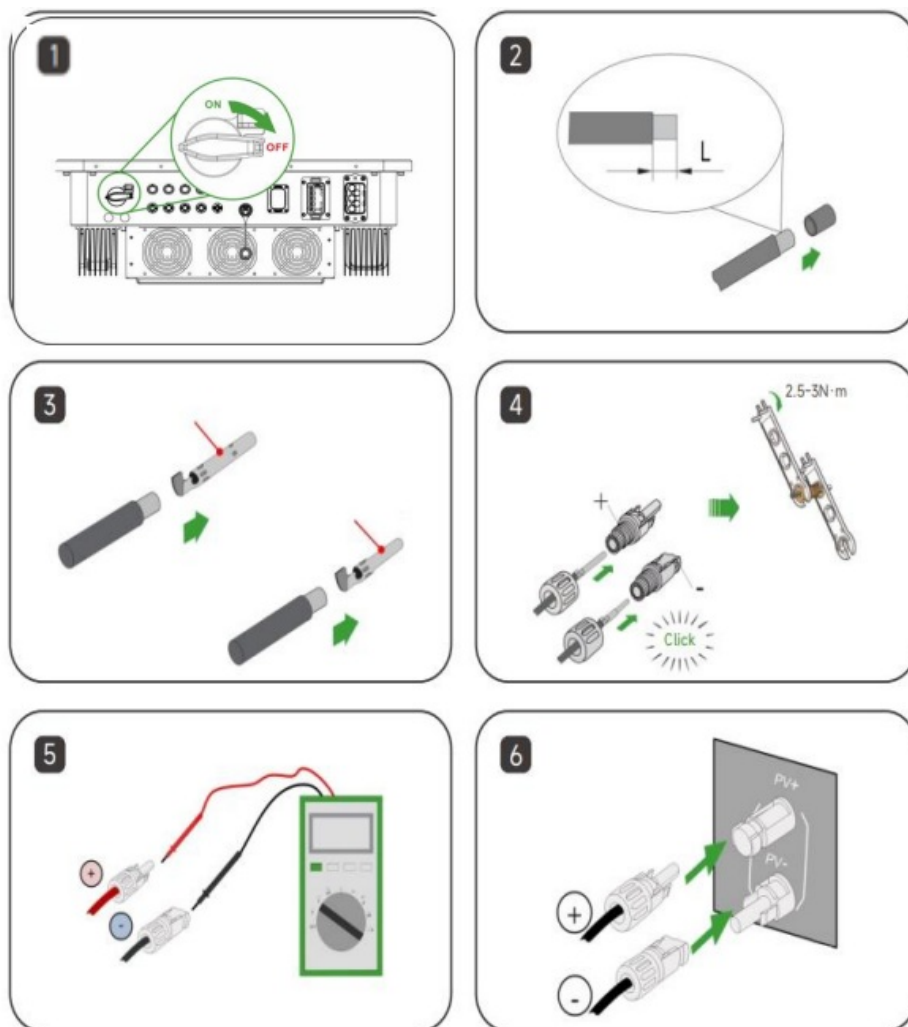
Step 2: Strip all DC cables insulation by approximately 7 mm.

Step 3: Use crimping pliers to bundle the cold-pressed terminals to the cables. Note that the positive and negative terminals are different and need to be distinguished.

Step 4: Insert the cable through the cable sealing sleeve, insert it into the insulating sleeve and fasten it, and pull the cable gently to make sure it is tightly connected. Use 2.5 ~ 3N-m force to tighten the sealing sleeve and insulation sleeve.

Step 5: Use a multimeter to check whether the polarity of the photovoltaic string connecting cable is correct.

Step 6: Connect the PV connector to the corresponding terminal on the inverter until you hear a “click” sound.



AC-side connection

Step 1: Use a T20 internal Torx screwdriver to tighten the locking plate screw with a torque of 1.2 ± 0.1 N·m. Step 2: Insert the stripped wires into the corresponding wiring holes according to the wiring sequence.

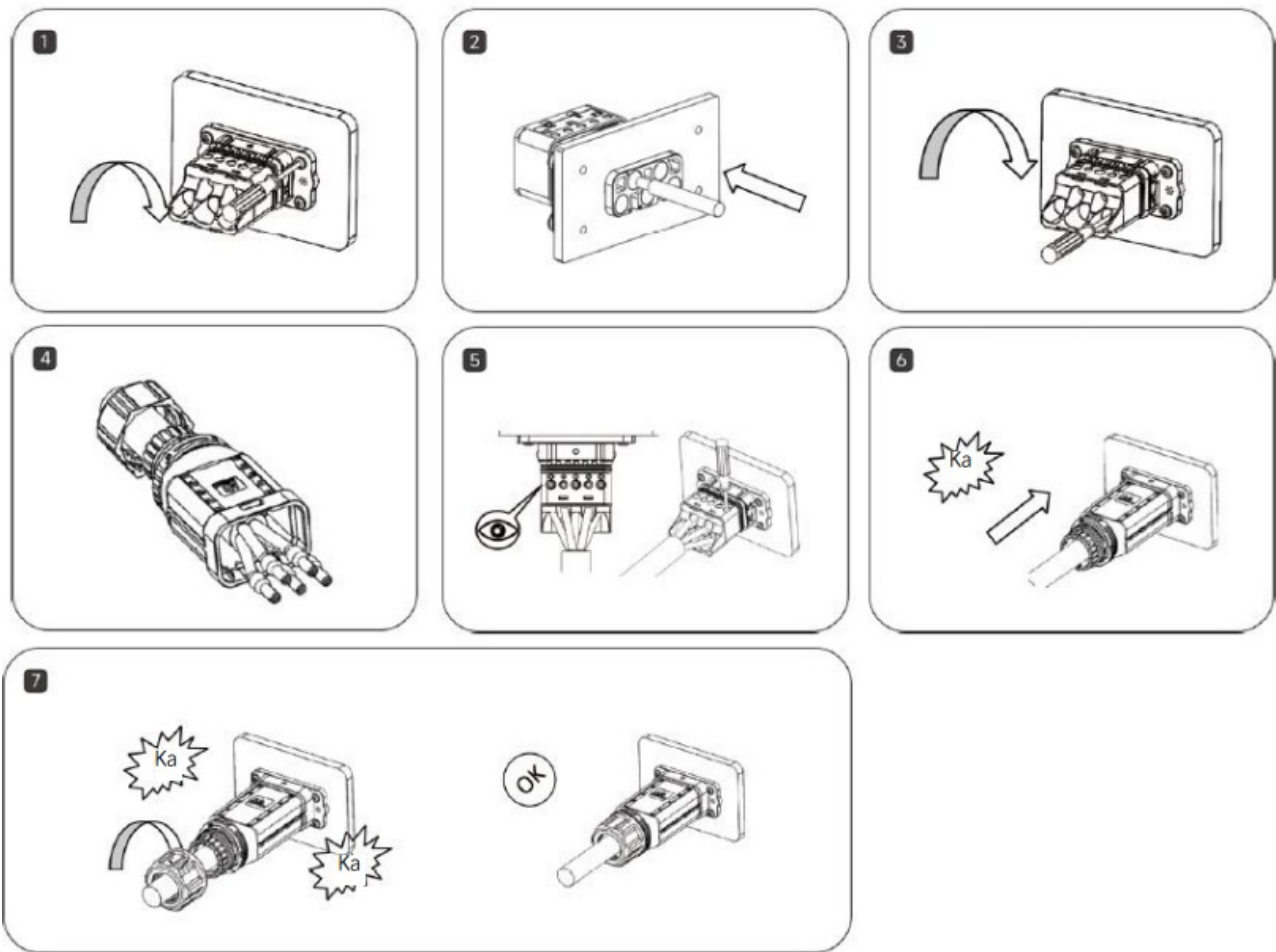
Step 3: Use a T8 internal Torx screwdriver to crimp the wires, with a torque of 1.2 ± 0.1 N·m.

Step 4: Pass the stripped wires through the locking nut in sequence; for the main body (flexible wires), crimp insulated terminals.

Step 5: Insert the cables into the rubber core according to the wiring sequence, check through the inspection hole to ensure the cables are in place, then tighten the crimping screw with a torque of 4 ± 0.1 N·m.

Step 6: Insert the main body into the rubber core and listen for a “click” sound.

Step 7: Use an open-end wrench to tighten the nut with a torque of 10.0 ± 0.1 N·m; the installation is complete after hearing “click, click” sounds.



Meter Connection

Step 1: Pull the crimping assembly out of the communication terminal.

Step 2: Insert the meter's RS485 2-pin wire into the communication terminal as shown, then strip the wires.

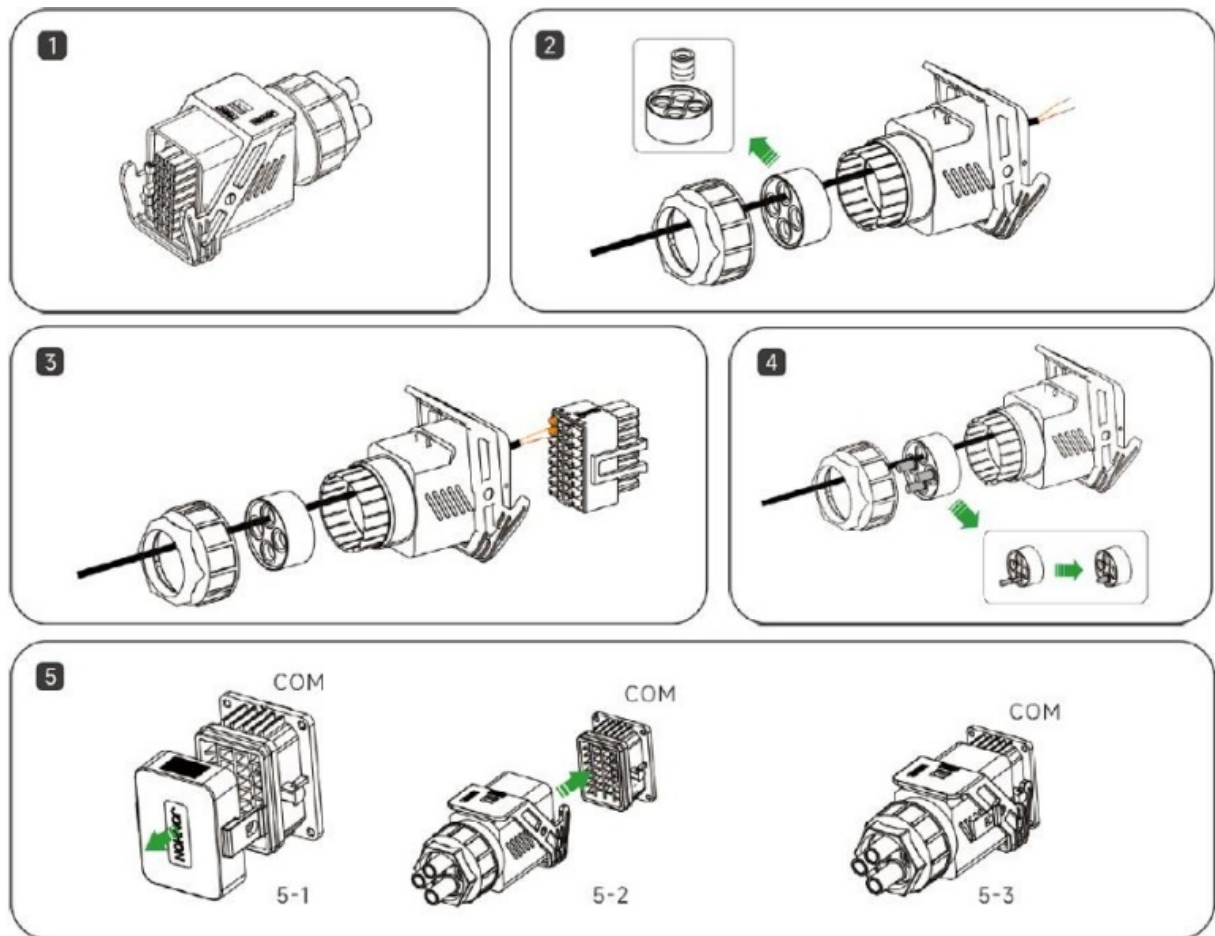
Step 3: Crimp the stripped RS485 2-pin wires onto the crimping component (press the yellow button). Refer to Device Installation Step 9 for details.

Step 4: Insert the waterproof rubber plug into any unused ports. **Step 5:** Remove the inverter's COM port cover, insert the communication terminal, and secure the latch.

Step 6: Connect the meter in parallel to the grid (refer to Device Installation Step 10).

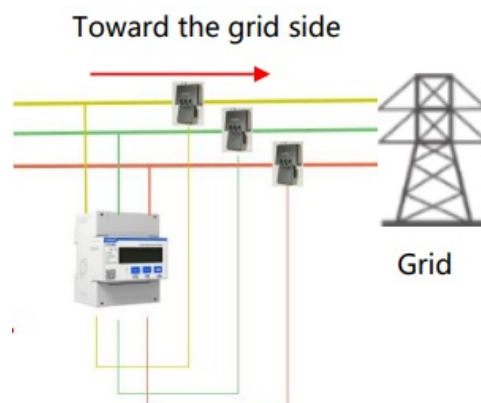
Step 7: Install the three current transformers (CTs) by clamping their magnetic cores

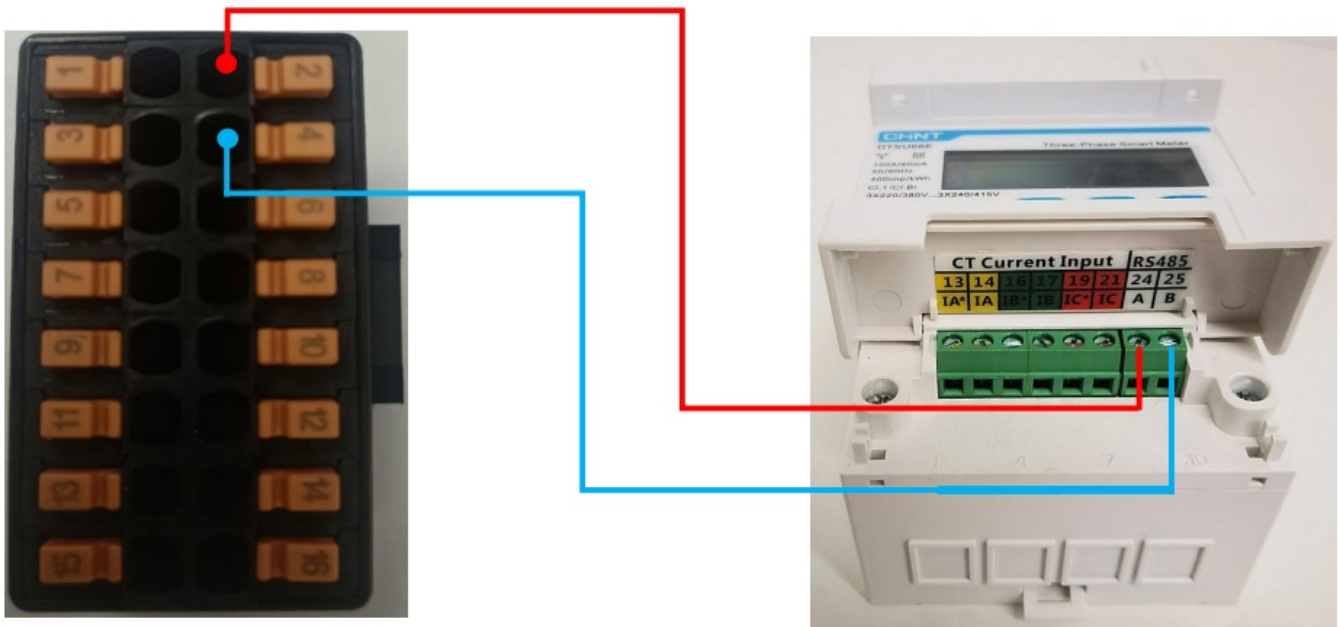
around each phase line (L1/L2/L3) between the circuit breaker and the grid. Ensure the arrow markings point toward the grid side (see diagram below).



Caution

Only the meter models specified by HYXiPower shall be used.

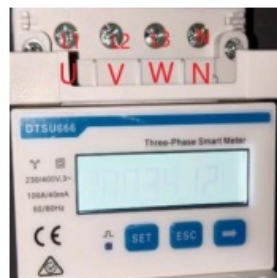




**COM Communication Port
(Close-up View)**

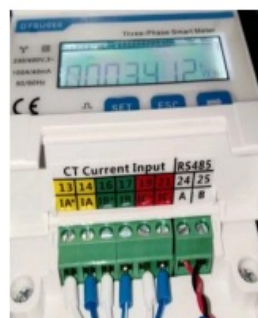
Note:

Pin 2 on the COM port connector corresponds to RS485 Communication A on the meter, and Pin 4 corresponds to RS485 Communication B. (It is recommended to use twisted-pair cable for connection.)



U : Line Wire R
V : Line Wire S
W : Line Wire T
N : Neutral Wire

**Wiring Diagram
(Top Side of
Electricity Meter)**



**Wiring Diagram
(Bottom Side of
Electricity Meter)**

Wiring Diagram (Top Side of Electricity Meter)

- Connect the three-phase live wires and neutral wire between the grid and the inverter as shown in the diagram. The phase sequence of the upper terminals L1, L2, L3 must correspond one-to-one with the lower CT terminals IA (13,14), IB (16,17), IC (19,21). Ensure all CT arrows point toward the grid side.

Wiring Diagram (Bottom Side of Electricity Meter)

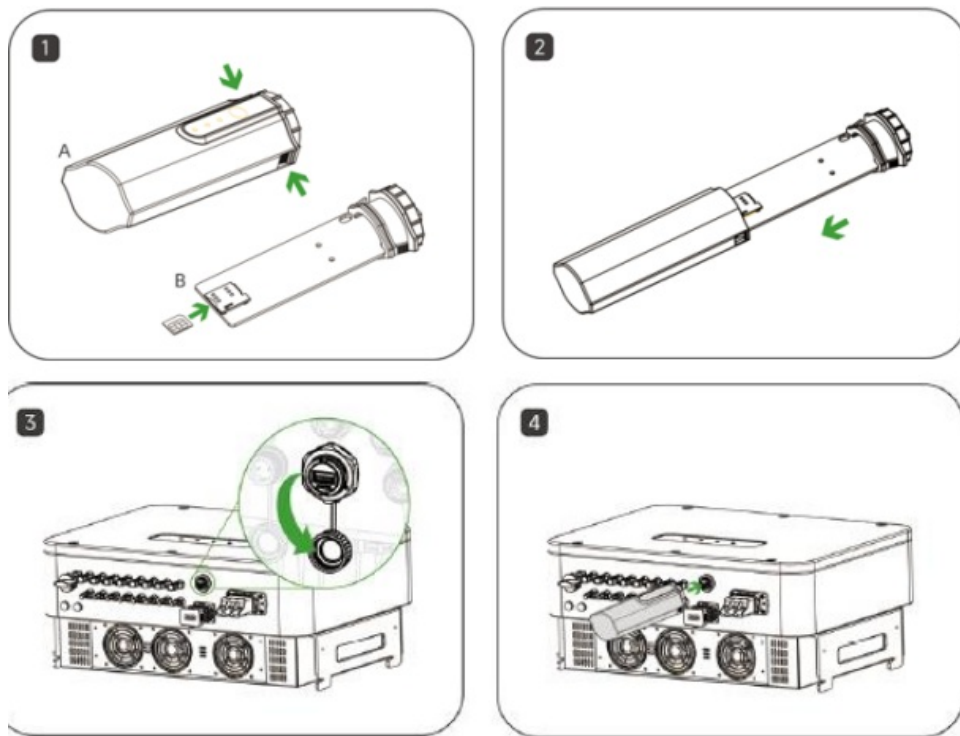
- For the current transformer (CT) communication wires connected to the three-phase live lines: the white wire corresponds to I*, and the blue wire corresponds to I.
- The inverter communicates with the meter via PIN 2 (A) and PIN 4 (B) of the COM port.

Device Installation

DCS Connection

1. DCS Installation(4G Version)

- **Step1** Remove the DCS protective cover and insert the SIM card.
- **Step2** Install the DCS waterproof cover
- **Step3** Remove the waterproof cover from the inverter communication interface.
- **Step4** Insert the DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure a secure connection.

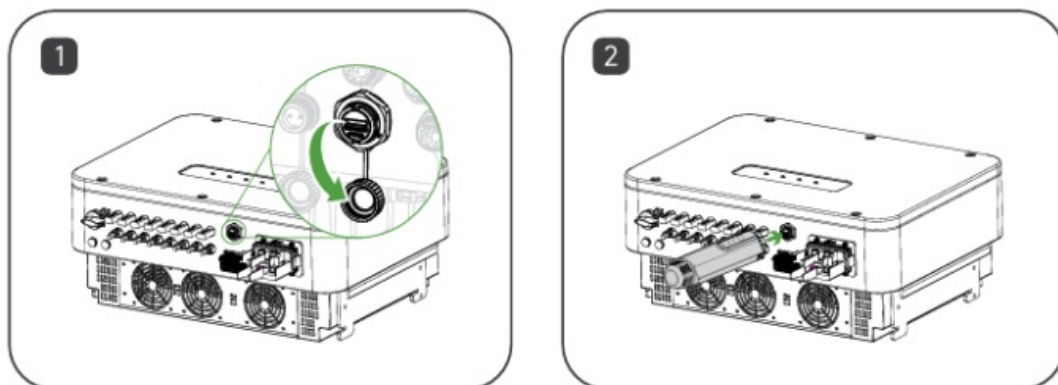


2. DCS Installation (The WiFi version does not require SIM card installation or removal.)

Step1 Remove the waterproof cover from the inverter's communication interface.

Step2 Insert the DCS into the corresponding communication terminal at the bottom of the inverter, tighten it, and ensure it is securely connected.

Note: For the WiFi version, if the on-site signal is weak (below -60 dBm), it is recommended to add a WiFi repeater to enhance the network signal. Otherwise, there is a risk that device data may fail to upload to the platform.



Inverter System Startup

Step 1: Open the circuit breaker on the AC side.

Step 2: Open the circuit breaker on the photovoltaic side.

Step 3: Turn on the DC switch on the inverter.

Step 4: Confirm the indicator light status of the inverter. The indicator light status in Figure 2 is normal.

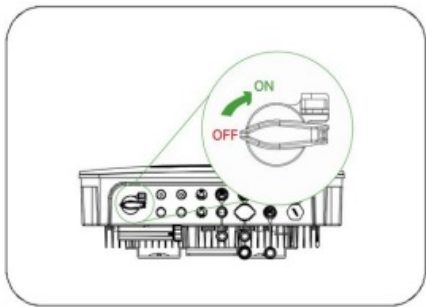


Figure1

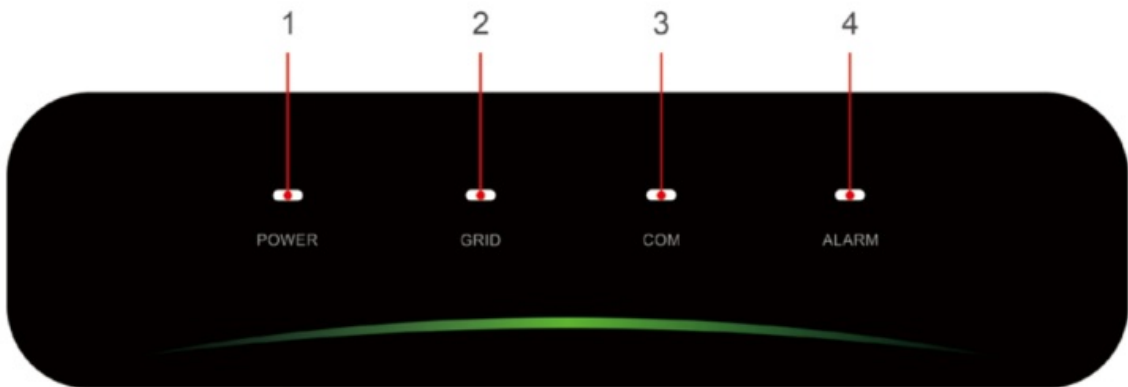


Figure2

| 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 |
| 3 | COM. | ON | COM. Normal |
| | | Blink 1 | Meter COM. Fault |
| | | | |

| | | | |
|---|-------|---------|-------------------------|
| | | Blink 2 | COM. Fault With BMS |
| | | OFF | Fault Both Meter&BMS |
| | | OFF | Normal |
| 4 | ALARM | Blink 1 | Inverter Internal Alarm |
| | | Blink 2 | Other Alarms |
| | | | |

APP Configuration

Registration

1. Download HYXipowerAPP
2. Register the account of the person in charge of the organization

Near-end Commissioning

Register the DCS communication stick to the cloud server through local debugging.
All Hyxipower equipment is managed using the cloud platform. After the equipment is registered to the cloud server, it can be managed uniformly through the cloud platform

Create a Plant

Create a power station for users

You can manage the equipment through the power station and check the equipment status, system power generation and usage, etc.



The entire process requires 2 email accounts: Organization and Owner. Step 2:
Download the APP and register

Method 1

Search “Hyxipower ” in the Application Store · APP store (IOS) · Google play

Method 2

Scan the QR code download the APP



Step 3 : According to the country or region, select server, select organization , fill in the relevant information and register.

The first screenshot shows the HYXipower login screen. It includes a 'Language' selector, the HYXipower logo, a login form with email and password fields, a 'Forgot Password?' link, and a 'Register Now' button. Below the login form are links for 'Device Installation' and 'Demo Site'.

The second screenshot shows the 'Select Role' screen. It prompts the user to 'Please select the relevant server for your area' and shows 'European Server' as an option. Below this, it asks if the user is an installer or distributor and offers to 'Register as Organization'. Other options include 'Register as Owner' and 'Registered Balcony System Homeowner'.

The third screenshot shows the 'Register as Organization' form. It includes a note about existing organization accounts, a field for 'Organization/ Company Name', a 'Registration Method' section with an email field (showing '@hotmail.com') and a 'Send' button, and a 'Complete Info' section with 'Password' and 'Confirm Password' fields. A 'Register' button is at the bottom, along with a checkbox for agreeing to terms and privacy policy.

Near-end Commissioning



Registration

1. Download HYXipower APP .
2. Register the account of the person in charge of the organization.

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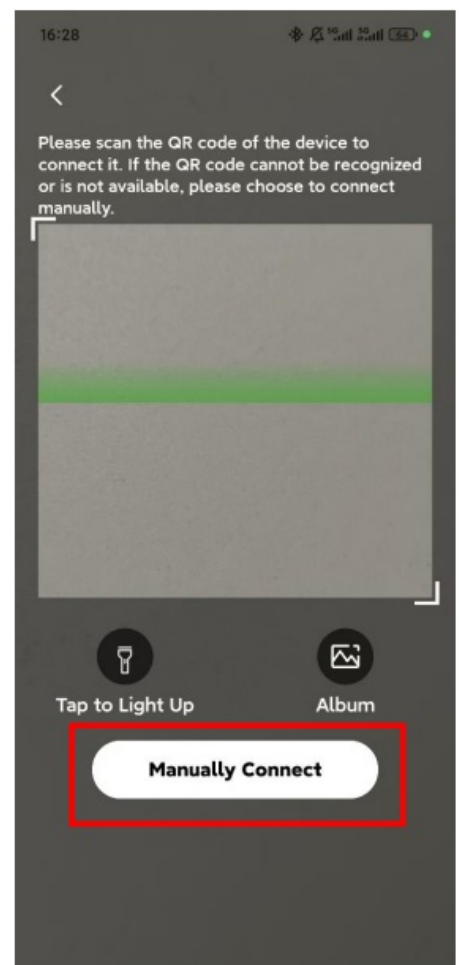
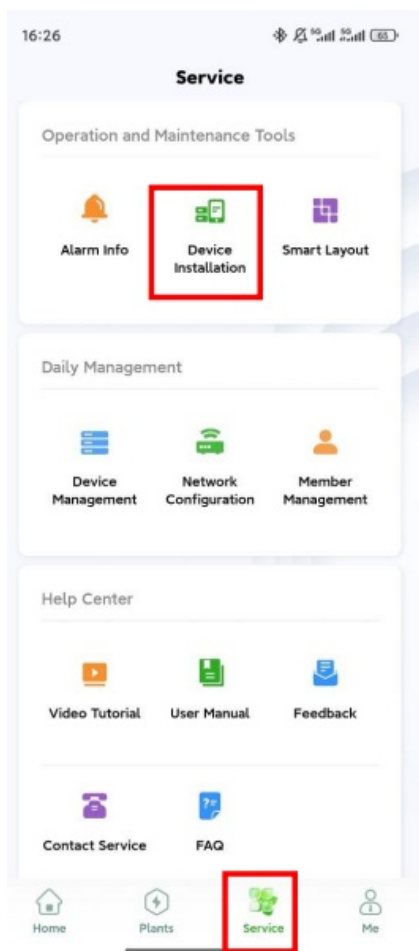
Create a power station for users

You can manage the equipment through the Plant and check the equipment status, system power generation and usage, etc.

Near-end Commissioning

Step1: Click Device Installation in Service interface.

Then scan the QR code of the Data Communication Stick. If failed ,click the Manually Connect.



Step2 Device login, initial password: hyxi0607. Log in and change the password, then save it.

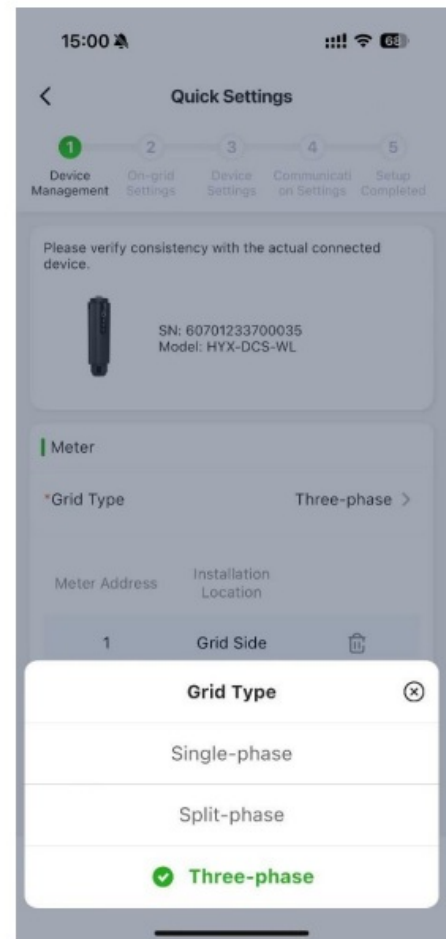
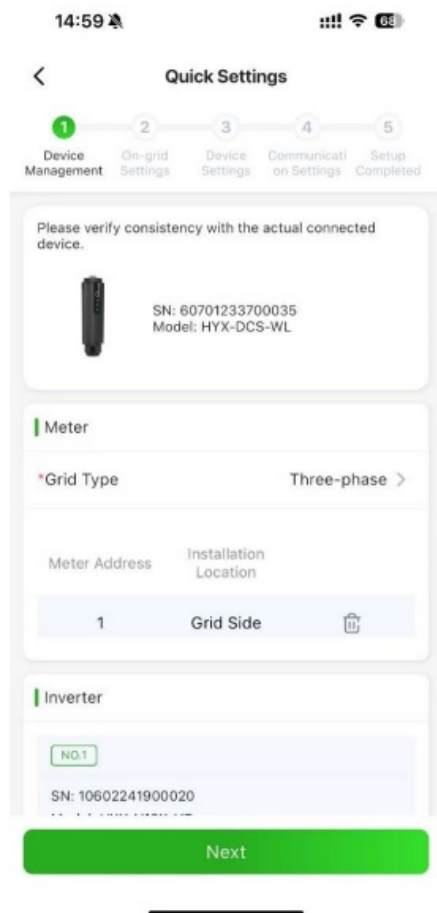
If you forgot the password, quickly press the RESET button on the DCS four times to restore factory settings



The image shows a mobile application's authentication screen. At the top, there is a back arrow and the title 'Authentication'. Below this is a faint background image of a solar inverter. In the center, there is a black icon of a USB-like device. Below the icon, the text 'Current Device SN 60701233800024' is displayed. Further down, there is a red-bordered box containing the label 'Installer' and a dropdown arrow. Below this box is a 'Password' field with a toggle icon. Under the password field is a green link that says 'Forgot Password'. At the bottom, there is another red-bordered box containing a green 'Log In' button.

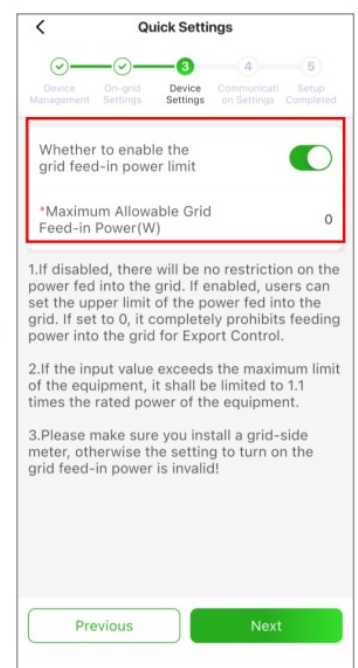
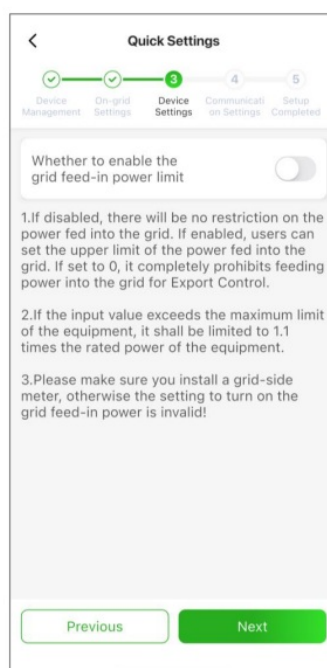
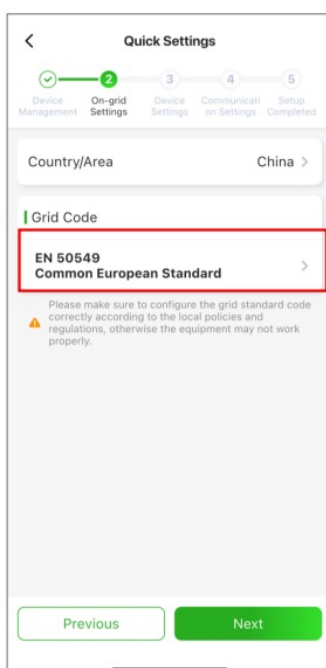
Step3: Quick Settings

- **Device Management:** The DCS automatically reads the inverter's SN and model number.
- **Meter settings:** 1. Grid type—Three-phase; 2. Configure meter—default address 1, install on grid side.



Step4 2 On-grid Settings: Select the corresponding country's grid-code, then click Next.

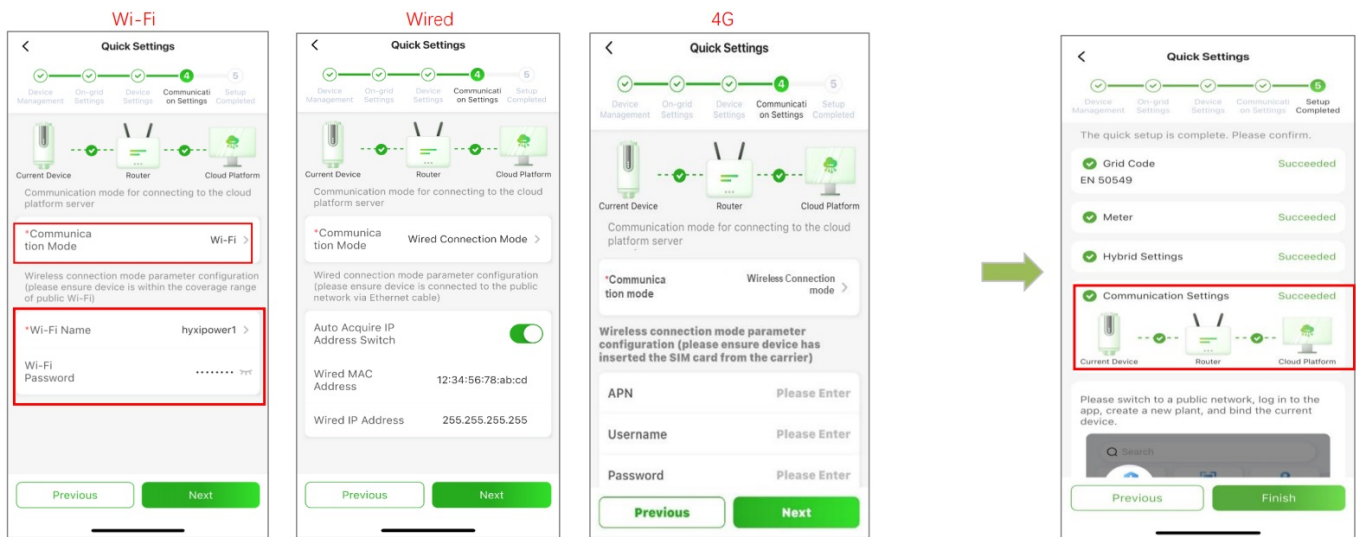
Step 5 ③ Device Settings – Set feed-in power limit (enable and set to 0 to stop feeding grid).



Step6 ④ Communication Settings Wi-Fi Mode: Enter Wi-Fi name and password.

Wired Mode: Ensure automatic IP acquisition is enabled.

4G Mode: The APN, username and password will be recognized automatically, and proceed to next step after setup.



Create a Plant

Registration

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2. Register the account of the person in charge of the organization.

Near-end Commissioning

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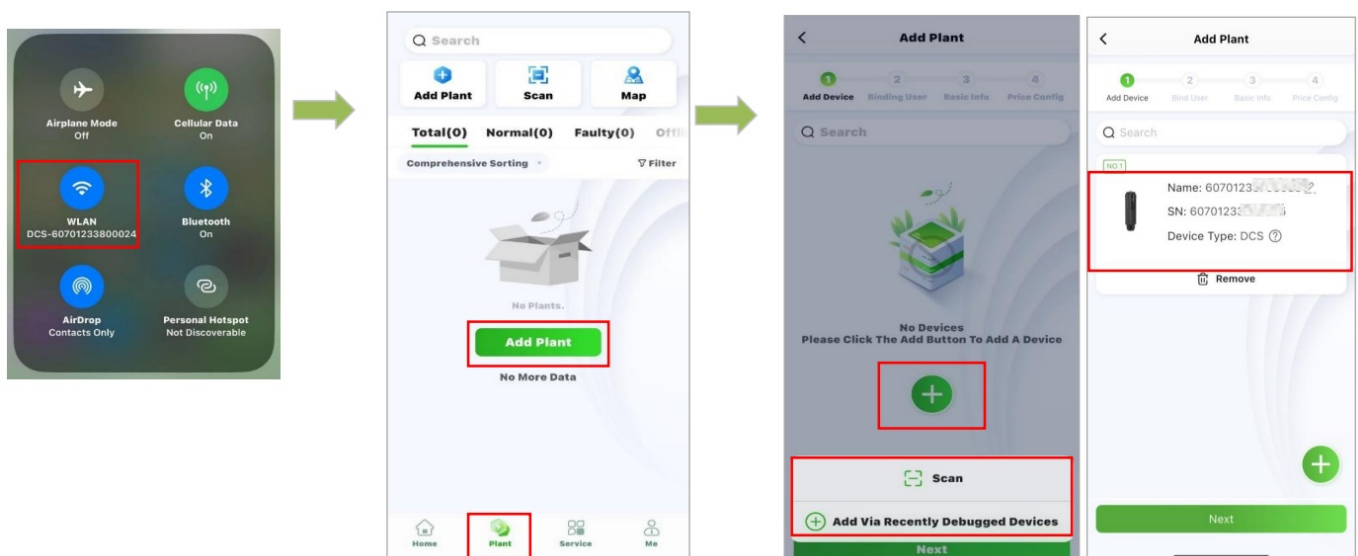
You can manage the equipment through the Plant and check the equipment status, system power generation and usage, etc.



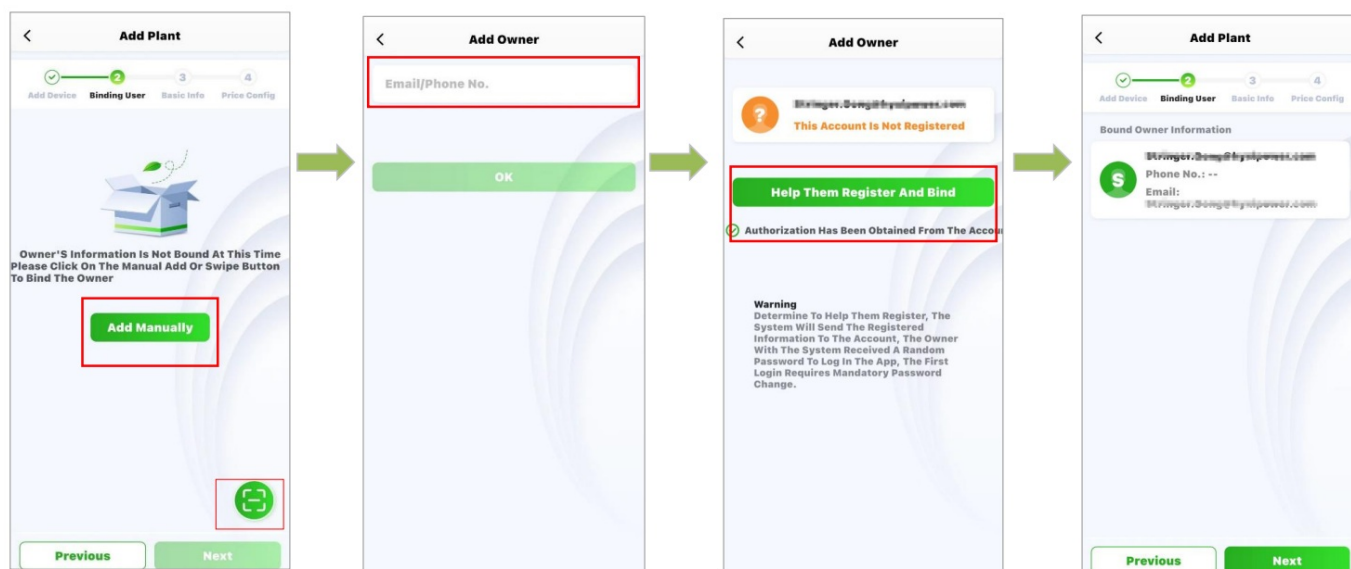
Step 1: Disconnect the phone from the DCS's WiFi. Make sure your phone has Internet access

Step 2: Log in to the organization account, click “Add Plant”

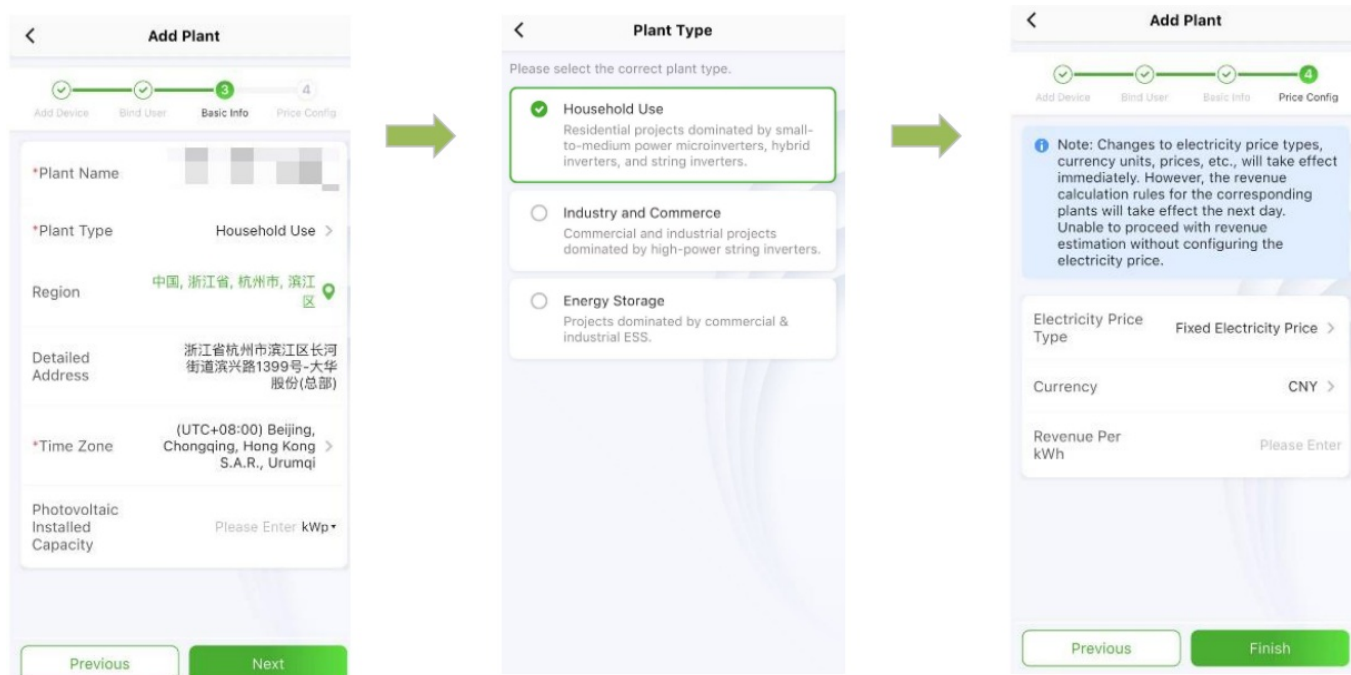
Step 3: Scan the QR code of the DCS or add it through Recently Debugged Device



Step 4: Add owner – manually add or scan the owner’s QR code to bind. Manually add – enter the email address or mobile phone number of the Plant owner. If the owner is not registered, click to help him register and bind. The system will generate a random password and send a text message or email to the registered account



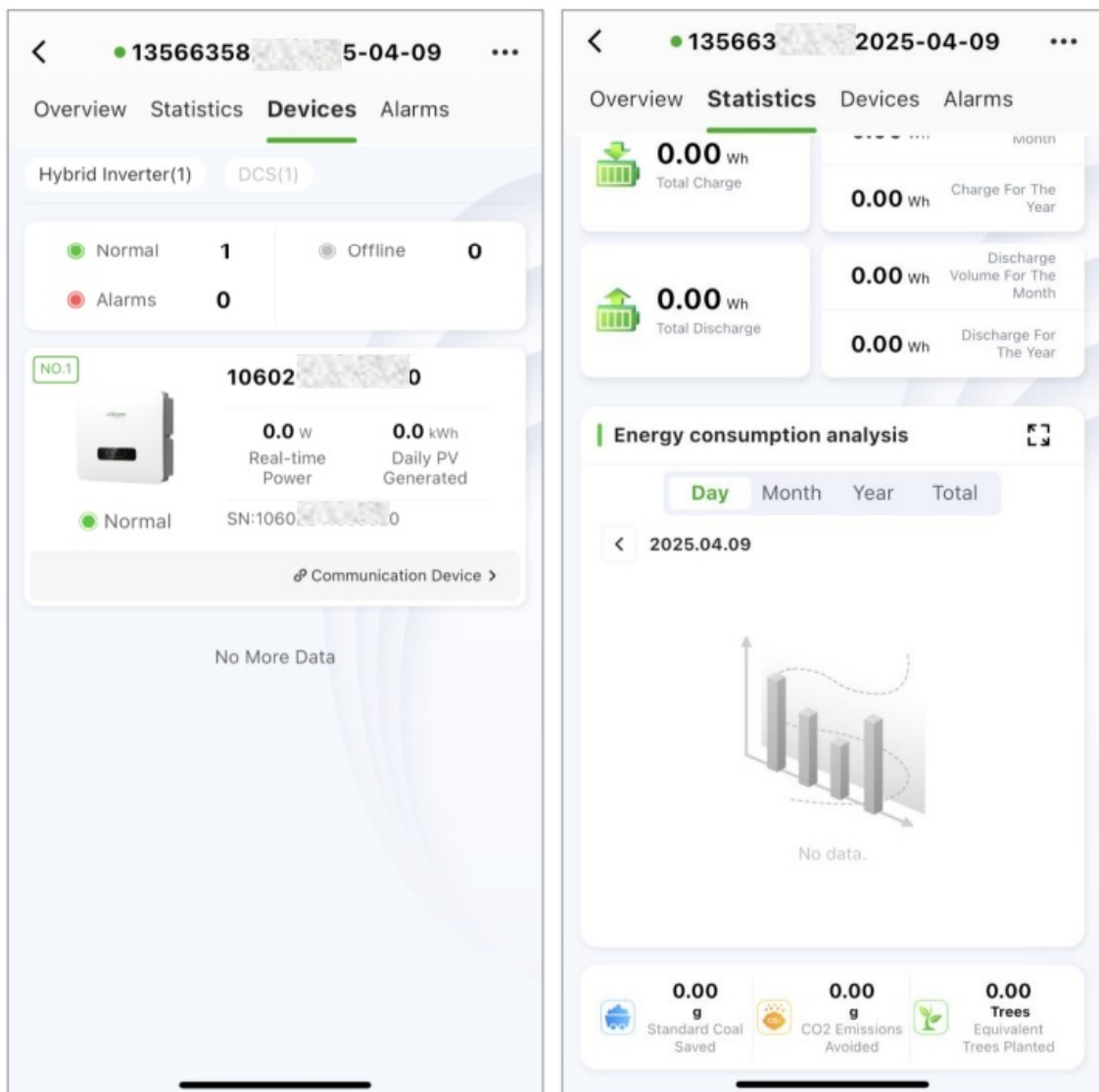
Step 5: Fill in basic information including Plant name, Plant type(Household Use), Region, Time Zone, and More information including Photovoltaic Installed Capacity, etc.



Step1: Select the plant, enter the user's plant interface, go to the device interface, and ensure the devices are online and functioning normally.

Step2: After installation, continuously monitor for at least 30 minutes. Select Statistics, go to the Energy consumption analysis interface, check the real-time power generation curve to confirm the plant has started normal electricity production.

After all the above checks are confirmed normal, it indicates successful installation and commissioning of the equipment!



THANKS

Delivery and Service Center

FAQ


What type of cables are required for installation?

PV Cable: Multi-core photovoltaic cables with a maximum voltage tolerance of 1100V.

How can I reset the inverter?


Press the RESET button as follows Press 2 times to restart. Press 3 times to enable local configuration (AP mode). Press 4 times to restore factory settings (within 1 second between pressing).

Documents / Resources

| | |
|---|--|
|  | HYXiPOWER S30K Three Phase String Inverter [pdf] Installation Guide S30K, S33K, S36K, S40K, S50K, S30K Three Phase String Inverter, S30K, Three Phase String Inverter, Phase String Inverter, String Inverter |
|---|--|

References

- [User Manual](#)

-  HYXIPOWER
-  HYXIPOWER, Phase String Inverter, S30K, S30K Three Phase String Inverter, S33K, S36K, S40K, S50K, String Inverter, Three-Phase String Inverter



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