



WiFi Microinverter System

HYX-M300/400/500/600/700/800/
900/1000/1600/1800/2000-SW
-General

Delivery & Service Department

April, 2025

品质

创新

高效

共赢

Contents

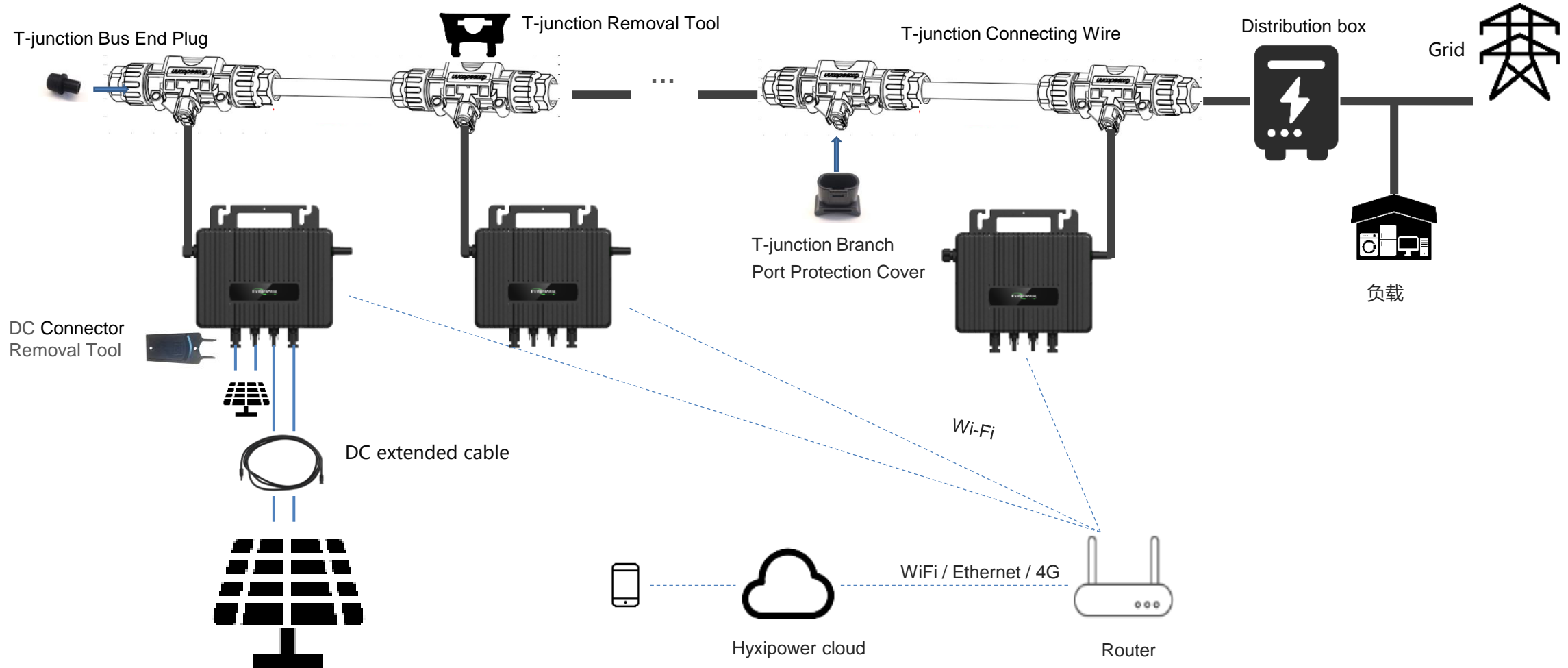
01 Program Overview

02 Installation Preparation

03 Device Installation

04 App Configuration

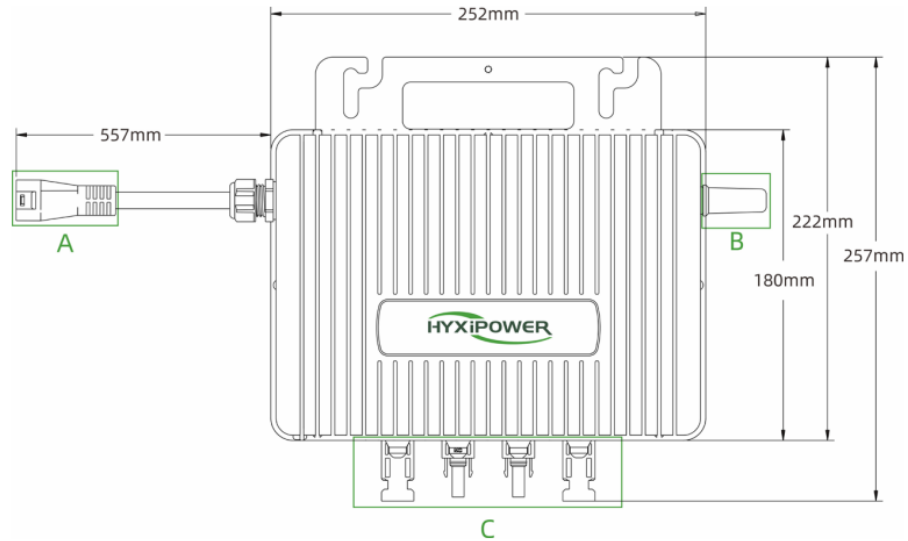
Program Overview-Solution Overview



Solid line: physical connection

Dashed line: internet connection

Program Overview- Inverter Introduction



No.	Component Name
A	AC Branch Connector
B	WIFI Antenna
C	DC terminal



LED Color	LED Status	Status Description
Green	Fast flashes(1s gap)	Normal
	Slow flashes(3s gap)	Communication fault
	Slow flashes(5s gap)	PV input fault
Red	Light on	Ground fault
	Fast flashes(1s gap)	Fault
	Fast flashes(1s gap)	AC fault

Contents

01 Program Overview

02 Installation Preparation

03 Device Installation









04 App Configuration

1.6 Common Product List for Microinverter Systems



The following product list is included in the pre-sale kit.

Before system installation, please check if all equipment and tools are fully prepared.

NO.	Product Name	Picture	Description
1	WIFI Microinverters		Equipment for generating electricity
2	DC Extension Cable		Extending the connection distance between microinverters and photovoltaic modules
3	T-junction Bus End Plug		Protecting unused bus connection ports on AC bus connectors at the end of AC branches
4	T-junction Branch Port Protection Cover		Protecting unused branch connection ports on AC bus connectors
5	T-junction Removal Tool		Removing the upper cover of the AC bus connector for loading, unloading, or replacing the AC bus cable
6	T-junction Bus Connector		Connecting the AC output of the microinverter to the AC bus
7	DC Connector Removal Tool		Disassembling the connection between the photovoltaic module and the input of the microinverter
8	T-junction connecting wire		It can be connected the microinverter to the distribution box for AC side convergence. The T-junction connecting wire is composed of T-junction bus connector and cables, and the spacing between the connectors on the bus is evenly distributed.

1.7 Common Product List for Microinverter Systems



The following product list **is not included** in the pre-sale kit and needs to be **purchased separately**.

Before system installation, please check if all equipment and tools are fully prepared.

NO.	Product Name	Description	Product Specification
1	Screws	Fixing Microinverter	M8*25
2	DC Extension Cable	Extending the connection distance between microinverters and photovoltaic modules	DC-EC-1m

** If the DC extension cables are included in the list, there is no need to purchase again.

1.8 Installation Preparation–Tool Installation



Installation Tool



Electric Drill



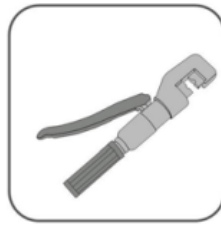
Heat Gun



Hex Key



Wire Stripper



Hydraulic Pliers



Crimping Tool



Screwdriver



Marker Pen



Utility Knife



Multimeter

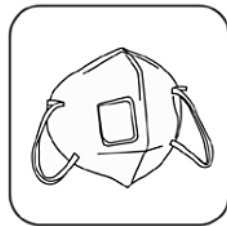


Tape Measure



Hammer

Protect Tool



Protective Mask



Safety Glasses



Insulated Safety Shoes



Insulating Gloves

Contents

01 Program Overview

02 Installation Preparation

03 Device Installation

04 App Configuration

Device Installation- Product Unboxing Inspection

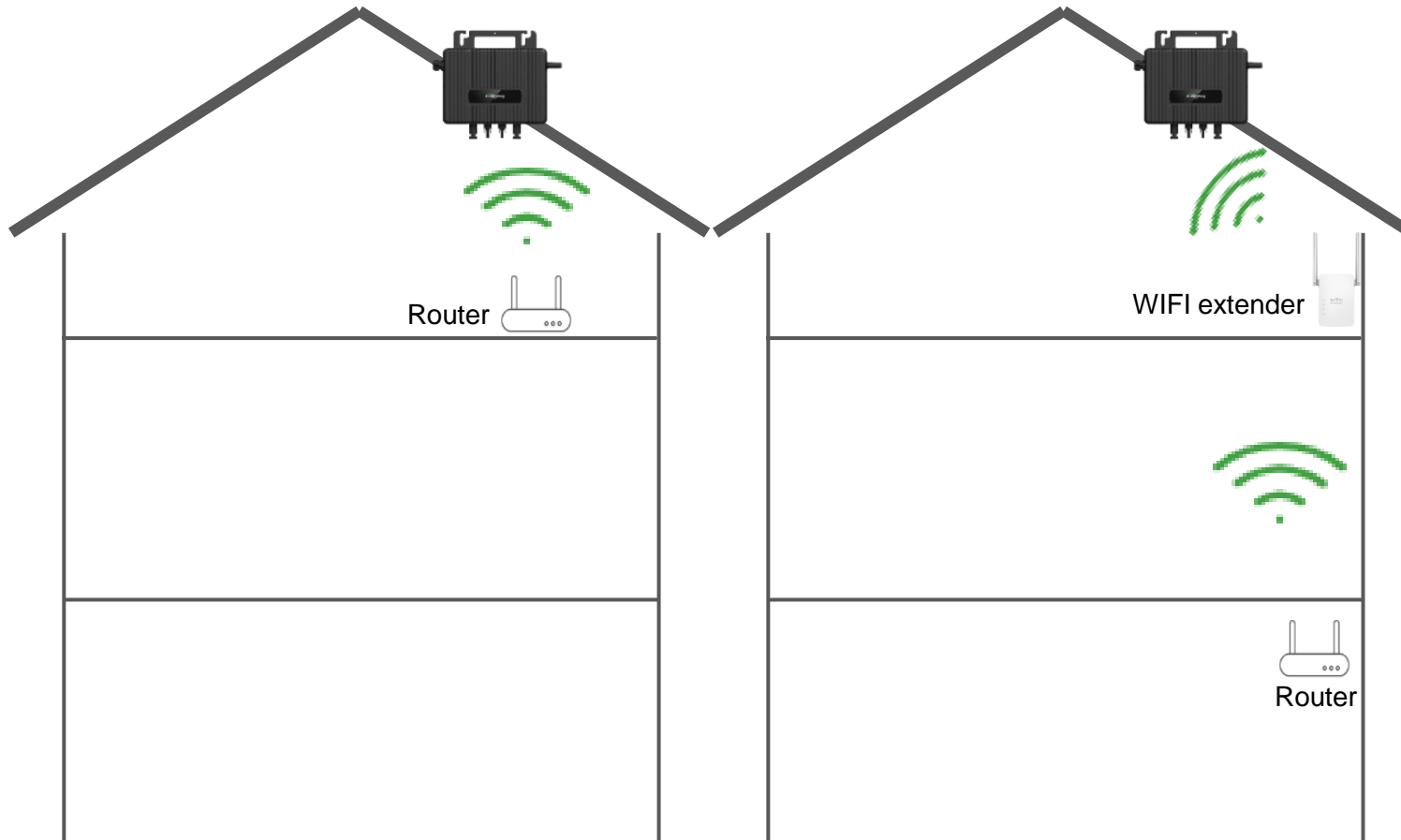
Inverter Unboxing Inspection:

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

No.	Name
1	AC Branch Connector
2	DC Terminal
3	Antenna



Device Installation- Network Inspection



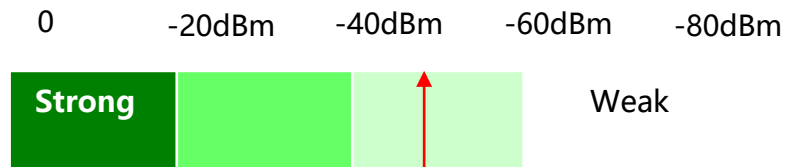
Before installation, the installer should visit the site at least once for inspection.

1. Communicate with the end user and place the router on the top floor.
2. If the router cannot be placed on the **top floor** due to objective reasons, it is best to adjust the router on the first floor to a position as close to the roof as possible, and then place a **Wi-Fi extender** on the top floor.

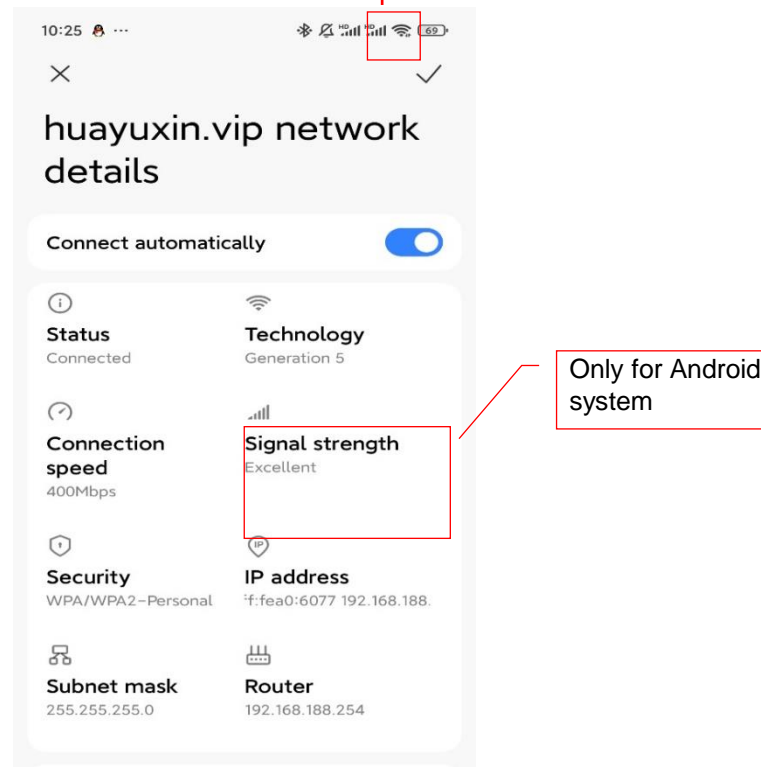
Device Installation-Network Inspection



- The installer use a professional signal detection tool to check the signal strength of the router or Wi-Fi extender at the installation location of the Wi-Fi microinverters. **Recommended signal value: 0 to -50 dBm**



Note: Please adjust the position or network to make sure the signal strength is above -50 dBm for proper use and maintenance.



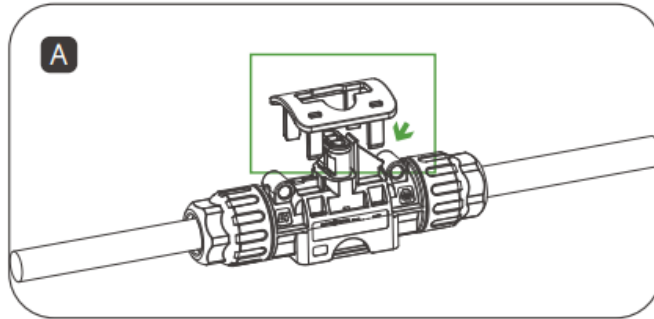
- Alternative solution:** if a signal detection tool is unavailable: Go to the Wi-Fi settings on a smartphone and check the signal strength based on text or icons.

Device Installation-T junction

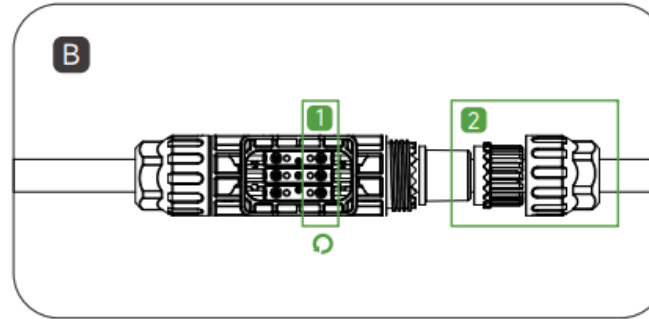


Step 1: Prepare several sections of T-junction connecting wires according to the number of Microinverters to be installed on site.

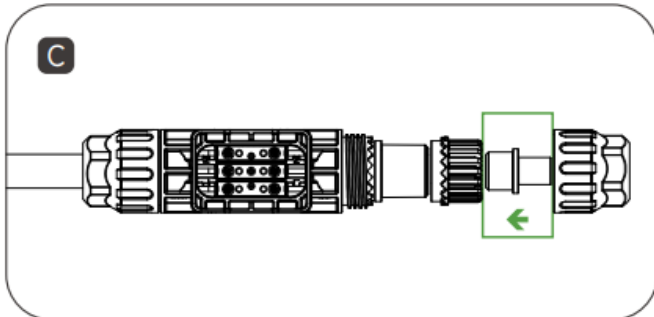
Step 2: Removing the T-junction cable at the end.



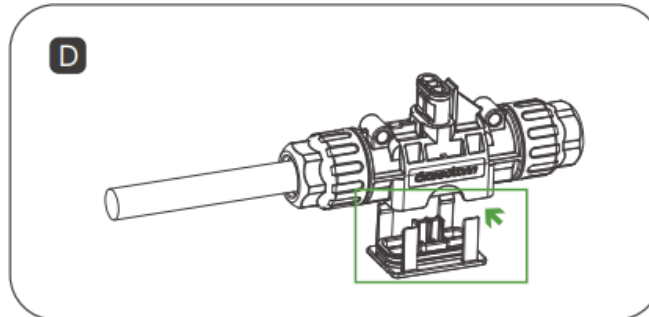
Use the T-junction removal tool to remove the lower cover.



Loosen the inner screw, unscrew the nut, and remove the cable.



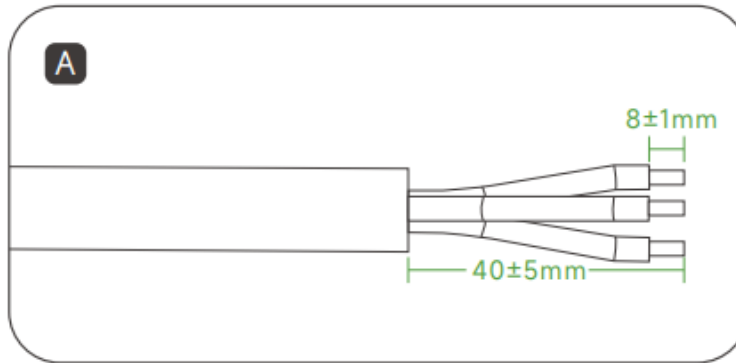
Install a T-junction bus end plug at the end of the T-junction.



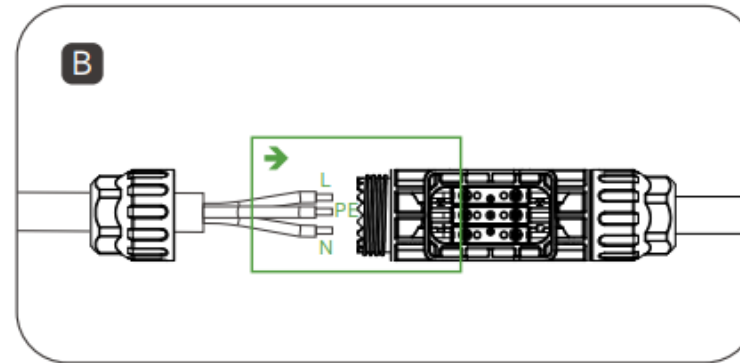
Insert the lower T-junction cover back into place and make sure it is secure.

Device Installation-T junction

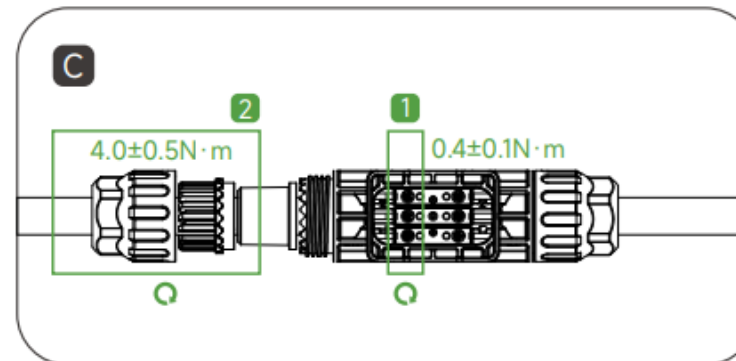
Step 3: T-junction and bus connection



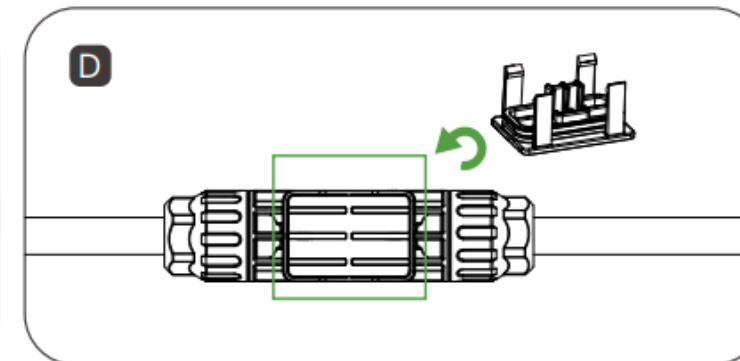
Prepare the AC cable by stripping the ends



Insert the AC cable into the T-junction connector at the correct hole position.

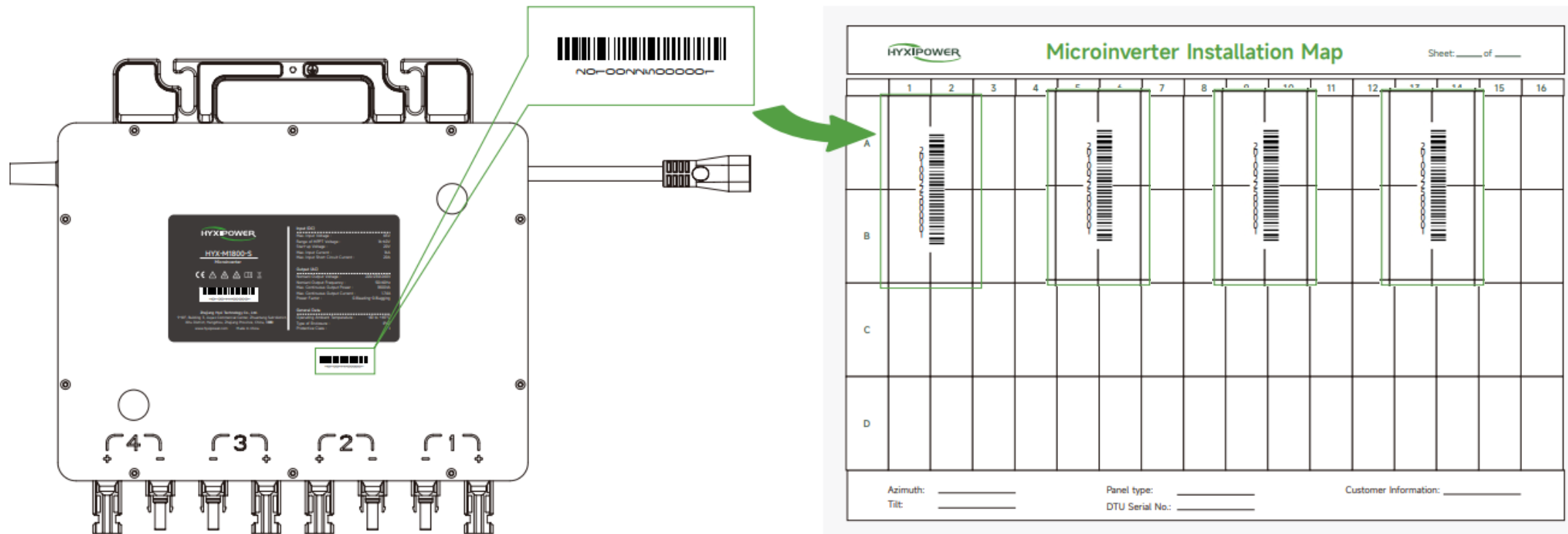


Tighten the screws, and then the nuts.



Insert the lower T-junction cover back into place, making sure it is secure.

Device Installation-Draw Installation Map



Installation Map of Microinverters

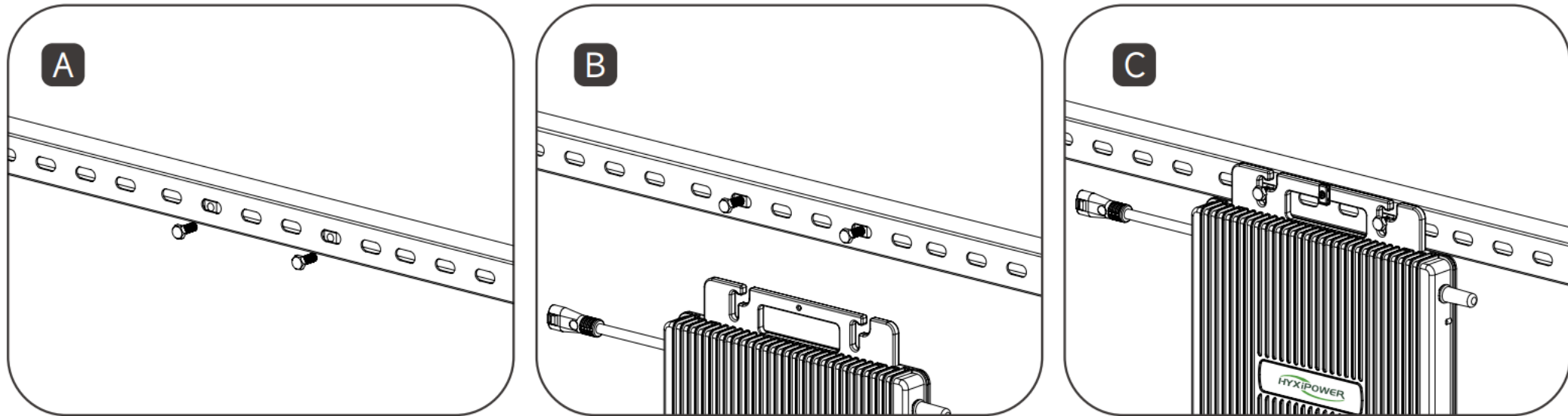
Step1: Record the location of the Microinverters to facilitate operation and maintenance

Step2: Facilitate the establishment of connection between DMU and microinverters

Device Installation- Microinverter

Step 1: Mark the installation position of the Microinverter on the bracket according to the layout of the photovoltaic modules.

Step 2: Fix the Microinverter on the bracket with M8*25mm screw, then lock the screw.

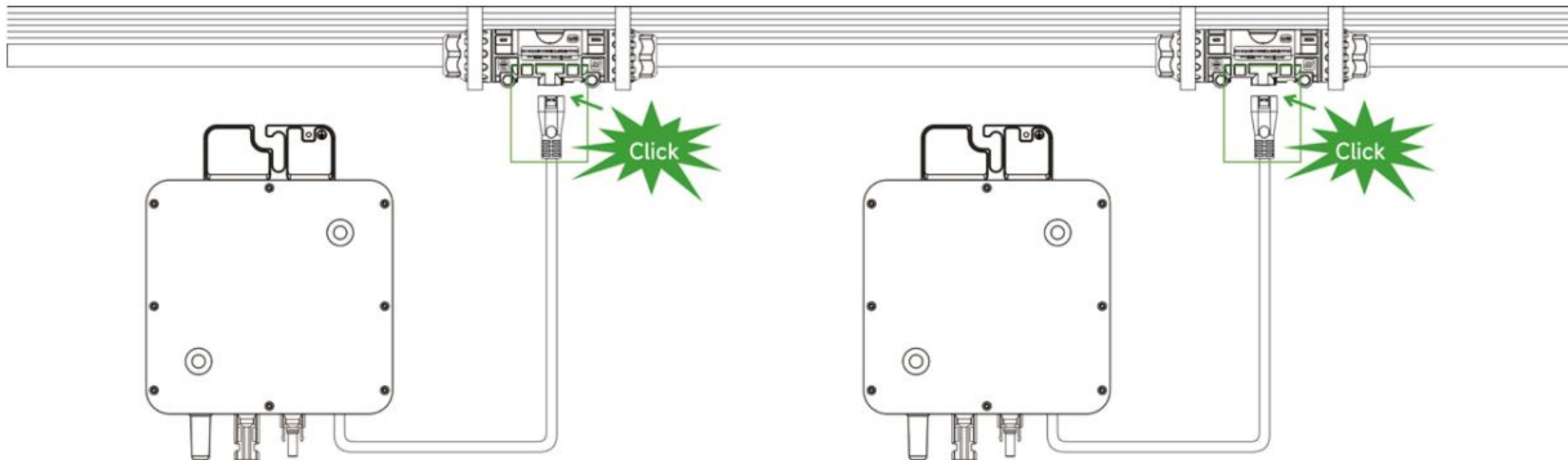


Device Installation-Connect Microinverter with T-junction



Insert the output AC connector of the microinverter into the T-junction bus connector until hearing a 'click' sound.

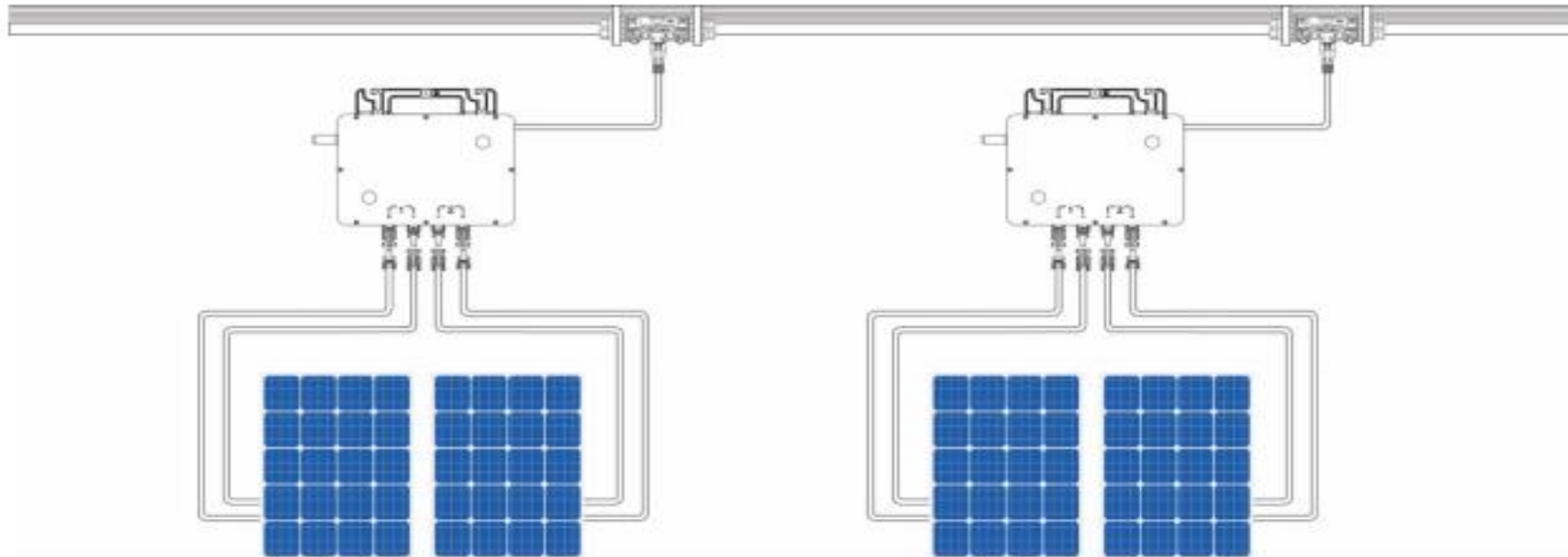
Ensure that the installation is tight.



Device Installation-Connect PV module

Step 1: Install the PV module above the microinverter.

Step 2: Connect the DC output cable of the PV module with the input side of the microinverter.



Key Point 1: Microinverter installation completion indicator: Green indicator light on the microinverter flashes slowly (1 second).

Contents

01 Program Overview

02 Installation Preparation

03 Device Installation

04 App Configuration

APP Configuration- Registration



Registration

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

Near-end Commissioning

1. Connect the phone to microinverters
 2. Connect microinverters to Internet
-

Create a Plant

Create a plant for users

Check Signal Strength

Check signal strength between microinverters and router

APP Configuration- Registration



The entire process requires 2 email accounts: **Organization** and **Owner**.

Step 1: 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 2 : According to the country or region, select **server**, select **organization** , fill in the relevant information and **register**.

Language

HYXiPOWER

hyxipower01@bccto.cc

Password

Forgot Password? Register Now

I agree to the Terms of Use and I have read the Privacy Policy

Login

Device Installation Demo Site

Select Role

Please select the relevant server for your area

Select Your Server European Server

If Your Role Is An Installer Or A Distributor, Please Register For The Following Role.

Register as Organization Installer or Distributor

Register as Owner Plant Owner

If You Have Only Installed A Balcony Photovoltaic System, Please Register The Following Roles.

Registered Balcony System Homeowner Balcony System Owner

Register as Organization

Note: If your organization or company has registered for an organization account in this system, you do not need to register again. Please contact your administrator to add you to the member list

Organization/Company Name Please Enter

Registration Method

Please Enter @hotmail.com

Please Enter Send

Complete Info

Password Please Enter

Confirm Password Please Enter

Register

I agree to the Terms of Use and I have read the Privacy Policy

APP Configuration- Near-end Commissioning



Registration

1. Download HYXipower APP
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APP Configuration- Connect Phone to Microinverters



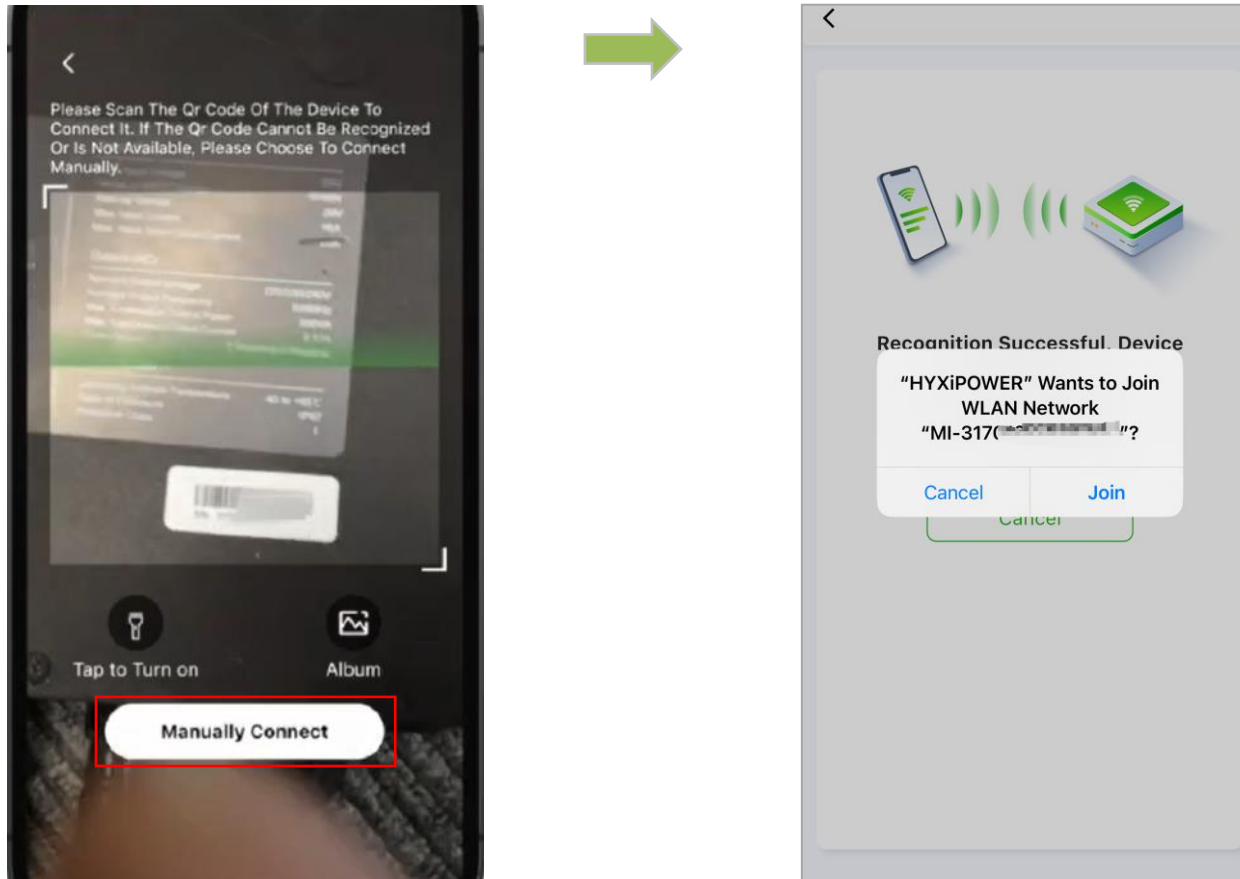
Step 1: If a version update is prompted, please update first before proceeding with debugging. Select “Device installation” and “Download.” If the latest firmware package is already available on the phone, the download step will be skipped automatically.



APP Configuration- Connect Phone to Microinverters



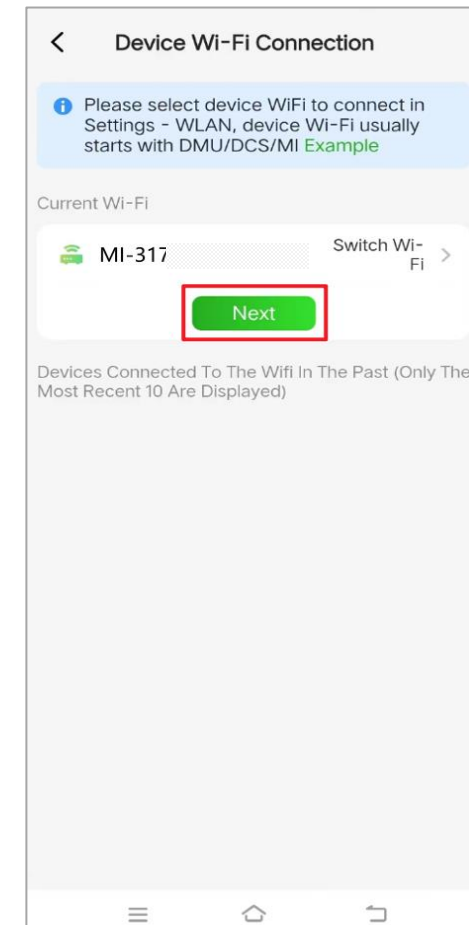
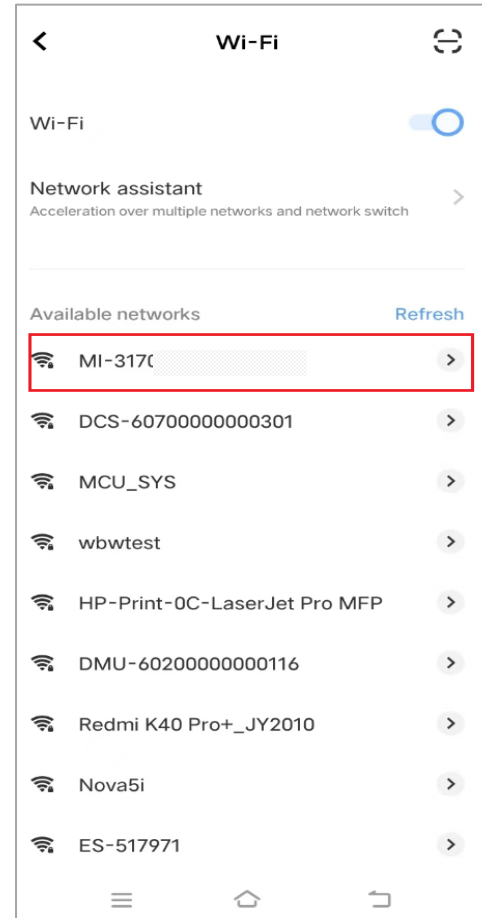
Step 2: Scan the barcode of the microinverters, join WLAN network MI-XXXXXXXXXXXX. (If the barcode cannot be recognized, You can also choose to **connect manually.**)



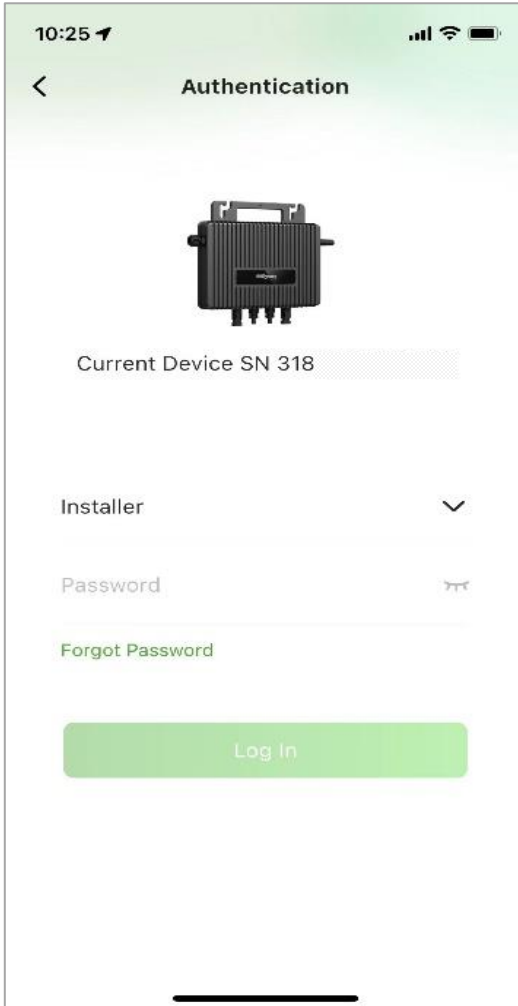
APP Configuration- Connect Phone to Microinverters



Manually connection: Find the WIFI in settings of phone and connect: MI-XXXXXXXXXXXXX;
Password is **hyxi0607**, after connected, return to the "Hyxipower" APP and select **Next**.



APP Configuration- Connect Phone to Microinverters



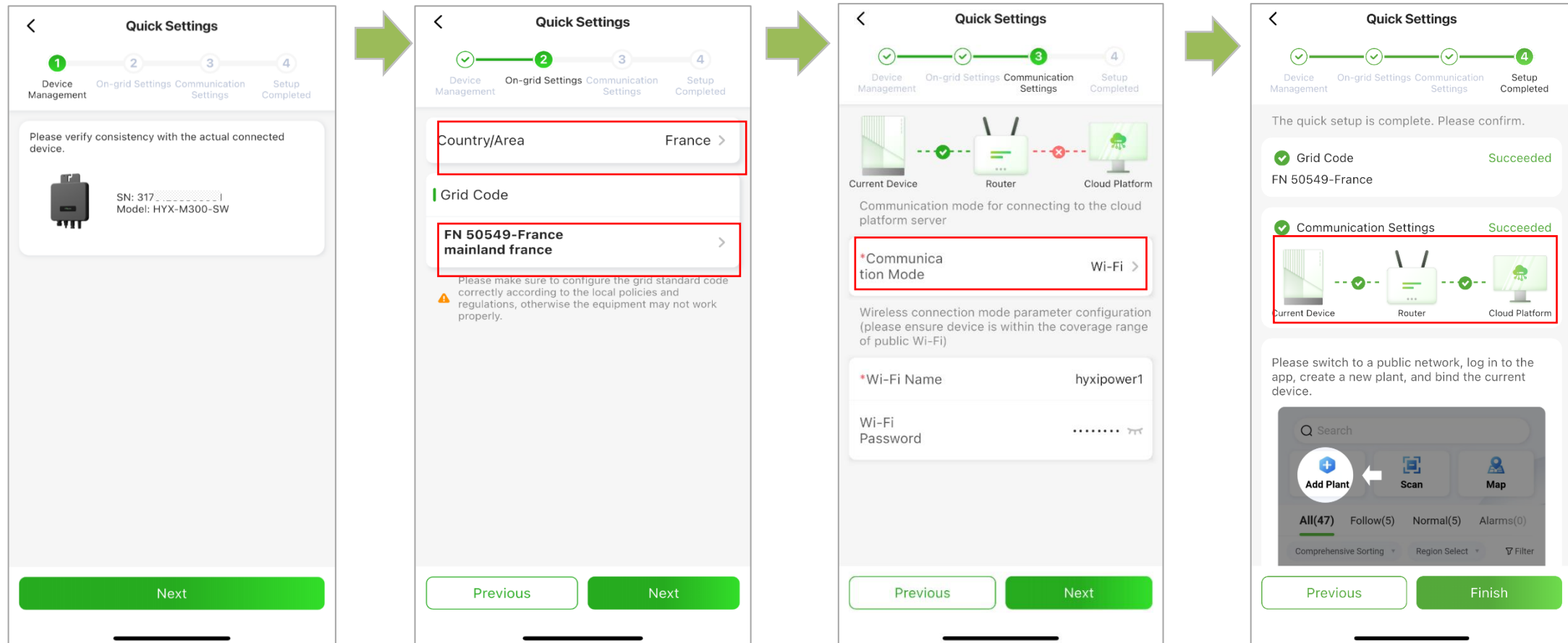
Step 3: Select **Installer**, enter the device default password: hyxi0607, and then log in.

If incorrect, click **Forgot Password** and send the verification email to Hyxipower support email (support@hyxipower.com) to help reset the password.

APP Configuration- Connect Microinverters to Internet



Step 4: Quick settings: Select the **Country/Area** and the corresponding **Grid Code**, and then select the **communication mode** and the router **WIFI information**.



Key Point 2: The end signal for microinverter networking is when the local app shows a successful connection to both the router and the cloud platform.

APP Configuration- Connect Microinverters to Internet



Step5: Network configuration for the microinverters in the power plant one by one.

Microinverter Installation Map

Sheet: ____ of ____

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A																
B																
C																
D																

Azimuth: _____
Tilt: _____

Panel type: _____
DTU Serial No.: _____

Customer Information: _____

APP Configuration- Create a Plant



Registration

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-

Near-end Commissioning

1. Connect the phone to Microinverters
 2. Connect Microinverters to Internet
-

Create a Plant

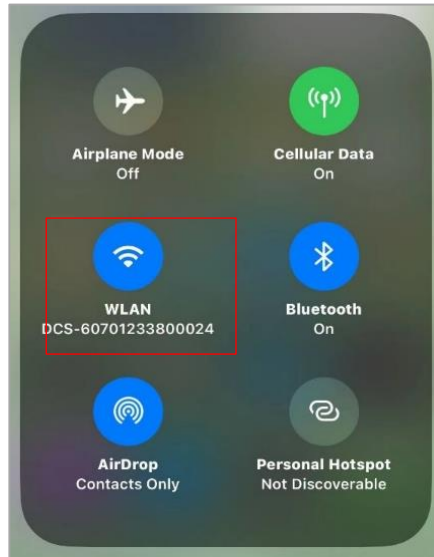
Create a plant for users

Check Signal Strength

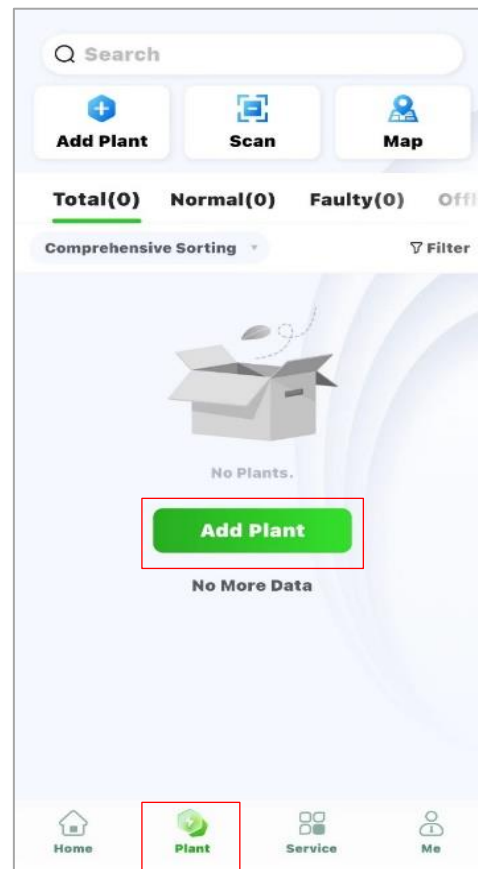
Check signal strength between microinverters and router

APP configuration- Create a Plant

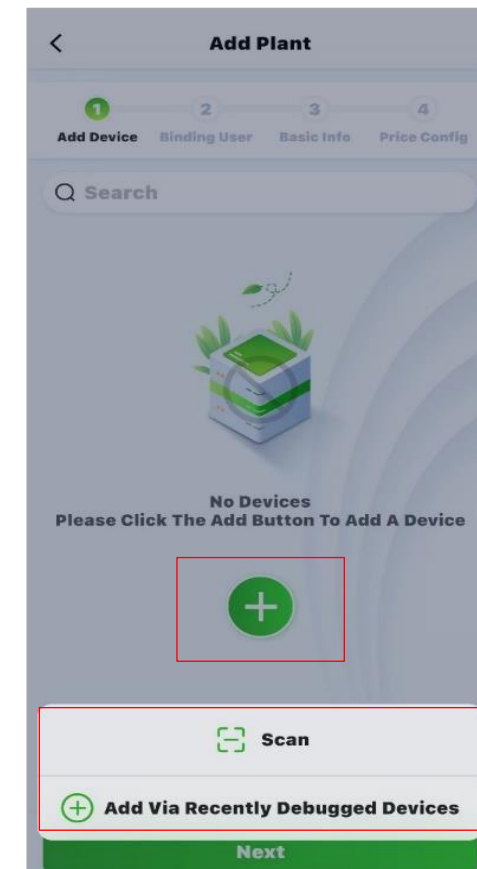
Step 1: Disconnect the phone from the DMU's WiFi. Make sure your phone has Internet access



Step 2: Log in to the **organization account**, click **"Add Plant"**



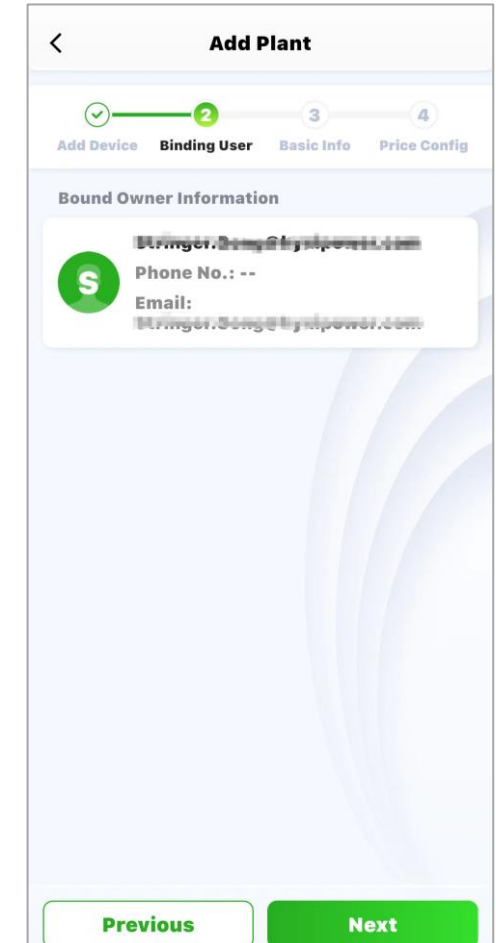
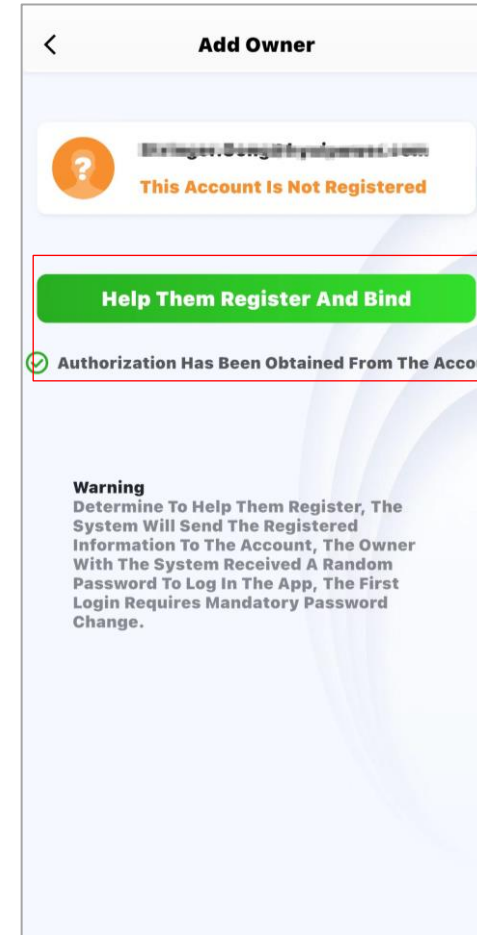
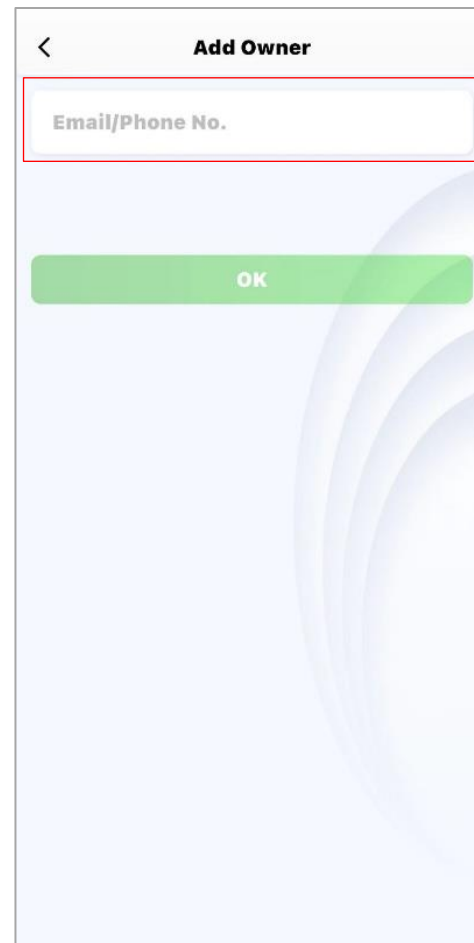
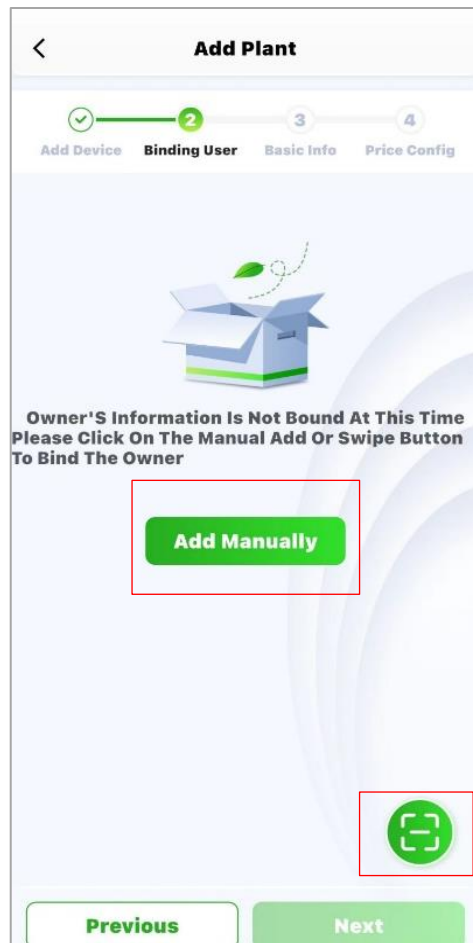
Step 3: Scan the QR code of the DCS or add it through **Recently Debugging Device**



APP configuration- Create a Plant



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



APP configuration- Create a Plant

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

The image displays three sequential screenshots of the 'Add Plant' application interface, connected by green arrows indicating the flow of the configuration process.

Screenshot 1: Add Plant - Basic Info

The interface shows a progress bar at the top with four steps: Add Device, Binding User, Basic Info (current step), and Price Config. The 'Basic Info' section includes the following fields:

- *Plant Name: recoderag@163.com20 24-04-10
- *Plant Type: Household Use >
- Region: 中国浙江省杭州市滨江区
- Plant Address: 浙江省杭州市滨江区长河街道滨兴路1399号-大华股份(总部)
- *Time Zone: (UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi >

A red box highlights the 'More Info' button at the bottom of the form.

Screenshot 2: Plant Type

The interface prompts the user to 'Please select the correct power station type'. Three options are available:

- ☒ **Household Use**
For small and medium-sized projects, typically under 100 kW, dominated by microinverters, residential energy storage, and string systems
- ☐ **Industry and Commerce**
For large-scale commercial and industrial projects, typically under 100 kW, dominated by high-capacity household energy storage and high-capacity string systems
- ☐ **Energy Storage**
For projects dominated by commercial and industrial energy storage cabinets, typically over 100 kW

Screenshot 3: Add Plant - Basic Info

The interface shows the 'Basic Info' section with the following fields:

- Photovoltaic installed capacity: Please Enter kWp
- Number of Strings: Please Enter
- Grid Connection Type: Feed All to Grid >
- Contribution Type: Full Payment by Owner >
- Contact Phone No: Please Enter
- Remarks: Please Enter
- Plant Image: Upload

A red box highlights the 'Photovoltaic installed capacity' field.

APP configuration- Create a Plant

Step 6: Fill in Electricity Price Type, Currency and Revenue per KWh, select Finish, and the Plant is successfully created.

The image shows two screenshots of the HYXiPOWER app interface, connected by a green arrow pointing from left to right.

Left Screenshot: 'Add Plant' - Price Config Step

The top bar shows a progress indicator with four steps: 'Add Device', 'Bind User', 'Basic Info', and 'Price Config' (the current step, marked with a green circle and the number 4). Below the progress bar is a note: "Note: Changes to electricity price types, currency units, prices, etc., will take effect immediately. However, the revenue calculation rules for the corresponding plants will take effect the next day."

The main content area contains three input fields:

- Electricity Price Type:** Set to "Fixed Electricity Price" with a right arrow.
- Currency:** Set to "CNY" with a right arrow.
- Revenue Per kWh:** A text input field with the placeholder "Please Enter".

At the bottom, there are two buttons: "Previous" and "Finish" (highlighted with a red border).

Right Screenshot: Plant List

The top bar shows a search bar and three icons: "Add Plant", "Scan", and "Map". Below the icons are statistics: "Total(1)", "Normal(0)", "Faulty(0)", and "Offline(0)".

Below the statistics is a "Comprehensive Sorting" dropdown and a "Filter" icon. The main content area shows a list of plants. The first plant is "Test Plant", which is "Offline". It displays "Real-time Power 0.00 w" and "Daily Yield 0.00 wh". Below the list, it says "No More Data".

The bottom navigation bar has four icons: "Home", "Plant" (highlighted with a green circle), "Service", and "Me".

APP Configuration- Check Signal Strength



Registration

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Near-end Commissioning

1. Connect the phone to Microinverters
 2. Connect Microinverters to Internet
-

Create a Plant

Create a plant for users

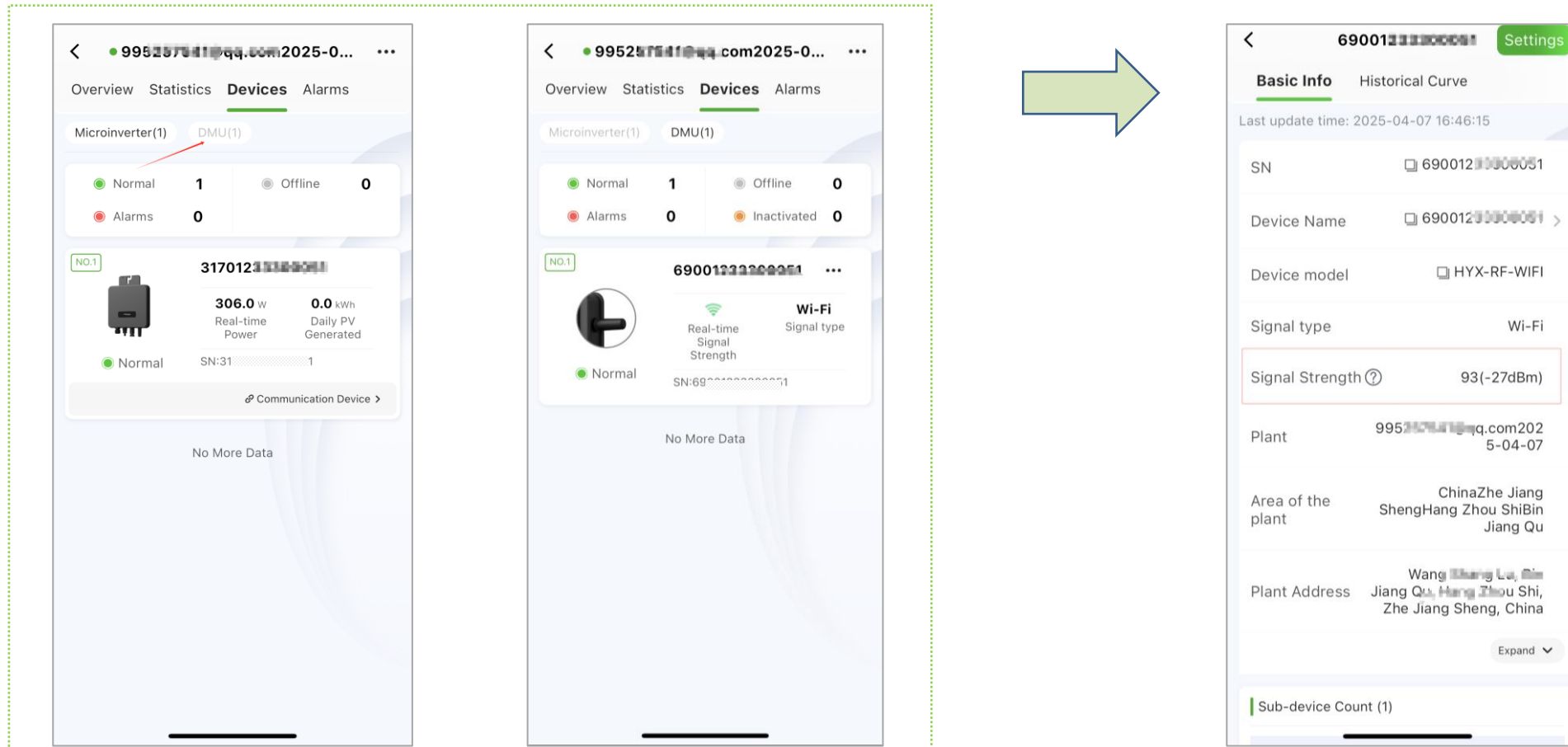
Check Signal Strength

Check signal strength between microinverters and router

APP Configuration – Check Signal Strength

Step 1: In the power plant interface, find the “Devices” – “DMU”- “Signal Strength” between the microinverter and the router.

Step 2: Adjust the position of the microinverter or the router to ensure that all devices have a signal strength above 60. Otherwise, it may lead to issues such as unstable data transmission or devices going offline.

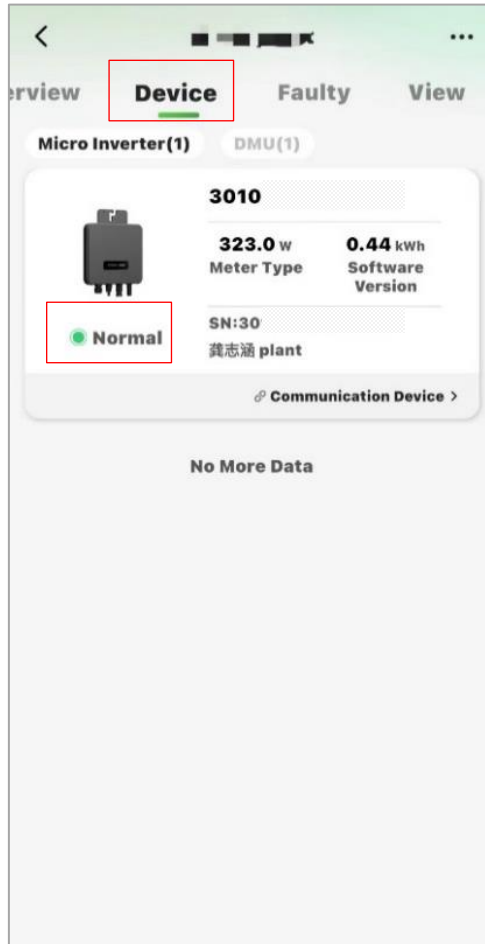


The image displays three screenshots of the HYXiPOWER mobile application interface, illustrating the steps to check signal strength.

The first two screenshots (grouped by a green dashed line) show the 'Devices' tab. The first screenshot shows the 'Microinverter(1)' and 'DMU(1)' sections. A red arrow points to the 'DMU(1)' section. The second screenshot shows the 'DMU(1)' section with a red arrow pointing to the 'Signal Strength' value.

The third screenshot shows the 'Basic Info' page for the DMU. The 'Signal Strength' is highlighted with a red box, showing a value of 93 (-27dBm).

APP Configuration -Installation Acceptance



Step 1: Select **Plant - User's Plant - Device**, and ensure that the online state of device is normal.

Step 2: After installation is completed, continuously monitor for more than half an hour, select **Statistics - Energy Analysis**, view the realtime power statistics curve, and ensure that the plant has started generating electricity normally.

Key Point 5: Normal operation indicator: AC and DC power of equipment in the power plant is normal, with no alarms.

THANKS

