HYXiPOWER

WIFI Version Microinverter Installation Guide

Zhejiang Hyxi Technology Co., Ltd.

Quality Innovation Efficiency Win-win

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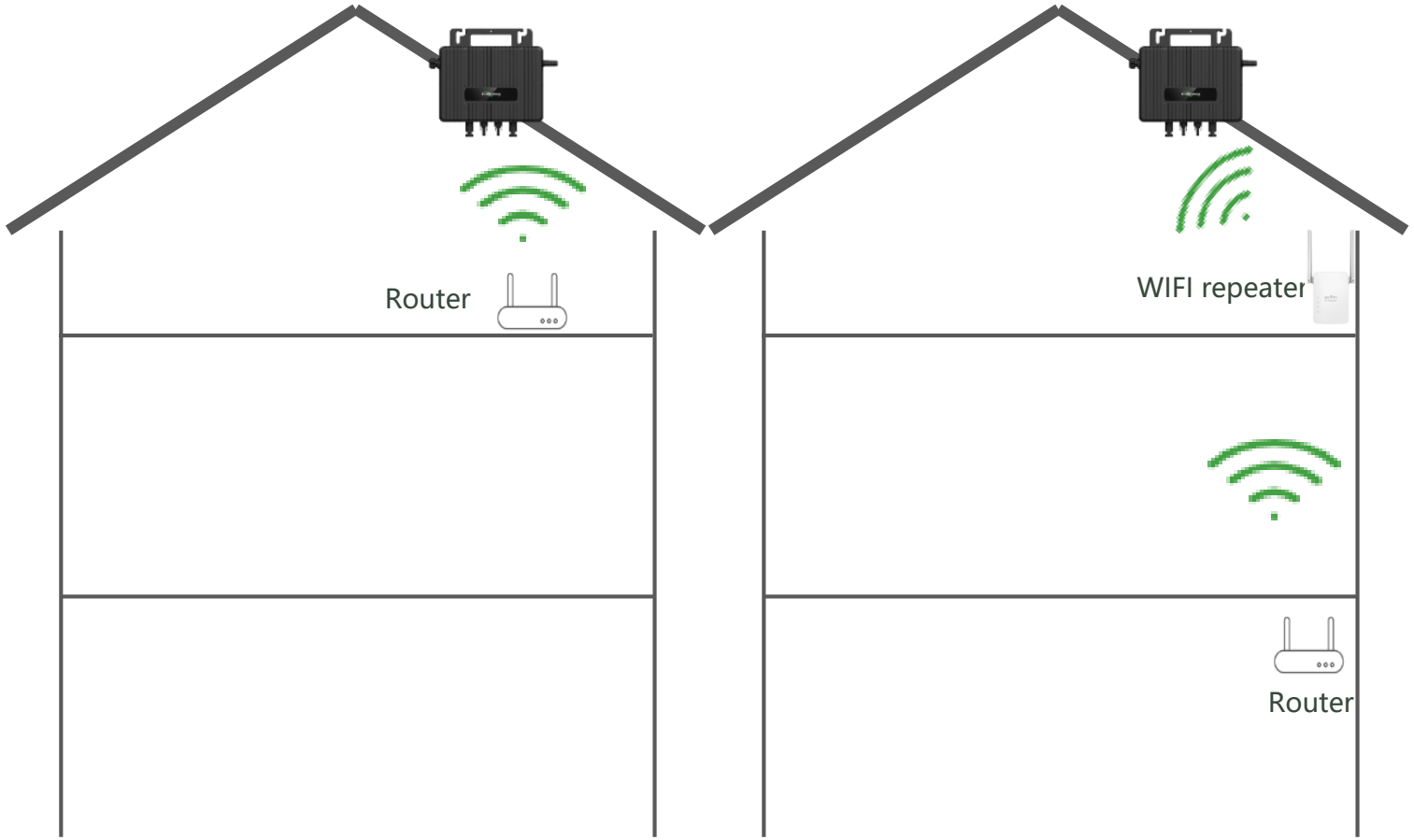
1 **Preparation**

2 Physical Installation

3 APP Configuration

Preparation-1 Network



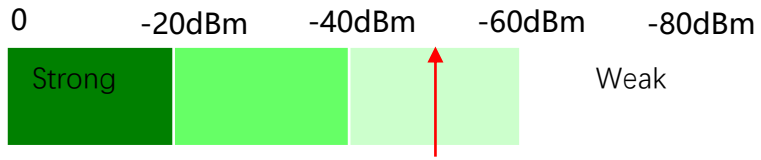
Before installation, installer should survey the site at least once.

1. Please communicate with the end user and place the router on the **top floor**.

2. If the router really can not be placed on the top floor, it’ s better to adjust the position of the router as close to the roof as possible in the first floor. And then place a **WIFI repeater(signal extender)** in the top floor.

Preparation-1 Network

Stand in the installation position of the microinverter on roof and use professional signal detection tools to check the signal values of router or WiFi repeater.



It is recommended that the value of network within 0~-50 dBm

Need to adjust the network.

After installation, when system is running ,due to the interference of cables and metal brackets, the final signal (microinverter-router) displayed in Hyxipower APP will be about **-60dBm**.

Alternative solution :

1. APP(WiFi Analyzer).

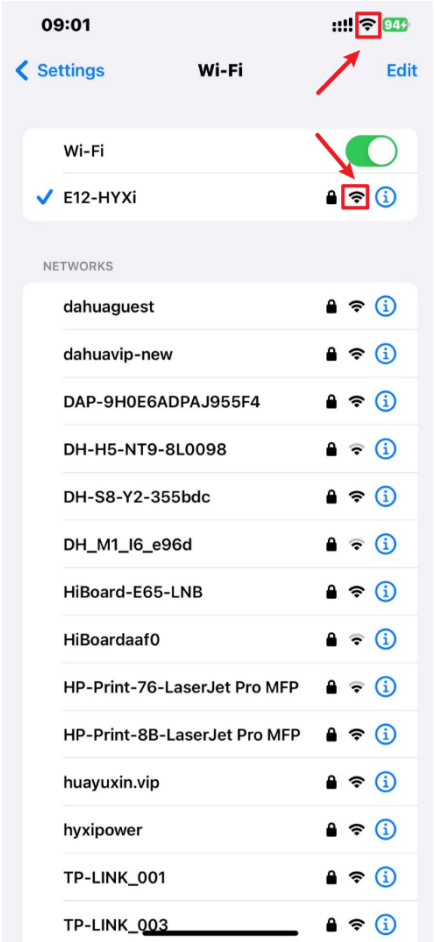
Notice :the accuracy is weaker than professional signal detection tools.

2. WiFi page of the phone.

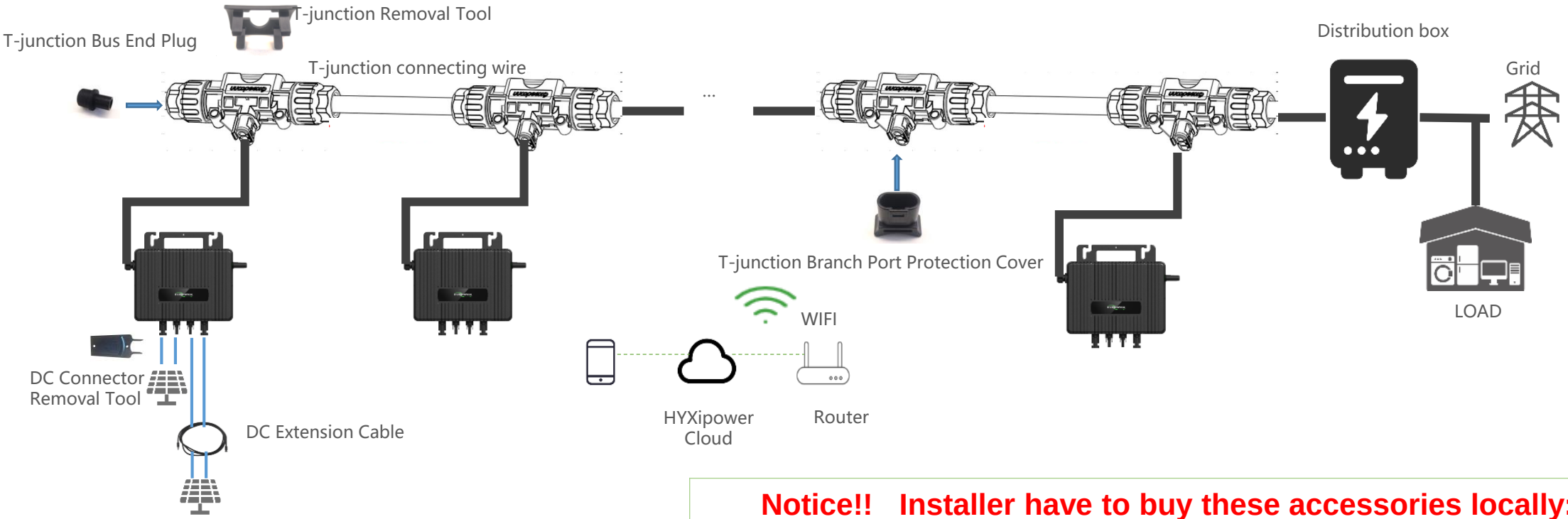
1.Google Play Store
Or Apple Store
Search "**WiFi Analyzer**"

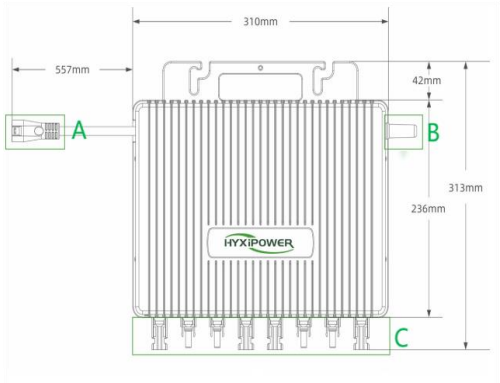
WiFi Analyzer
(open-source)

2. Signal value icon.



Preparation-2 Materials





A: AC Branch Connector
B: Antenna
C: DC teminal
Note: Appearances may vary depending on the model.

Notice!! Installer have to buy these accessories locally:

NO.	Product Name	Model	Description	Remark
1	**Screws**	M8*25	Used to fix microinverter	Buy Locally
2	**PV cable**		PV panel to Microinverters	Buy Locally or from Hyxipower
3	**Ground wire**	4~10mm²	For equipment grounding	Buy Locally

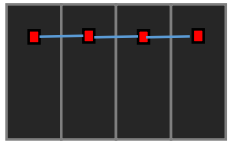
Preparation-2 Materials by Hyxipower

Product material list				
No.	Product Name	Picture	Model	Description
1	**DC Extension Cable**		DC-EC-1m	1 DC male+1 cable (1m)+1 DC female Used to extend the connection distance between micro inverters and photovoltaic modules
2	**T-junction Bus End Plug**		T-JB-EP	Used to protect unused bus connection ports on AC bus connectors at the end of AC branches
3	**T-junction Branch Port Protection Cover**		T-JB-PPC	Used to protect unused branch connection ports on AC bus connectors
4	**T-junction Removal Tool**		T-JB-RET	Used to remove the upper cover of the AC bus connector for loading, unloading, or replacing the AC bus cable
5	**T-junction Bus Connector**		T-JB-Con	One T-junction Bus Connector(without cable) The AC bus connector is used to connect the AC output of the micro inverter to the AC bus
6	**DC Connector Removal Tool**		DC-Con-RET	Used to disassemble the connection between the photovoltaic module and the input of the micro inverter
7	**T-junction connecting wire**		TJ-Cable-20T-19L-10AWG-1.6m; TJ-Cable-13T-12L-10AWG-3m; TJ-Cable-7T-6L-10AWG-5.7m	20 T-junction，19 cables (1.6m/3m/5.7m long, **10AWG**, brown blue insulation layer), **32A** max for the use. It can be used to connect the micro inverter to the distribution box for AC side convergence.

Preparation-3 Junction Connecting Wire

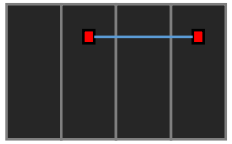
Single-row vertical installation

1-in-1 <1.6m



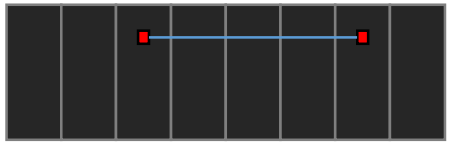
TJ-Cable-20T-19L-10AWG-1.6m-NA

2-in-1 <3m



TJ-Cable-13T-12L-10AWG-3m-NA

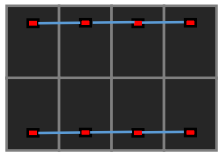
4-in-1 <3m



TJ-Cable-7T-6L-10AWG-5.7m-NA

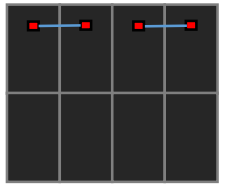
Double-row vertical installation

1-in-1 <1.6m



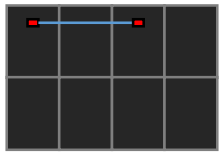
TJ-Cable-20T-19L-10AWG-1.6m-NA

2-in-1 <1.6m



TJ-Cable-20T-19L-10AWG-1.6m-NA

4-in-1 <3m



TJ-Cable-13T-12L-10AWG-3m-NA

Microinverter photovoltaic panel AC wire

Preparation-3 Junction Connecting Wire

Single-row horizontal installation

1-in-1 <3m

TJ-Cable-13T-12L-10AWG-3m-NA

2-in-1 <5.7m

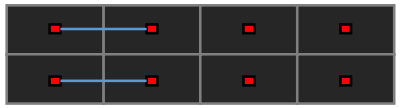
TJ-Cable-7T-6L-10AWG-5.7m-NA

4-in-1 <11m

TJ-Cable-7T-6L-10AWG-5.7m-NA

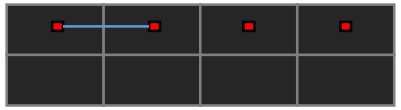
Double-row horizontal installation

1-in-1 <3m



TJ-Cable-13T-12L-10AWG-3m-NA

2-in-1 <3m



TJ-Cable-13T-12L-10AWG-3m-NA

4-in-1 <5.7m

TJ-Cable-7T-6L-10AWG-5.7m-NA

Microinverter

photovoltaic panel

AC wire

Preparation-4 Tools

Please prepare professional electrician tools in advance


Wire stripper


Wire nippers


Screwdriver


Multimeter


Marker


Cable tie


Dust mask


Goggles


Safety shoes


Safety gloves


Tape measure


Hexagon wrench

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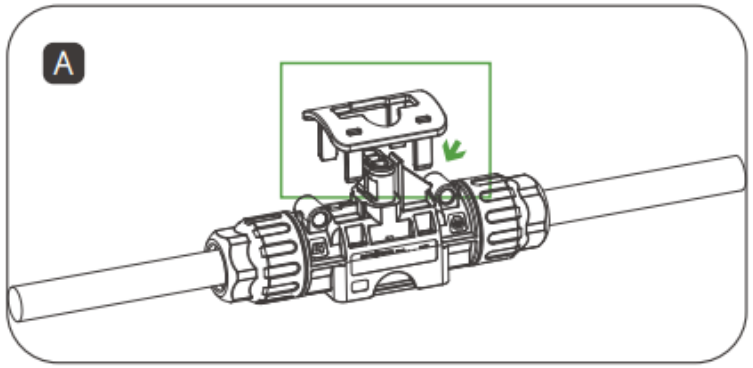
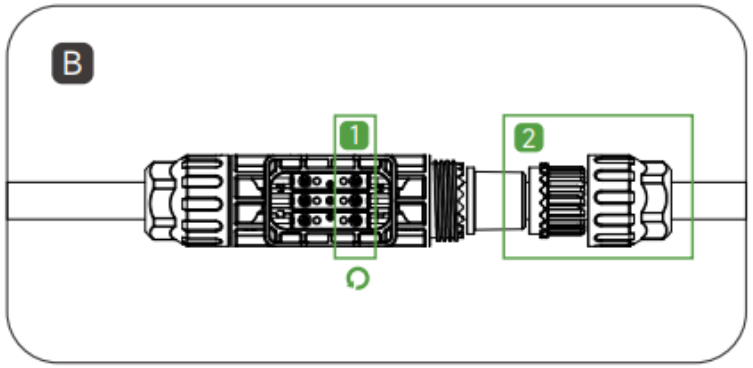
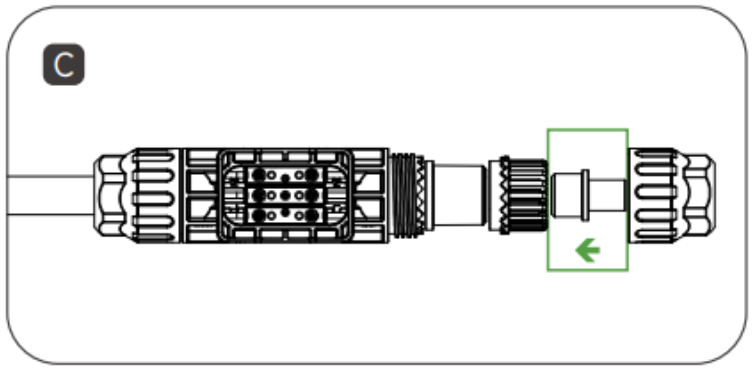
Physical Installation-1 T-Junction Bus End Plug



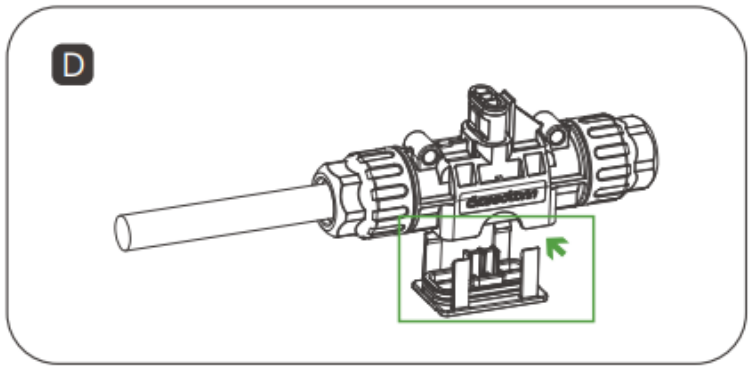
Use the T-junction removal tool to remove the lower cover.



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



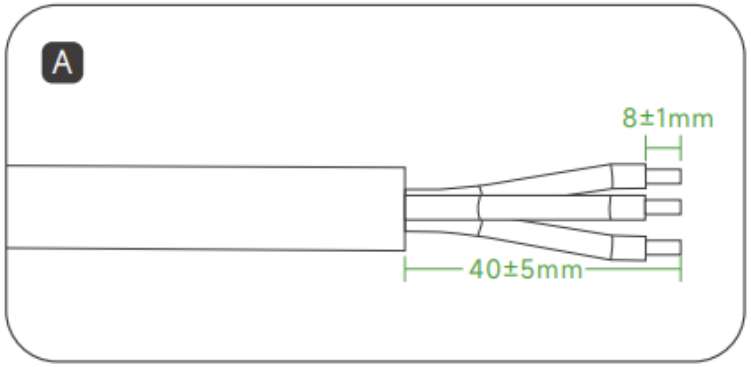
Install a T-junction bus end plug at the end of the T-junction.



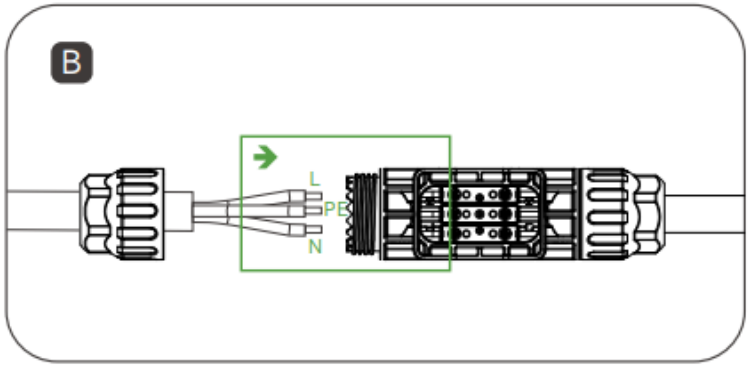
Insert the lower T-junction cover back into place and make sure it is secure.

The meaning of this step is to install the two end plugs of the micro inverter grid connection wire.

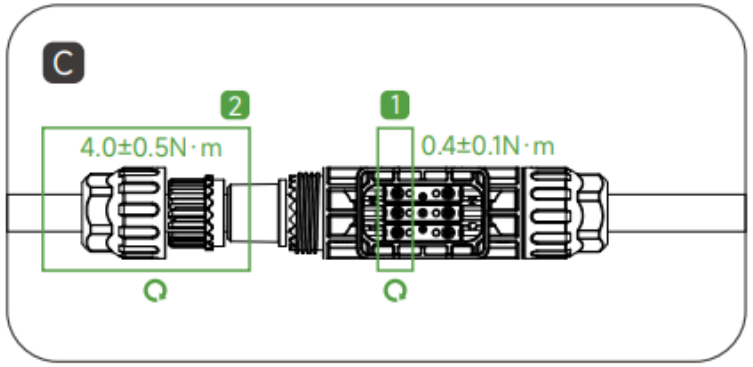
Physical Installation-2 T-Junction Bus Connector



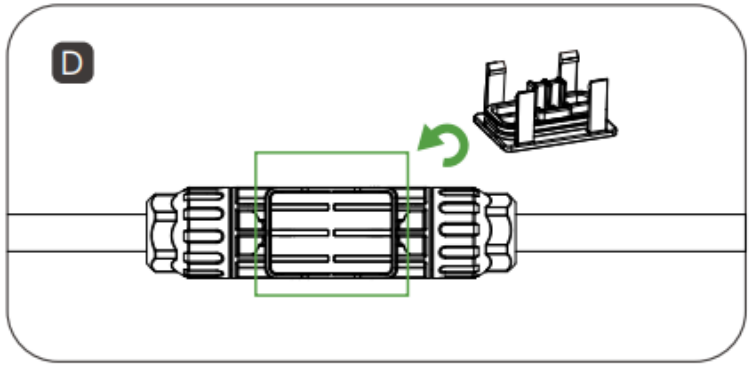
Prepare the AC cable by stripping the ends.



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



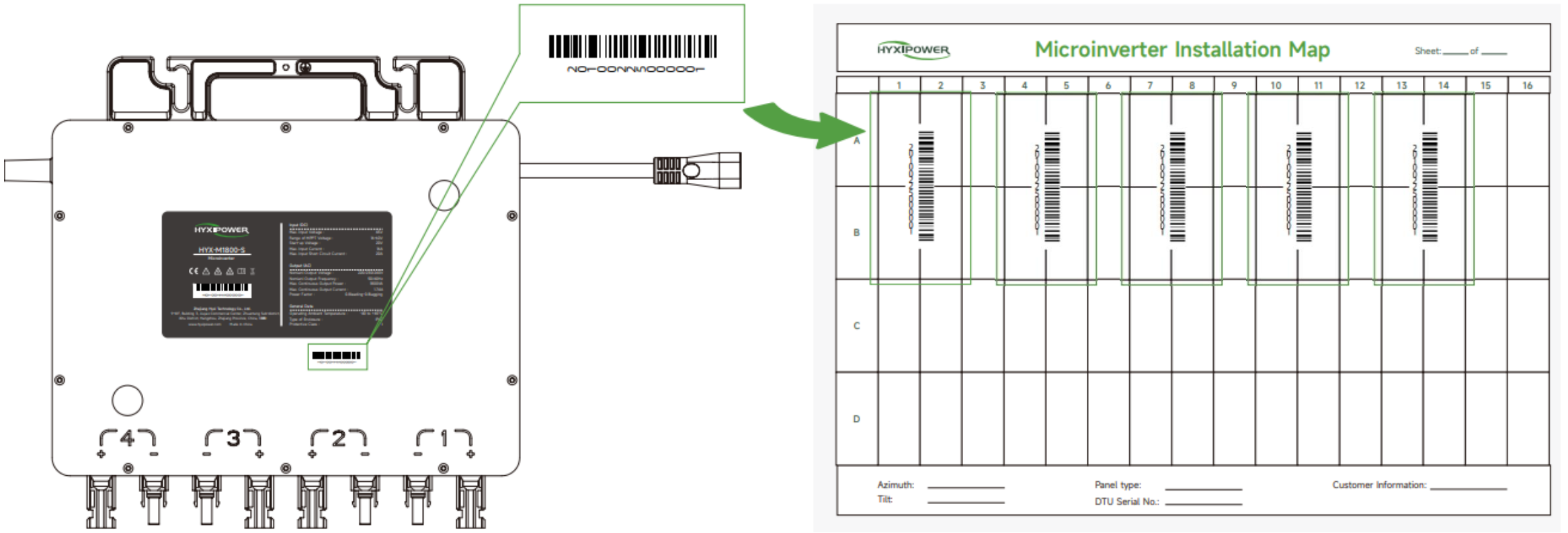
Tighten the screws, and then the nuts.



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

The meaning of this step is to install the connector in the micro inverter grid connection wire.

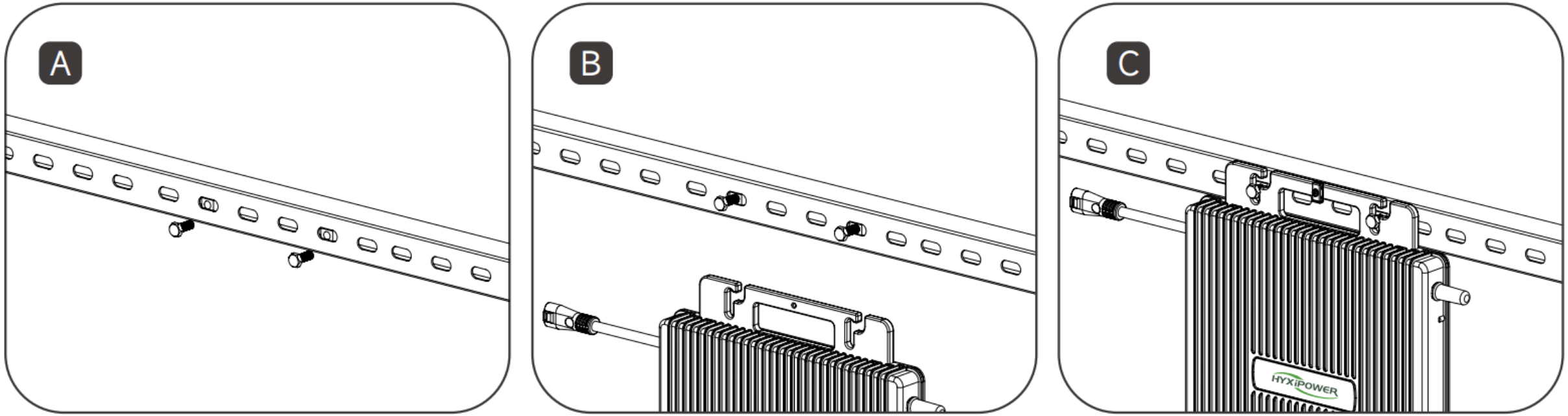
Physical Installation-3 Draw Installation Map



Tear off the serial number label of microinverter then paste on the corresponding position.
Then it can quickly find the corresponding photovoltaic panel and inverter, and can be easily used to make intelligent Layout of photovoltaic panels.

Note: Please tear off the label paper before fixing the microinverter to avoid problems that are difficult to tear off after fixing the device.

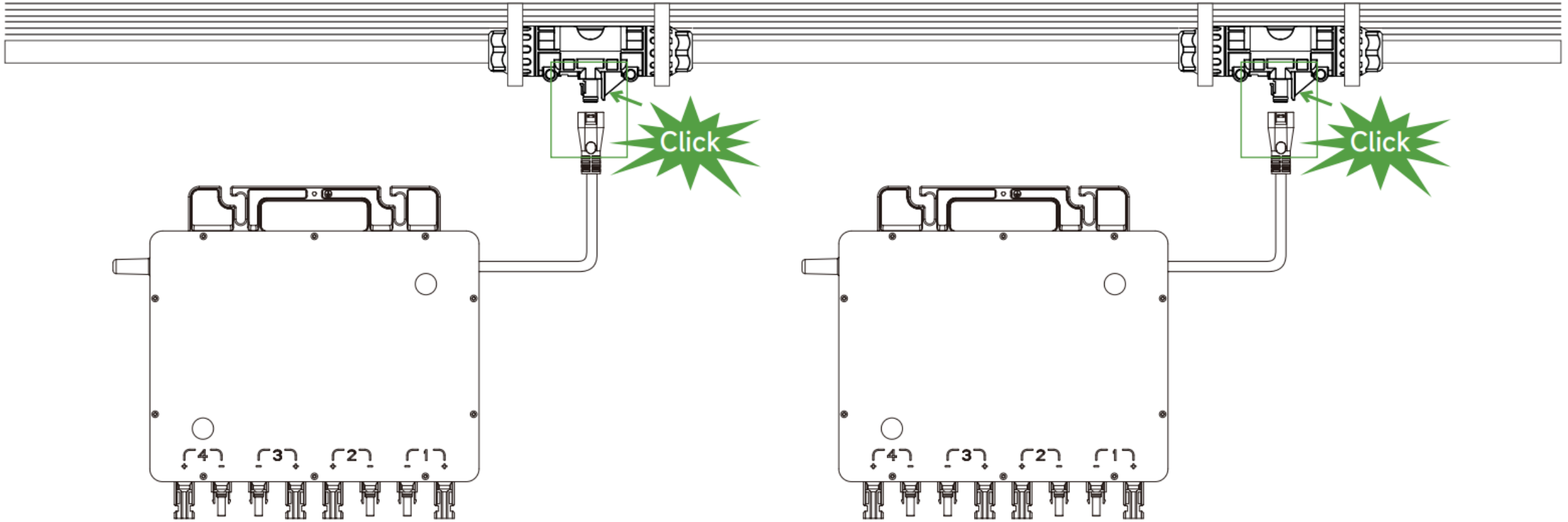
Physical Installation-4 Microinverter Installation



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

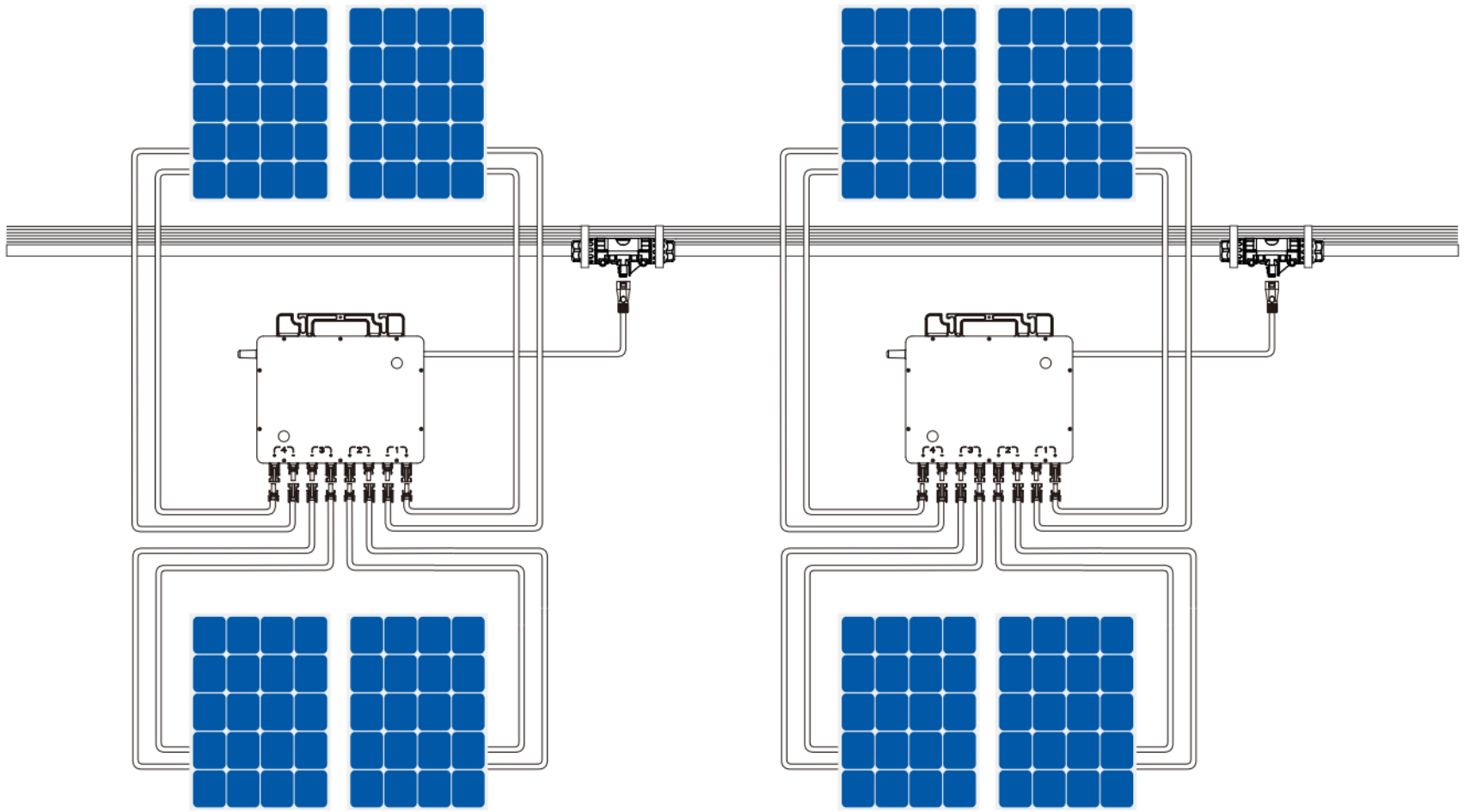
Step 2: Fix the microinverter on the bracket with M8*25mm screw, then lock the screw.

Physical Installation-5 Connect Microinverter



Insert the output AC feeder connector of the microinverter into the T-junction bus connector until hearing a "click" sound. Ensure that the installation is tight.

Physical Installation-6 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.

Physical installation-7 Power on

Light	Status	Description
Green	Fast flashes（1s gap）	Normal
	Slow Flashes（3s gap）	Communication error
	Slow Flashes（3s gap）	PV input error
Light	**Status**	**Description**
Red	Light on	Ground error
	Fast flashes(1s gap)	Error
	Fast flashes(2s gap)	AC error

Step 1： Close the main grid circuit breaker.
Step 2： Close the AC circuit breaker of each microinverter branch.
Step 3： The green lights blinks briefly indicates startup success.

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2 Physical Installation

3 **APP Configuration**

APP Configuration

Download and Registration

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

Near-end Configuration

Register the WiFi micoinverter to the cloud server through Configuration.
All HYXiPOWER's equipment is managed by the cloud platform. After the equipment is registered to the cloud server, it can be managed uniformly through the cloud platform.

Creat Plant for Users

Create a plant for users
Manage the equipment through the Plant and check the equipment status, system power generation and usage, etc.

Check Signal Strength

Check the signal strength of the microinverter after the configuration.
Ensure that microinverter, software and mobile data transmission are normal.

APP Configuration-1 Download and Registration

The entire installation process requires 2 email accounts: Organization & Owner.

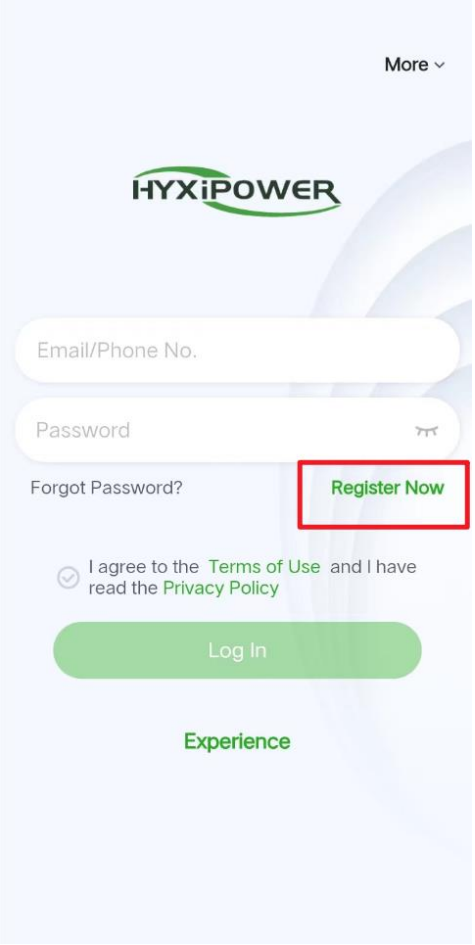
Step1: Organization account :**Register Now**.

App Store
Search “HYXipower”

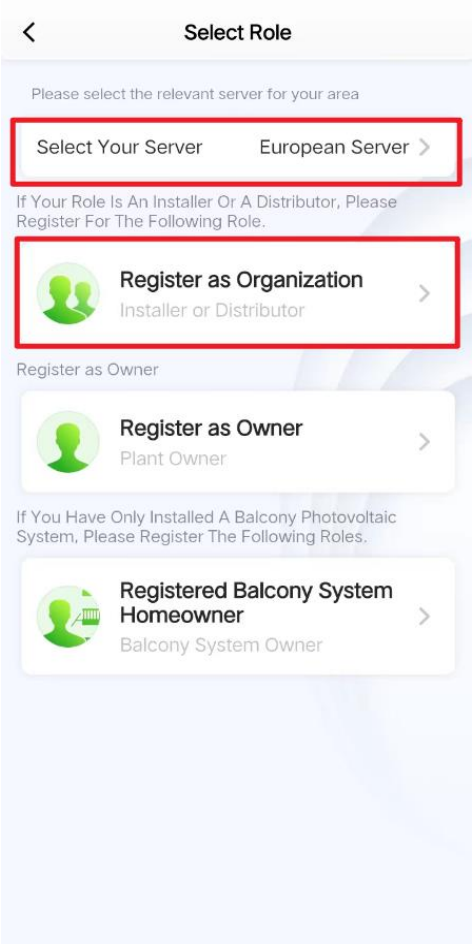
App Store

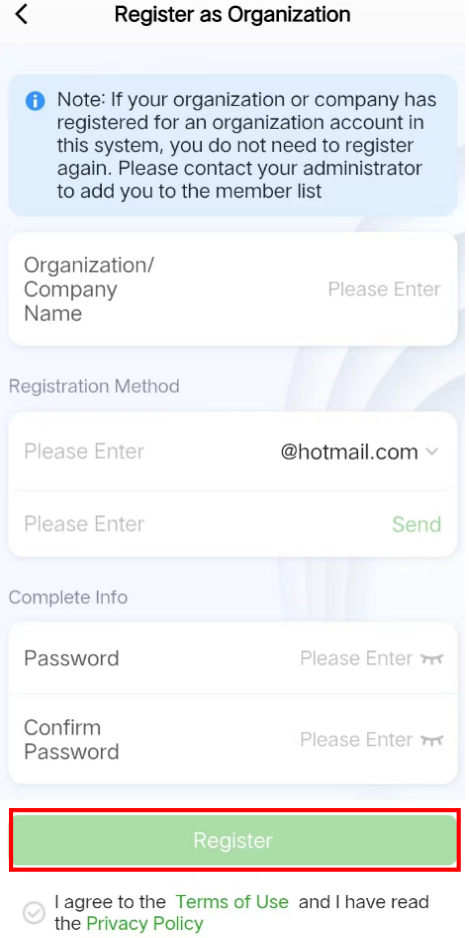
Google Play Store
Search “HYXipower”

Google Play



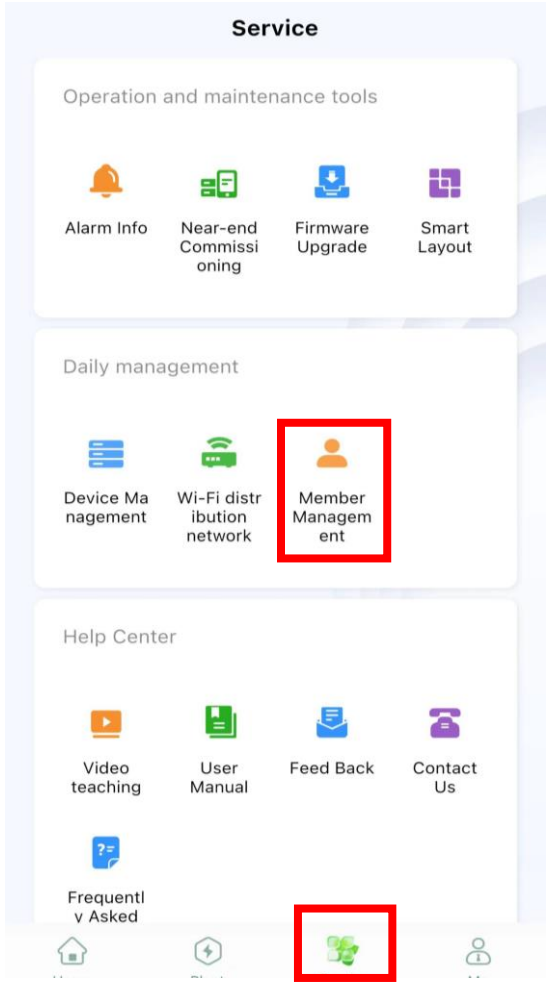
Step2 : Select Your Server, Register as Organization .

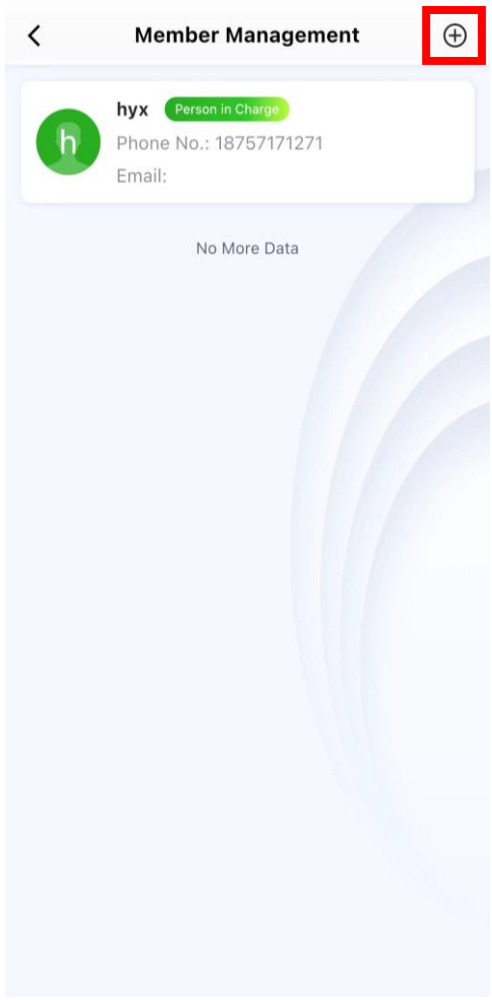


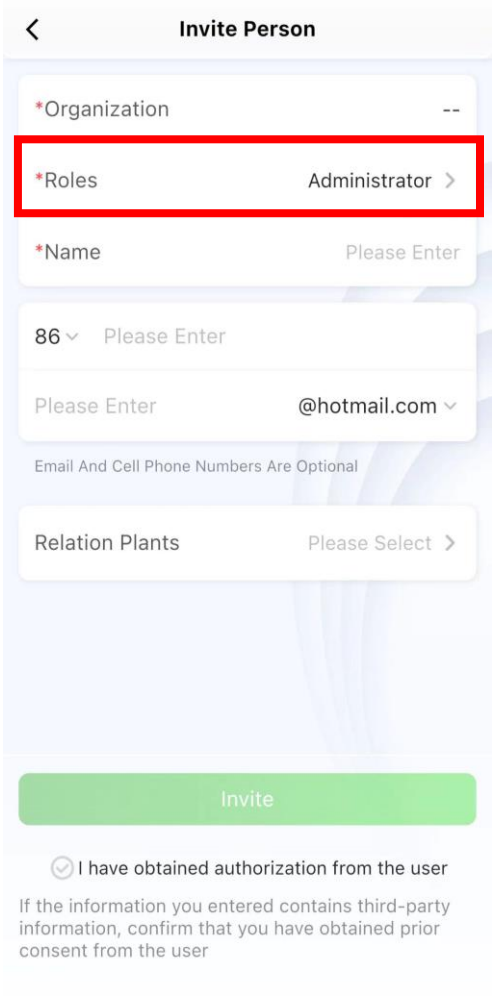


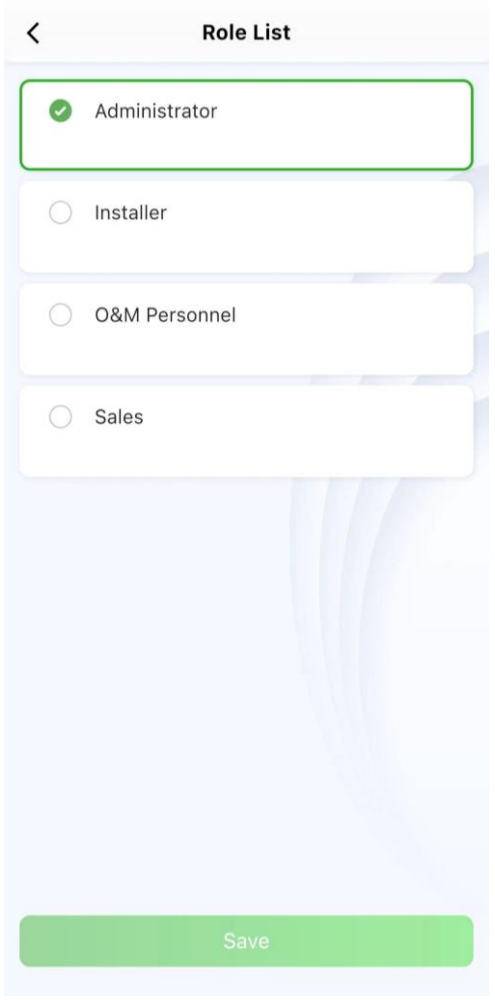
APP Configuration-1 Download and Registration

Step3: Log in the account,select **service-Menber Management**, then seclect **+** to add the member.
It’ s recommand to seclect “administrator”.









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Creat Plant for Users

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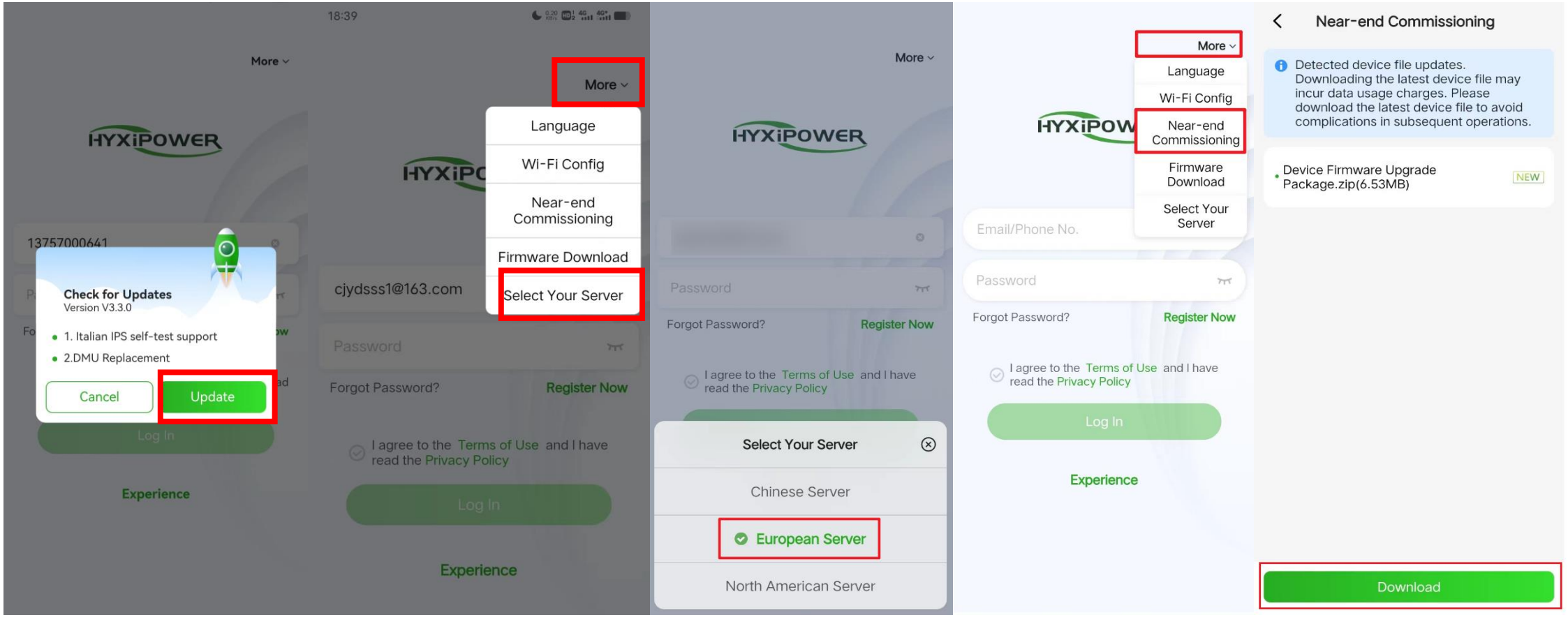
Check Signal Strength

Check the signal strength of the microinverter after the configuration.
Ensure that microinverter, software and mobile data transmission are normal.

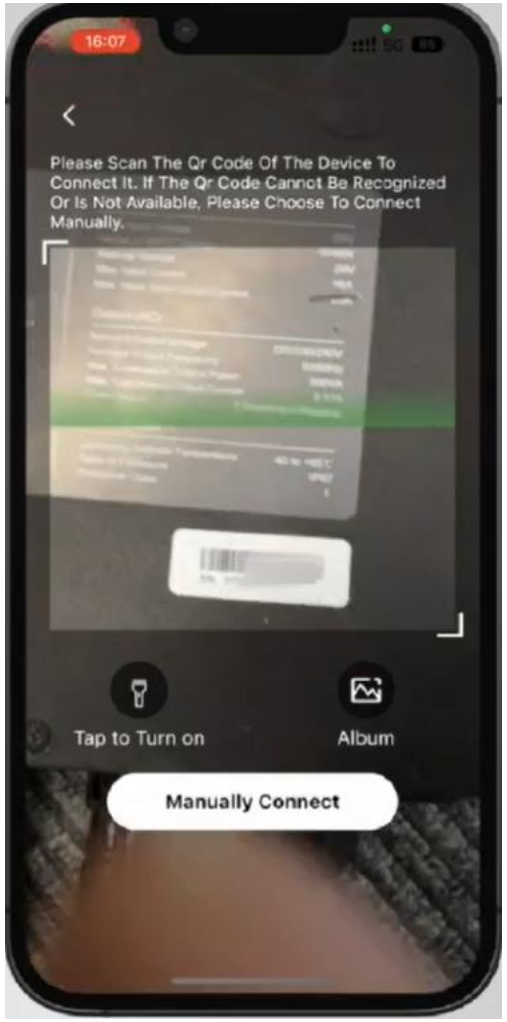
APP Configuration-Near-end Configuration

Step 1: Open the APP , if prompted to update the version, **update** it before configuration.
Then select **More, Select Your Server-European Server(Europe, Africa, Asia (except China), Brazil, Argentina).**
Then **Near-end Commissioning**. **Download**, will take about 1 minute .The Device Firmware Upgrade Package will stored in the phone.

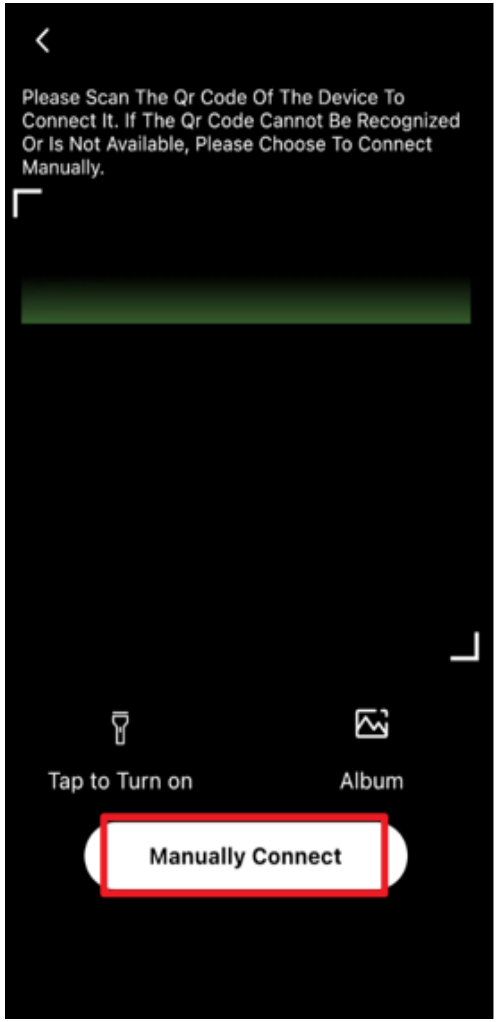


APP Configuration-Near-end Configuration

Step 2: **Scan** the Barcode of the Microinverter,
Join the MI-XXXXXXXXXXXX.



At the same time,
another method is **Manually Connect.**



APP Configuration-Near-end Configuration

IOS operating system:

In phone's WIFI page, find: MI-XXXXXXXXXXXX; Connect it, WIFIPassword is **12345678** or **hyxi0607**; Connect successfully. **Return** to APP page. Then **Next**.

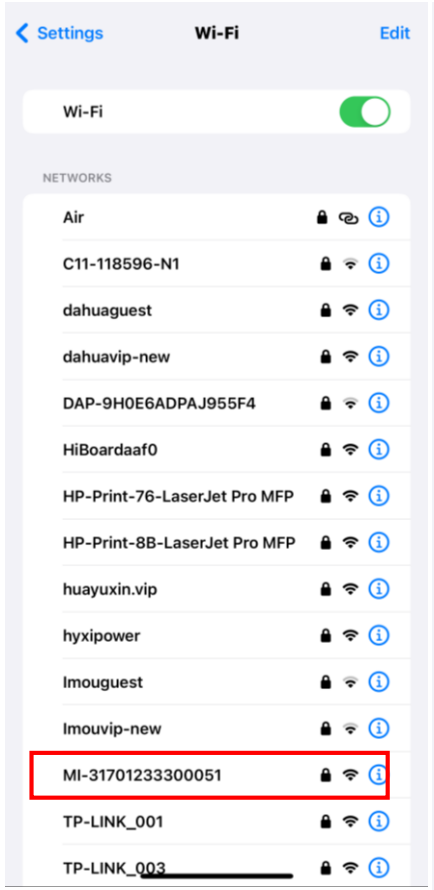
APP Page

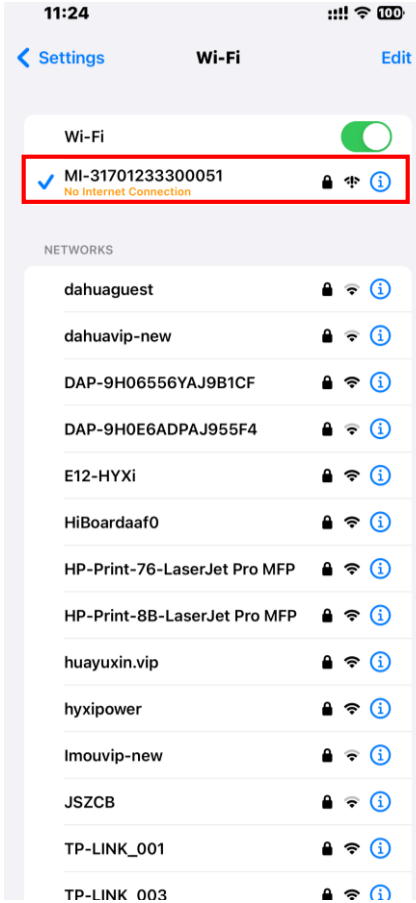
Keep the APP running and **manually** go to the WiFi page.

Input the WiFi password.

Then back to APP.

Phone WIFI Page





APP Page

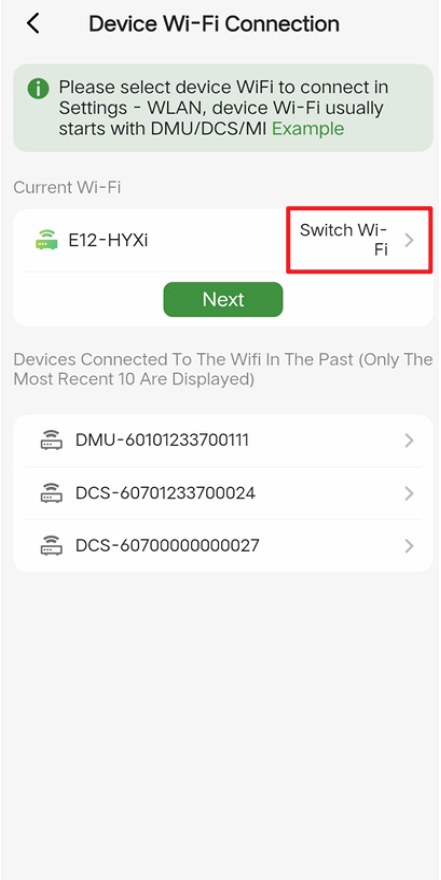
APP Configuration-Near-end Configuration

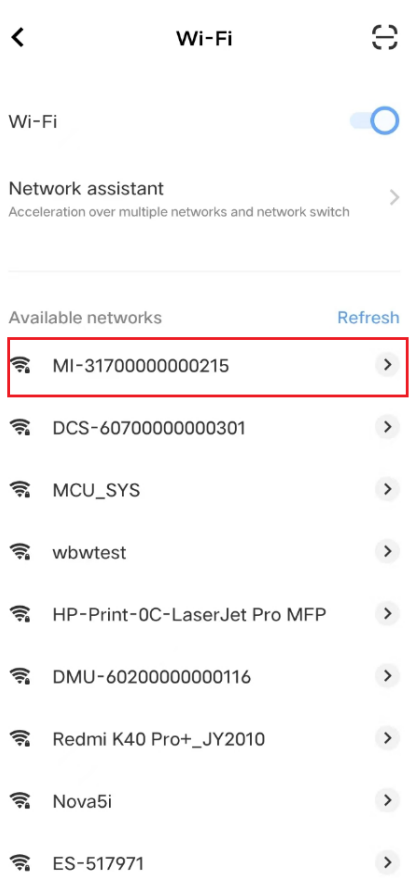
Android operating system :

Switch Wi-Fi. In phone's WIFI page, find: MI-XXXXXXXXXXXX; Connect it.

WIFI Password is **12345678** or**hyxi0607**; Connect successfully. **Return** to APP page. Then **Next**.

APP Page

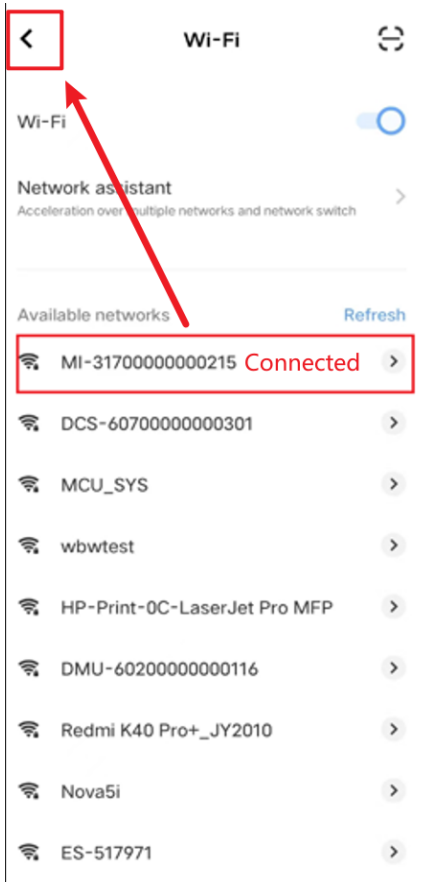




Phone WIFI Page

Input the WiFi password.

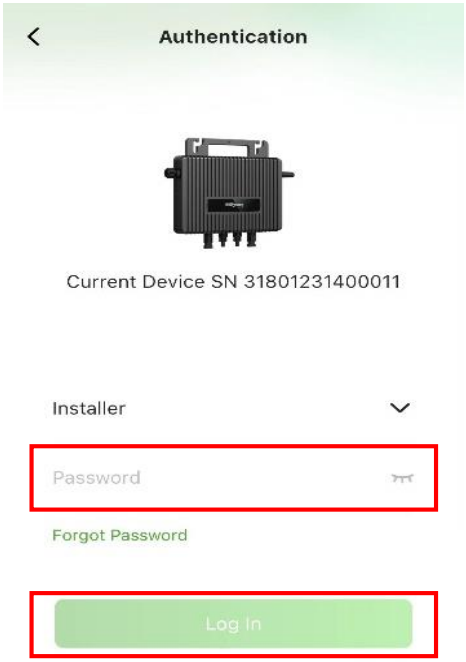
Then back to APP.



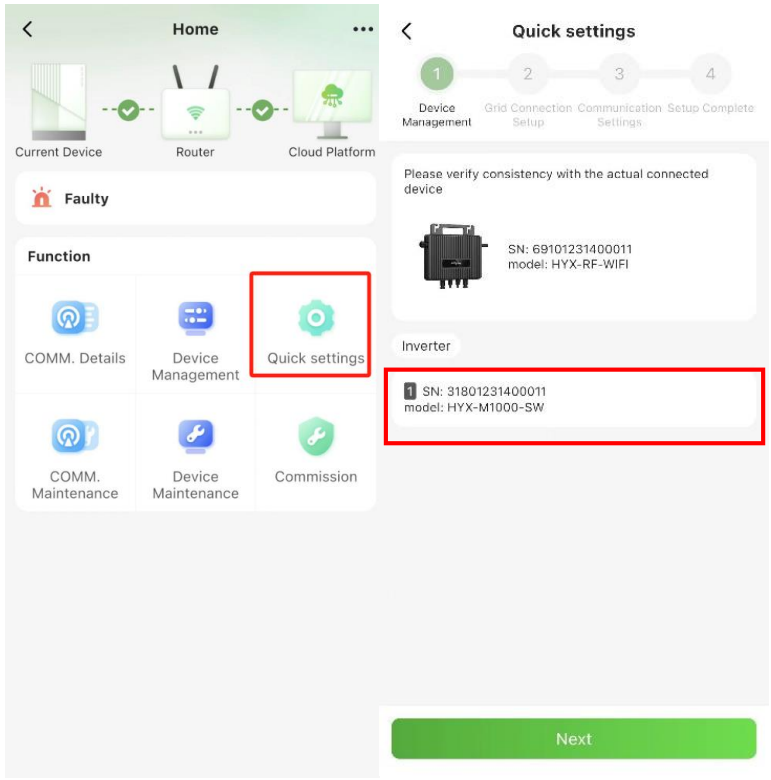
APP Page

APP Configuration-Quick Settings

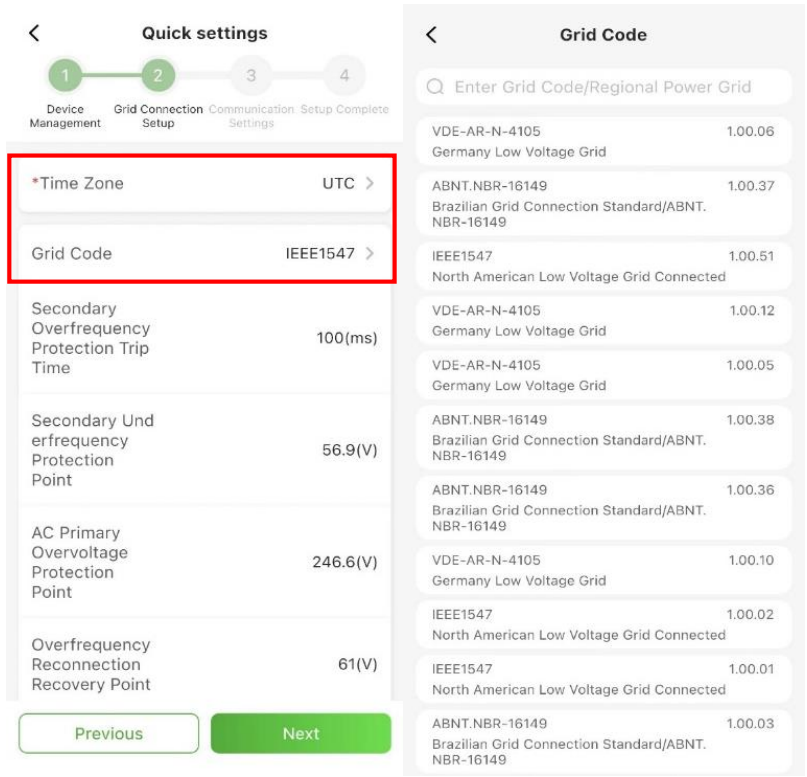
Step 3: Select **Installer**, enter the initial device accces password: **hyxi0607**, **Log In** and modify the password, then Next. (Record the new password).



Step 4: **Quick settings**, Confirm the SN of microinverter.

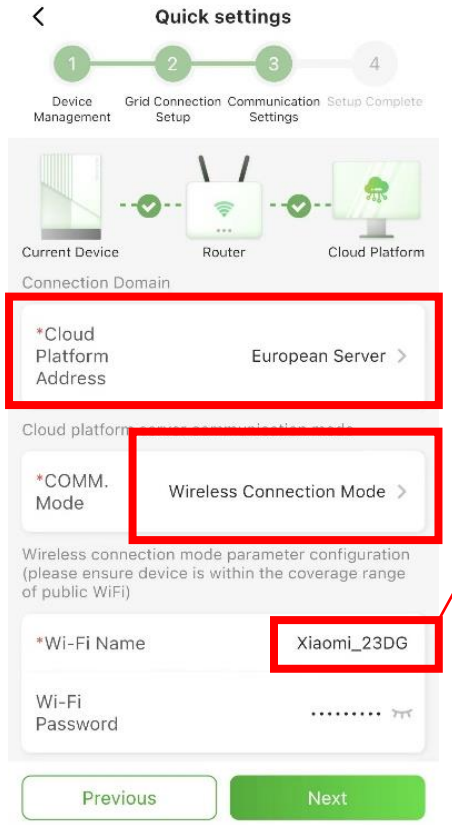


Step 5: **Time Zone**, and corresponding **Grid Code**. **Next**.



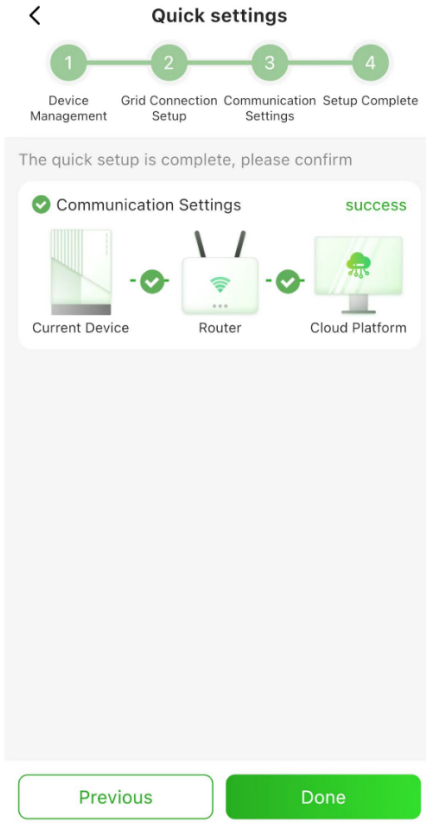
APP Configuration-Quick Settings

Step 6: Cloud Platform Address (e.g. **European Server**);
COMM. Mode : **Wireless Connection Mode**;
Wi-Fi Name and password of the network.



Android users can automatically obtain the corresponding wifi name
Apple users need to manually input the WiFi name

Step 7: Confirm that the device, router, and cloud platform communication is normal, select **Done**, and the network configuration is successful.



APP Configuration

Download and Registration

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

Near-end Configuration

Register the WiFi micoinverter to the cloud server through Configuration.
All HYXiPOWER's equipment is managed by the cloud platform. After the equipment is registered to the cloud server, it can be managed uniformly through the cloud platform.

Creat Plant for Users

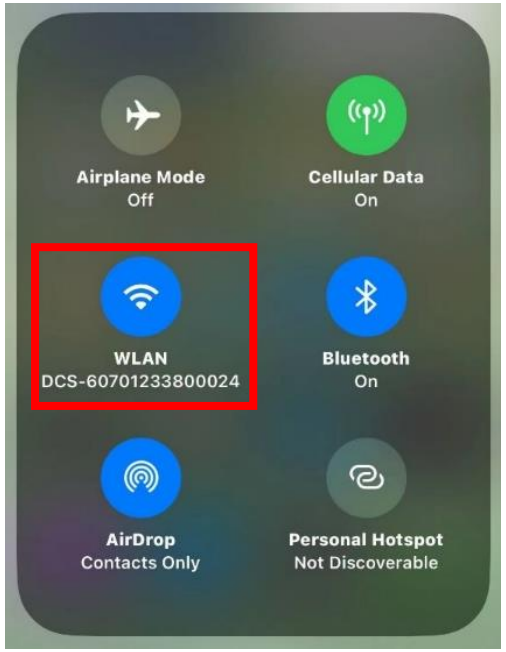
Create a plant for users
Manage the equipment through the Plant and check the equipment status, system power generation and usage, etc.

Check Signal Strength

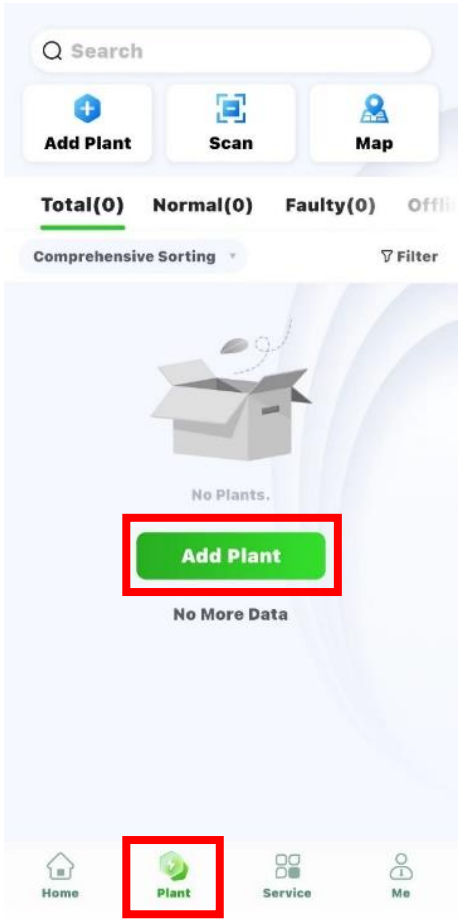
Check the signal strength of the microinverter after the configuration.
Ensure that microinverter, software and mobile data transmission are normal.

APP configuration - Create a Plant for the owner

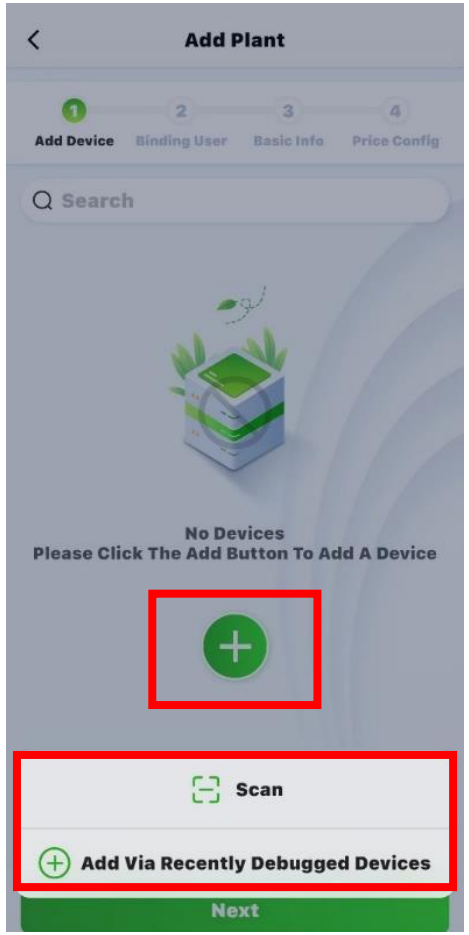
Step 1: Disconnect the phone from the Microinverter's WiFi. Make sure your phone has Internet access



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



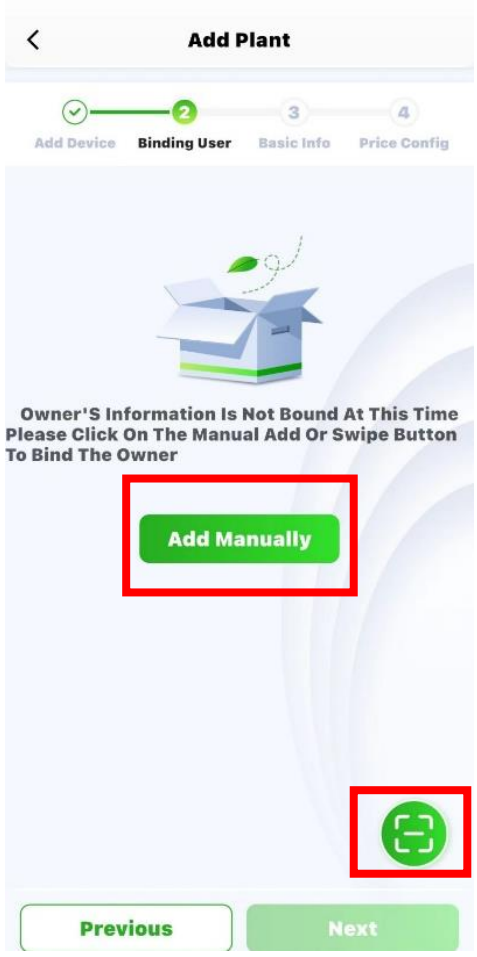
Step 3: **Scan the QR code of the Microinverter or add it through the Recently debugged device**

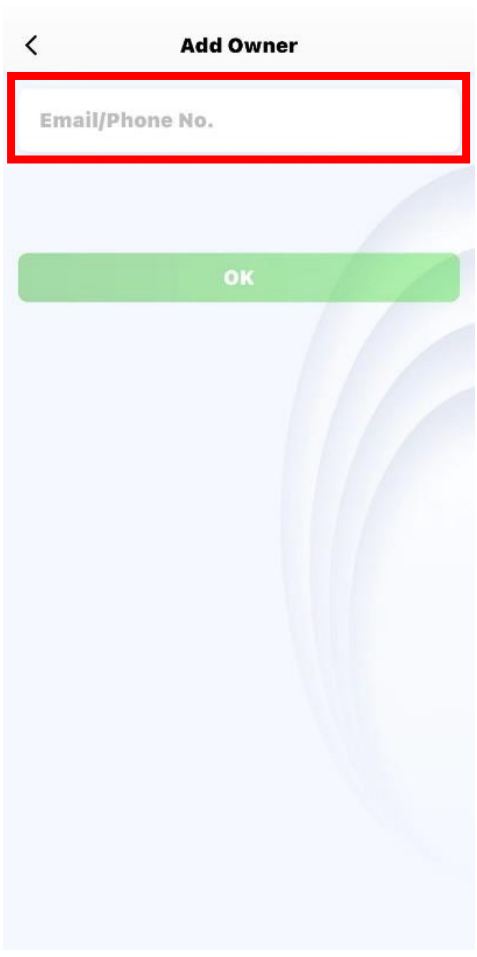


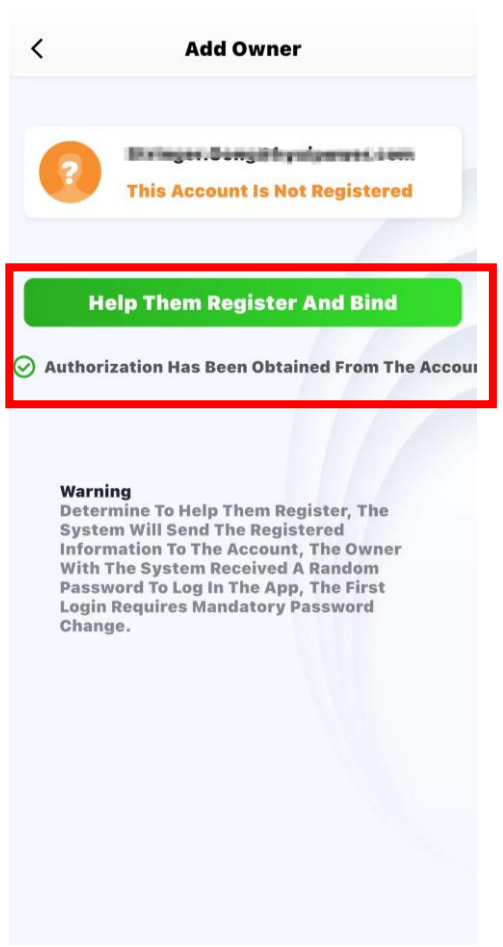
Create Plant video: https://webfile.hyxipower.com/soft/20231129/HYXiPOWER-APP_Create-plants_Ver1.0-20231103.mp4

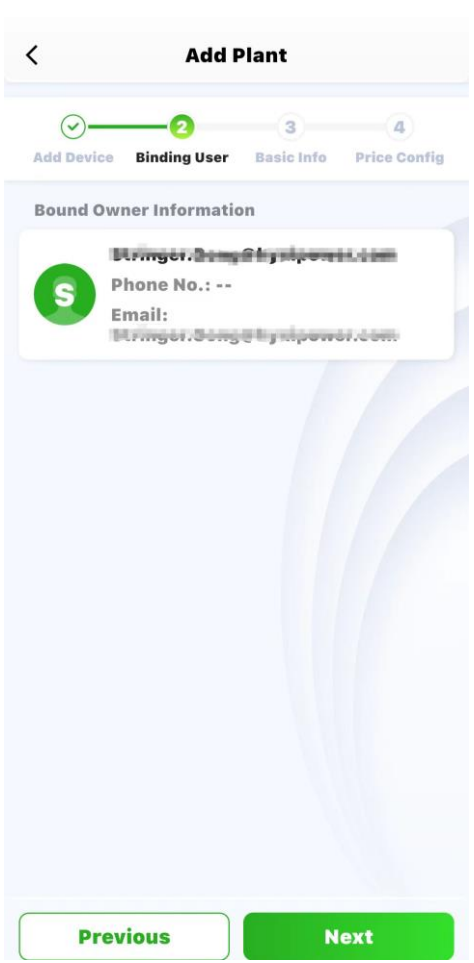
APP configuration - Create a Plant for the owner

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



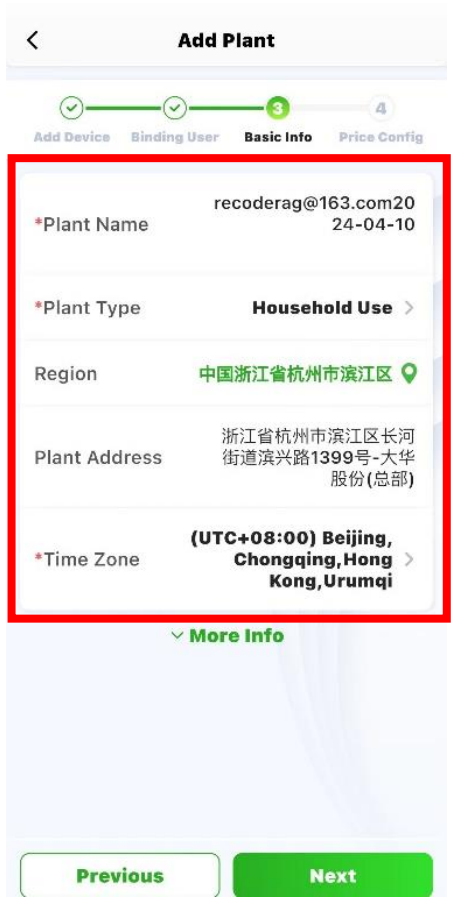


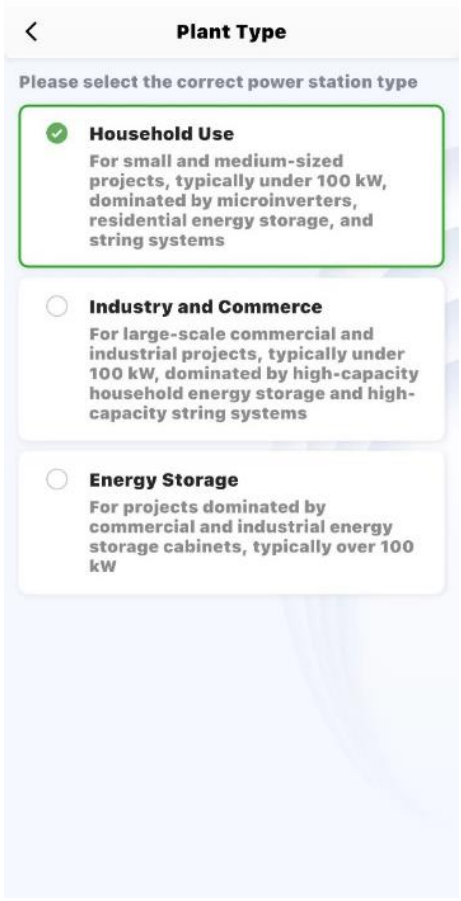




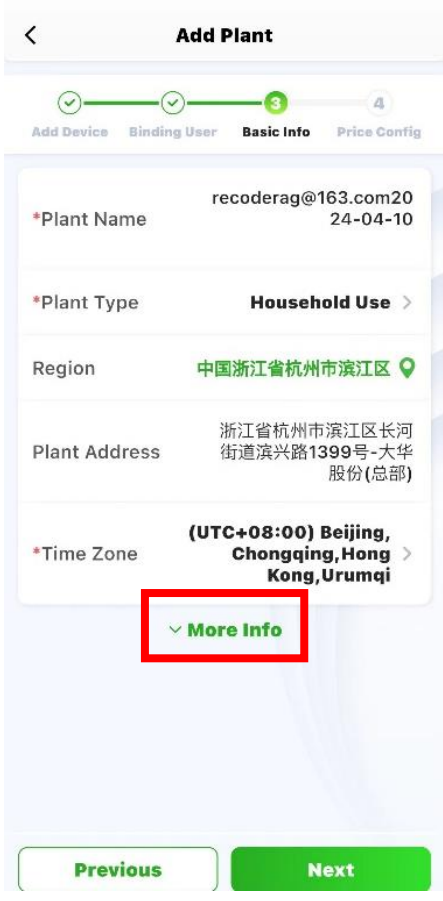
APP configuration - Create a Plant for the owner

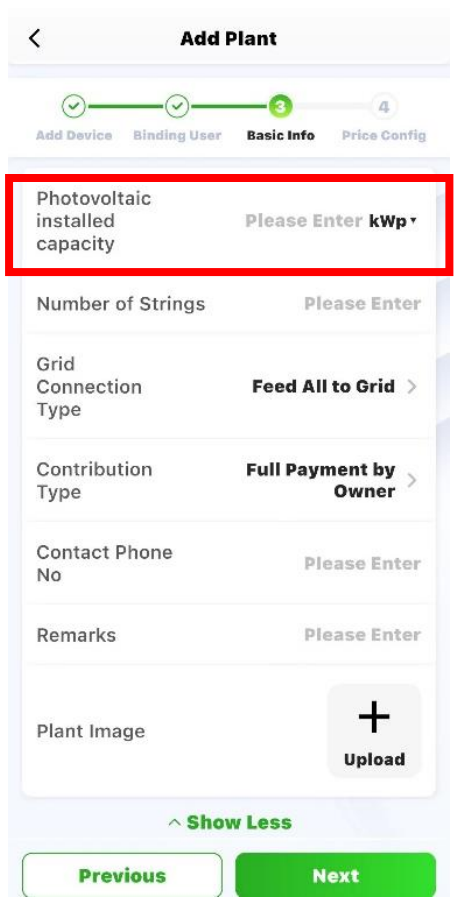
Step 5: Plant name-Plant type**(House hold Use)**-Region-Time Zone





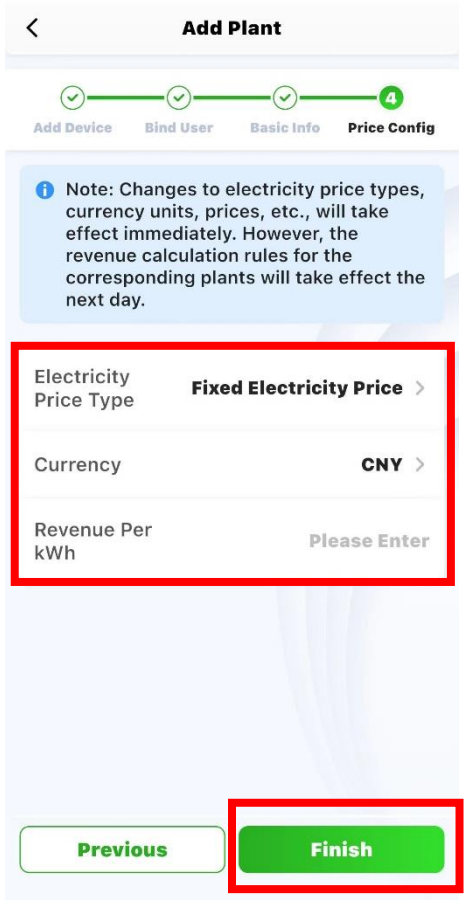
Step 6: More Info-Next.

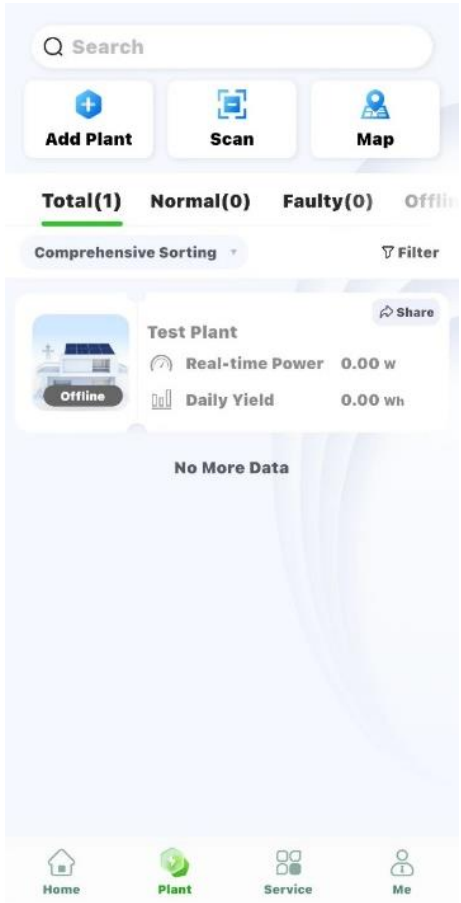




APP configuration - Create a Plant for the owner

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





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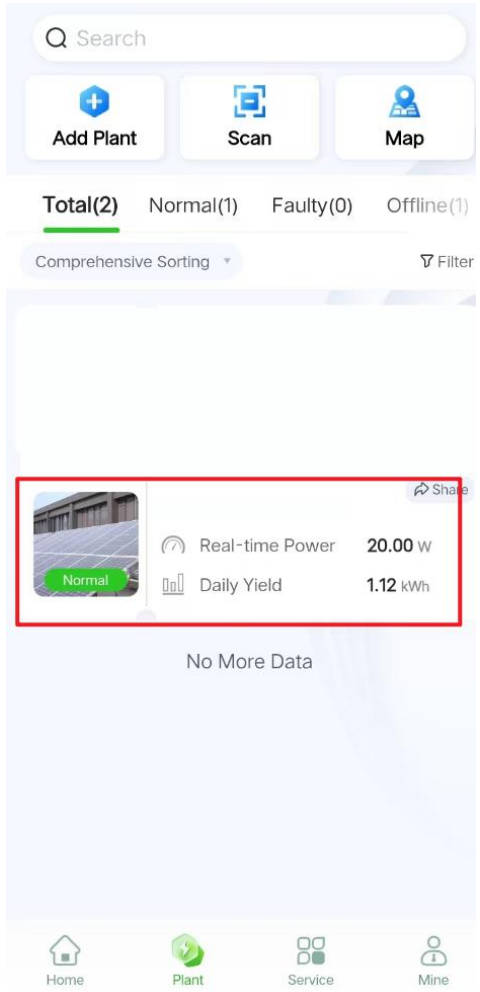
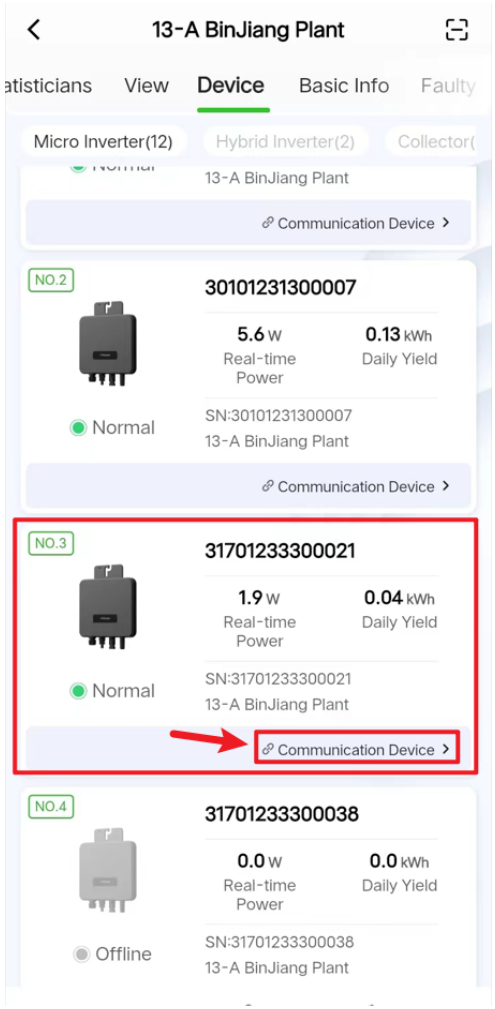
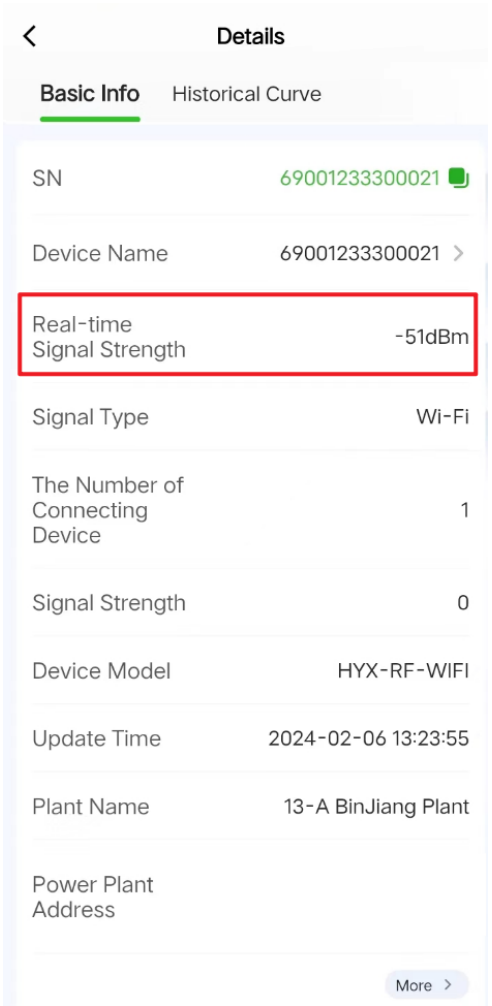
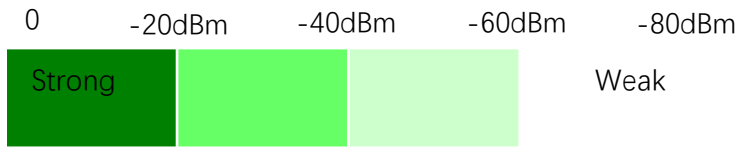
APP Configuration-Create Plant for Owner

Step1：Plant- Device- Communication Device- Real-time Signal Strength.





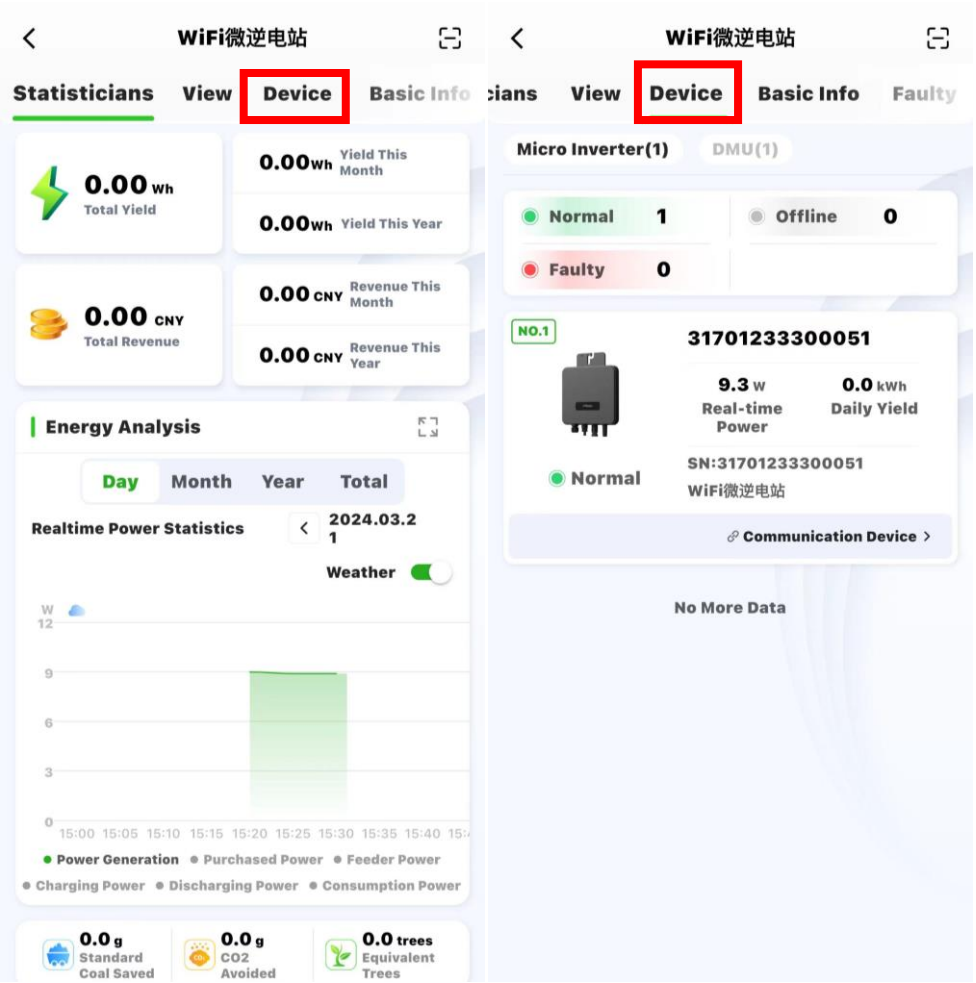




The value should be within 0~-60 dBm

Need to adjust the network.

Installation Acceptance



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

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 power station has started generating electricity normally.

After confirming that all the above are normal, it indicates that the device installation and configuration is successful!

HYXiPOWER

THANKS

Zhejiang Hyxi Technology Co., Ltd.

Dec. 2023

Quality | Innovation | Efficiency | Win-win