

# WIFI Version Microinverter Installation Guide

Zhejiang Hyxi Technology Co., Ltd.

QualityInnovationEfficiencyWin-win

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**Physical Installation** 



**APP** Configuration

#### **Preparation-1 Network**





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

- 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.



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**"



2. Signal value icon.

HYXIPOWER

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#### **Preparation-2 Materials**





#### Notice!! Installer have to buy these accessories locally:

	NO.	Product Name	Model	Description	Remark
	1	Screws	M8*25	Used to fix microinverter	Buy Locally
<b>B:</b> Antenna <b>C:</b> DC teminal	2	PV cable		PV panel to Microinverters	Buy Locally or from Hyxipower
<b>Note:</b> Appearances may vary depending on the model.	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	<b>F</b>	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, <b>10AWG</b> , brown blue insulation layer), <b>32A</b> 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**



**HYXiPOWER** 

#### **Preparation-4 Tools**



#### Please prepare professional electrician tools in advance



Wire stripper



Wire nippers



Screwdriver



Multimeter





Cable tie





Dust mask

Goggles

Safety shoes

Safety gloves

Tape measure

Hexagon wrench

Marker

# Contents



Preparation





**APP** Configuration

## **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.

and remove the cable.



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

# Contents



Preparation



#### **Physical Installation**



## **APP Configuration**



Download and Registration	1. Download HYXipower APP. 2. Register the account of the person in charge of the organization.
Near-end Configuration	<b>Register the WiFi micoinverter to the cloud server through Configuration.</b> 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	<b>Create a plant for users</b> Manage the equipment through the Plant and check the equipment status, system power generation and usage, etc.
Check Signal Strength	<b>Check the signal strength of the microinverter after the configuration.</b> 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**.

# Step2 : Select Your Server, Register as Organization .



#### **APP Configuration-1 Download and Registration**



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

	Service		Kember Management	+ C Invite Person	< Role List
Operation an	nd maintenance tools		hyx Person in Charge Phone No.: 18757171271	*Organization	Administrator
۹	a <b>r</b> 🛃	12	Email:	*Roles Administrator >	Installer
Alarm Info N	Near-end Firmware Commissi Upgrade oning	Smart Layout	No More Data	*Name Please Enter	
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	â 💄			Email And Cell Phone Numbers Are Optional	
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Help Center					
Video	User Feed Back	Contact			
teaching	Manual	Us		Invite	
?=				I have obtained authorization from the user	
Frequentl v Asked				If the information you entered contains third-party information, confirm that you have obtained prior consent from the user	Save
	(€) 5 <sup>2</sup>				

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**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.





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



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





#### **IOS operating system:**

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

#### **APP Page** Phone WIFI Page **APP** Page ::!! ? 00 11:24 **Device Wi-Fi Connection** Settings Wi-Fi Edit **Device Wi-Fi Connection** Settings Wi-Fi Edit Please select device WiFi to connect in Please select device WiFi to connect in Settings - WLAN, device Wi-Fi usually Wi-Fi Settings - WLAN, device Wi-Fi usually starts with DMU/DCS/MI Example Wi-Fi starts with DMU/DCS/MI Example Keep the APP MI-31701233300051 NETWORKS 🔒 🤹 🚺 **Current Wi-Fi Current Wi-Fi** Air 🔒 ල 🚺 running and How To Not Connected Connect? How To NETWORKS MI-3170000000215 C11-118596-N1 🔒 🤶 🚺 Connect? 🔒 🤝 🚺 Devices Connected To The Wifi In The Past (Only manually go to dahuaguest dahuaquest 🔒 奈 🚺 Next The Most Recent 10 Are Displayed) 🔒 🤝 🚺 dahuavip-new the WiFi page. 🔒 🗢 🚺 dahuavip-new **Devices Connected To The Wifi In The Past (Onl** 🔒 🤝 🚺 DAP-9H06556YAJ9B1CF The Most Recent 10 Are Displayed) DAP-9H0E6ADPAJ955F4 🔒 🤶 🚺 🔒 🤿 🚺 DAP-9H0E6ADPAJ955F4 HiBoardaaf0 🔒 奈 🚺 Input the WiFi 🔒 🗢 🚺 E12-HYXi HP-Print-76-LaserJet Pro MFP 🔒 奈 🚺 🔒 奈 🚺 HiBoardaaf0 password. HP-Print-8B-LaserJet Pro MFP 🔒 奈 🚺 HP-Print-76-LaserJet Pro MFP 🔺 🗢 🕦 huayuxin.vip 🔒 奈 🚺 HP-Print-8B-LaserJet Pro MFP 🔒 奈 🚺 🔒 奈 🚺 hyxipower Then back to APP. 🔒 穼 🚺 huayuxin.vip 🔒 🤶 🚺 Imouquest 🔒 奈 🚺 hyxipower Imouvip-new 🔒 🤶 🚺 🔒 🤿 🚺 Imouvip-new 🔒 🗢 🚺 MI-31701233300051 🔒 🤶 🚺 JSZCB 🔒 🗢 🚺 TP-LINK\_001 TP-LINK\_001 🔒 奈 🚺 TP-LINK\_003 🔒 🗢 🚺

TP-LINK 003

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**APP Page** 

#### 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**



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#### **APP Configuration-Quick Settings**

<

Current Device

📺 Faulty

Function

ର

COMM. Details

COMM.

Maintenance

Route

==

Device

Device

Maintenance

Managemen



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

	Authentication	
Curi	rent Device SN 3180123	1400011
Instal	ller	~
<b>Instal</b> Passv	ller word	<b>&gt;</b> ۳۳
Instal Passv Forgot	ller word t Password	<b>&gt;</b>



... <

Cloud Platfor

Quick settings

Commission

Device Management

device

Inverter

1 SN: 31801231400011 model: HYX-M1000-SW

**Quick settings** 

Please verify consistency with the actual conne

SN: 69101231400011

model: HYX-RF-WIFI

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

	< Quick set	tings	< Grid Code	
4		3 4	Q Enter Grid Code/Regional Power	Grid
	Management Setup	Settings	VDE-AR-N-4105 Germany Low Voltage Grid	1.00.06
ted	*Time Zone	UTC >	ABNT.NBR-16149 Brazilian Grid Connection Standard/ABNT. NBR-16149	1.00.37
	Grid Code	IEEE1547 >	IEEE1547 North American Low Voltage Grid Connecte	1.00.51 d
	Secondary Overfrequency	100(ms)	VDE-AR-N-4105 Germany Low Voltage Grid	1.00.12
	Time		VDE-AR-N-4105 Germany Low Voltage Grid	1.00.05
	Secondary Und erfrequency Protection	56.9(V)	ABNT.NBR-16149 Brazilian Grid Connection Standard/ABNT. NBR-16149	1.00.38
	Point AC Primary		ABNT.NBR-16149 Brazilian Grid Connection Standard/ABNT. NBR-16149	1.00.36
	Overvoltage Protection Point	246.6(V)	VDE-AR-N-4105 Germany Low Voltage Grid	1.00.10
	Overfrequency		IEEE1547 North American Low Voltage Grid Connecte	1.00.02 d
	Reconnection Recovery Point	61(V)	IEEE1547 North American Low Voltage Grid Connecte	1.00.01 d
	Previous	Next	ABNT.NBR-16149 Brazilian Grid Connection Standard/ABNT. NBR-16149	1.00.03

## **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.



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





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







**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



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



#### Step 6: More Info-Next.

Plant Type     Household Use >       egion     中国浙江省杭州市滨江区 ♀       lant 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)       Fime Zone     (UTC+08:00) Beijing, Chongqing,Hong >	Plant Name	recoderag@	163.com20 24-04-10
egion 中国浙江省杭州市滨江区 Q 浙江省杭州市滨江区长河 街道滨兴路1399号-大华 股份(总部) Fime Zone (UTC+08:00) Beijing, Chongqing, Hong >	Plant Type	House	nold Use >
lant 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) Fime Zone (UTC+08:00) Beijing, Chongqing, Hong >	Region	中国浙江省杭州	市滨江区 ♀
(UTC+08:00) Beijing, Fime Zone Chongqing, Hong >	Plant Address	浙江省杭州市 街道滨兴路1	市滨江区长河   <b>399号-</b> 大华 股份(总部)
Kong, Urumqi	Time Zone	(UTC+08:00) Chongqii Kong	Beijing, ng,Hong → ,Urumqi
✓ More Info	~	More Info	

< Add F	Plant
Add Device Binding User	3 4 Basic Info Price Config
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
^ Show	v Less
Previous	Next



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

<	Add Plant	Q Search		
Add Device Bin	Id User Basic Info Price Config	to Add Plant	E Scan	A Map
<ol> <li>Note: Chan currency ur effect imme revenue cal correspond next day.</li> </ol>	ges to electricity price types, hits, prices, etc., will take ediately. However, the iculation rules for the ling plants will take effect the	Total(1) Comprehensiv	Normal(0) e Sorting	Faulty(0) Offi ⊽Filter
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Currency	CNY >		No More Data	
Revenue Per kWh	Please Enter			
Previous	Finish	$\bigcirc$	0. 9	

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#### **APP Configuration-Create Plant for Owner**



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



#### **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!



