

# **VEVOR<sup>®</sup>**

**TOUGH TOOLS, HALF PRICE**

Technical Support and E-Warranty Certificate

[www.vevor.com/support](http://www.vevor.com/support)

## **MICRO INVERTER**

**MODEL:GT-600/GT-800/GT-1200**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.



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TOUGH TOOLS, HALF PRICE

## MICRO INVERTER

MODEL:GT-600/GT-800/GT-1200



**GT-600/GT-800**





**GT-1200**

### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

**Technical Support and E-Warranty Certificate**  
[www.vevor.com/support](http://www.vevor.com/support)

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

	<p>Warning-To reduce the risk of injury, user must read instructions manual carefully.</p>
	<p>This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices</p>

**WARNING: DANGER OF ELECTRICAL SHOCK**

The product is used in combination with a permanent energy source (battery). Even if the equipment is switched off, a dangerous electrical voltage can occur at the input and/or output terminals. Always switch the AC power off and disconnect the battery before performing maintenance.

The product contains no internal user-serviceable parts. Do not remove the front panel and do not put the product into operation unless all panels are fitted. All maintenance should be performed by qualified personnel.

Never use the product at sites where gas or dust explosions could occur. Refer to the specifications provided by the manufacturer of the battery to ensure that the battery is suitable for use with this product. The battery manufacturer's safety instructions should always be observed.

**WARNING: do not lift heavy objects unassisted.**

**Installation**

Read the installation instructions before commencing installation activities. This product is a safety class I device (supplied with a ground terminal for safety purposes). Its AC input and/or output terminals must be provided with uninterruptible grounding for safety purposes. An additional grounding point is located on the outside of the product. If it can be assumed that the grounding protection is damaged, the product should be taken out of

operation and prevented from accidentally being put into operation again; contact qualified maintenance personnel.

Ensure that the connection cables are provided with fuses and circuit breakers. Never replace a protective device by a component of a different type. Refer to the manual for the correct part.

Check before switching the device on whether the available voltage source conforms to the configuration settings of the product as described in the manual.

Ensure that the equipment is used under the correct operating conditions. Never operate it in a wet or dusty environment.

Ensure that there is always sufficient free space around the product for ventilation, and that ventilation openings are not blocked.

Install the product in a heatproof environment. Ensure therefore that there are no chemicals, plastic parts, curtains or other textiles, etc.

in the immediate vicinity of the equipment.

### **Transport and storage**

On storage or transport of the product, ensure that the mains supply and battery leads are disconnected.

No liability can be accepted for damage in transit if the equipment is not transported in its original packaging.

Store the product in a dry environment; the storage temperature should range from  $-40^{\circ}\text{C}$  to  $65^{\circ}\text{C}$ .

Refer to the battery manufacturer's manual for information on transport, storage, charging, recharging and disposal of the battery.

## SPECIFICATIONS

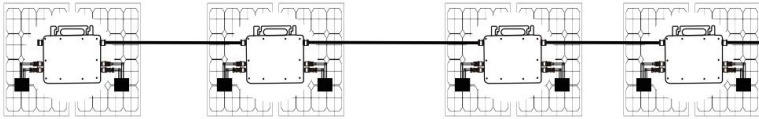
You are welcome to choose our micro grid-connected solar inverter products.

Specification data	Model		
	GT-600	GT-800	GT-1200
Input Data (DC, PV)			
Number of Input MC4 Connector	2 sets		4 sets
Operation Voltage Range	DC18V-50V		
Maximum input Current	12A*2	14A*2	16A*2
Output Data(AC)			
Single-Phase Grid Type	AC230V	AC230V	AC110V or AC230V
Maximum Output Power	600W	800W	1200W
Nominal Output Current	2.6A	3.5A	10.9A or 5.2A
Nominal Output Voltage	AC230V	AC230V	AC110V or AC230V
Output Frequency Range	50Hz	50Hz	60Hz or 50Hz
Power Factor	≥0.99%		
Total Harmonic Distortion	THD <5%		
Maximum Units per Branch	@230VAC:4units	@230VAC:3units	@110VAC:2units Or @230VAC:3units
Peak Efficiency	95%		
Nominal MPPT Efficiency	99.5%		
Night Power Consumption	≤1W		
Mechanical Data			
Operating Ambient Temperature Range	-40°C to +65°C		
Storage Temperature Range	-40°C to +85C		
Dimensions(W*H *D)	305 * 186 * 44mm		490 * 254 * 50mm
Waterproof Grade	IP67	IP65/IP67 ( Please refer to the product nameplate information )	IP67
Communication	WIFI(Cloud monitoring)		
Protection Functions	Isolated Island Protection, Voltage Protection Frequency Protection Temperature Protection, Current Protection, etc.		

## INSTALLATION SCHEMATIC

### Single-phase parallel assembly method of micro inverter

#### GT-600



1

2

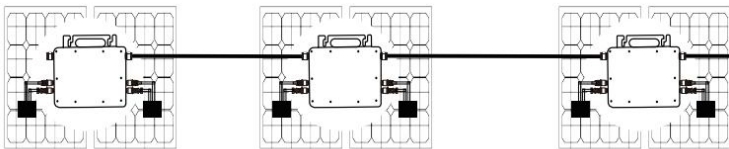
}-}-}

5

6

1. @Single-Phase 230V grid Maximum 4 units 600W Micro inverters per branch.
2. The max DC input power of each inverter is 600W(the PV module max output power is 2x300W).
3. The VOC of PV modules should not be greater than the max DC input voltage of Micro inverters.

#### GT-800



1

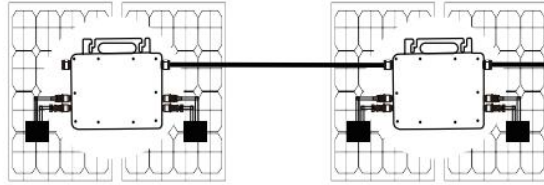
2

}-}-}

4

1. @Single-Phase 230V grid Maximum 3 units 800W Micro inverters per branch.
2. The max DC input power of each inverter is 800W(the PV module max output power is 2x400W).
3. The VOC of PV modules should not be greater than the max DC input voltage of Micro inverters.

# GT-1200



1

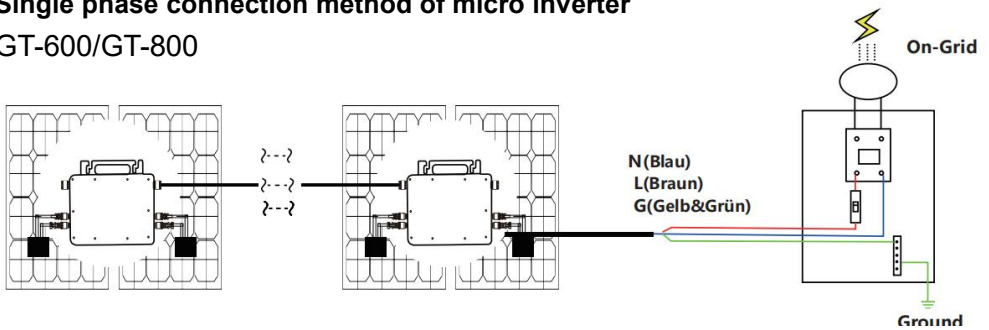
2

1. @Single-Phase 110V grid Maximum 2 units or @Single-Phase 230V grid Maximum 3 units 1200W Micro inverters per branch.
2. The max DC input power of each inverter is 1200W(the PV module max output power is 2x600W).
3. The VOC of PV modules should not be greater than the max DC input voltage of Micro inverters.

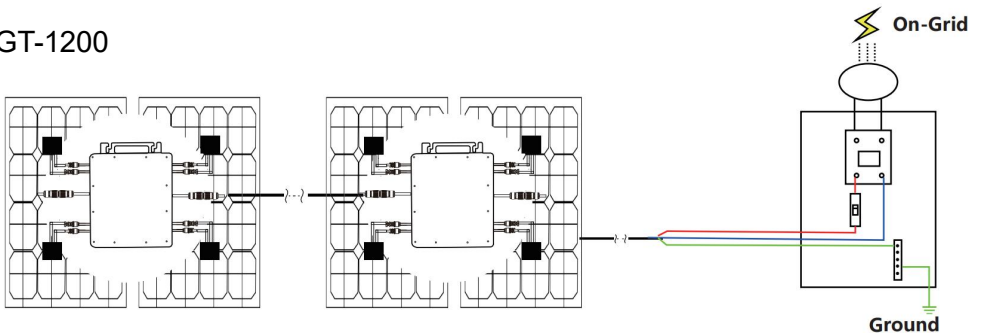
## WIRING SCHEMATIC

### Single phase connection method of micro inverter

#### GT-600/GT-800



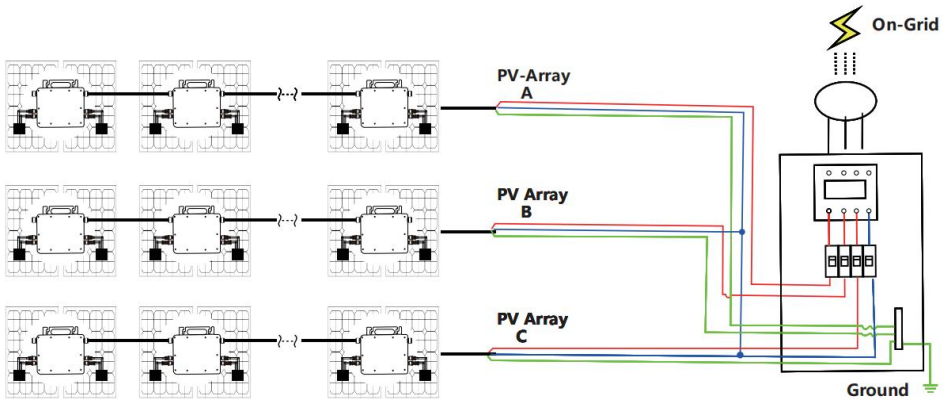
#### GT-1200



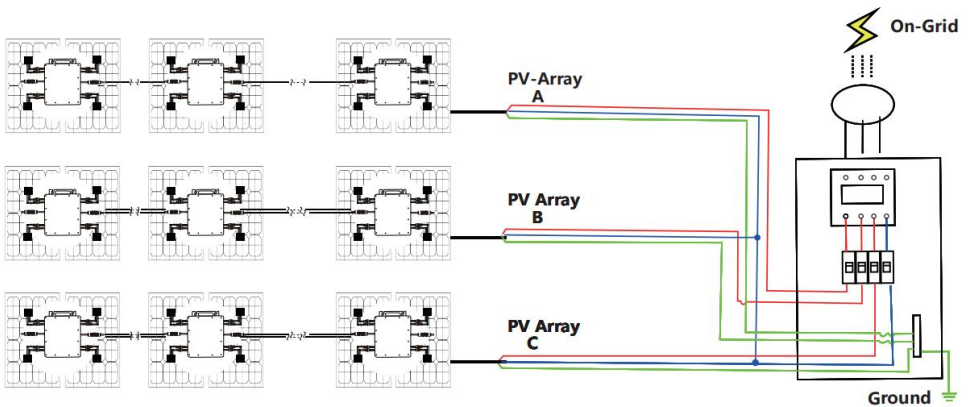


## Three phase connection method of micro inverter

GT-600/GT-800



GT-1200



## MICRO INVERTER WIFI CLOUD MONITORING

### 1. Precautions

- Note that there is a risk of electric shock when connecting the micro-inverter!
- The micro-inverter heats up during operation! Protect yourself accordingly from burns!
- Before configuring WiFi cloud monitoring, please correctly install the micro inverter and make it work normally.
- As smart device (smartphone or tablet) with Bluetooth function and Android or iOS system and a wireless network device eg. wireless router that can provide WiFi and Internet service must be available.
- To configure WLAN cloud monitoring, first switch on the Bluetooth function of the smart device.
- Make sure that your smart device uses the same WiFi network as the micro inverter to be configured and that it can connect to wireless network devices and access the internet in the same location of the micro inverter.
- Make sure that the distance between the wireless network device and the micro-inverter does not exceed 20 m and that there are no or few obstacles.





### 2. Hardware Description



### 3. WIFI Status LED

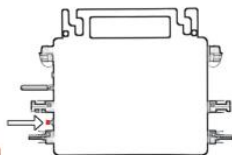
- The blue light flashes after always on = the WiFi cloud monitoring module is waiting for configuration.
- The blue light off after always on = the WiFi cloud monitoring module starts and enters the normal working state.
- The blue light flashes = the network is not configured or the network cannot connect to the wireless network device, or the micro inverter has been deleted in the cloud.
- No light = WiFi cloud monitoring is working normally.

### 4. Preparation Before Configuration And Use

- Install the micro inverter correctly and make it work normally to generate power.
- Download and install the  or "Smart Life" app by searching for it in the corresponding Android or Apple app store.
- Turn on the Bluetooth function of your smart device .
- Check that your wireless network device (such as wireless router) is working properly and connected to the Internet.
- Use your smart device (  or "Smart Life"  installed) at the installation location of micro inverter to connect to the wireless network device. If you can access the Internet normally, follow the instructions for configuration and usage on the next page.



## 5. Configuration Steps Of WIFI Cloud Monitoring.



1

Download in mobile application: smartlife or direct code scanning

2

Register personal account

3

Restore factory settings Press and hold the red key for 5-10 seconds and release it. The blue light is flashing and the instrument is connected successfully

4

Add inverter



5

Further add confirmation information

6

Make sure the Bluetooth or wifi in the phone is on

7

Enter your home WIFI account information password

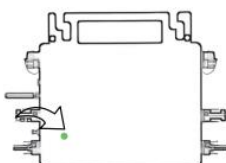
8

Click Next to install and modify the name and account freely



9

The interface can control the system switch normally. The connection is successful



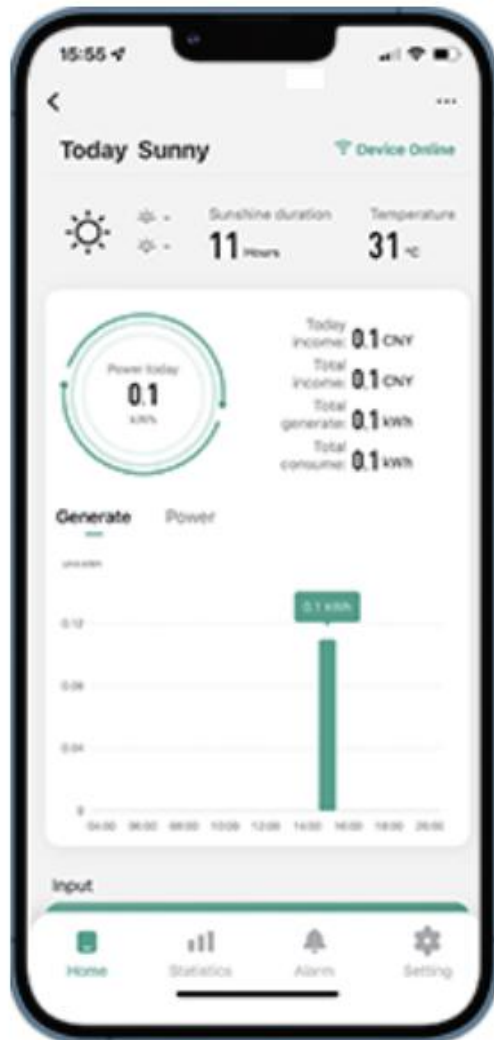
10



The connection is successful, and the green light of the inverter is always on in normal operation. Occasionally flashing instrument MPPT is tracking the optimal voltage

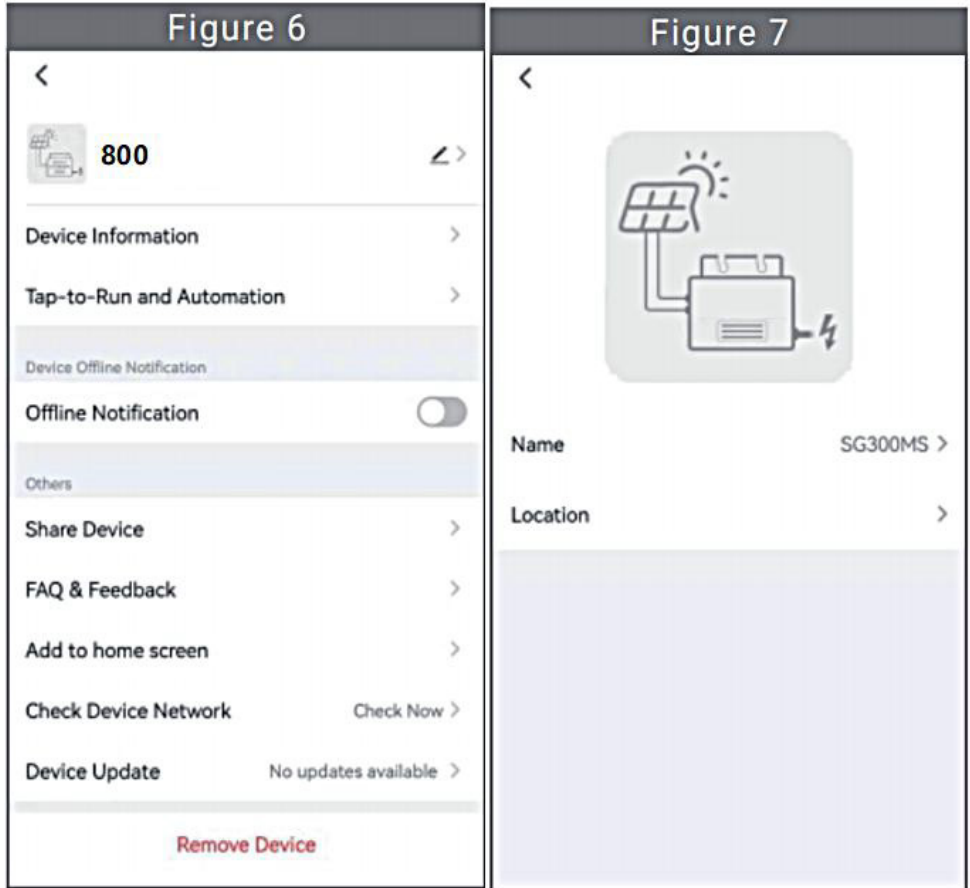
## 6. Usage Of WIFI Cloud Monitoring App.

### Modify Device Name


- Click the device to be modified in the device list on the home page to enter the device information details page (Figure 5).

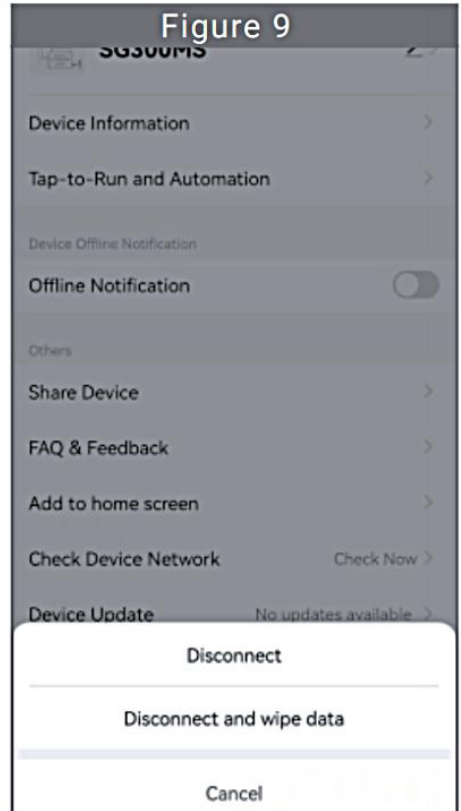
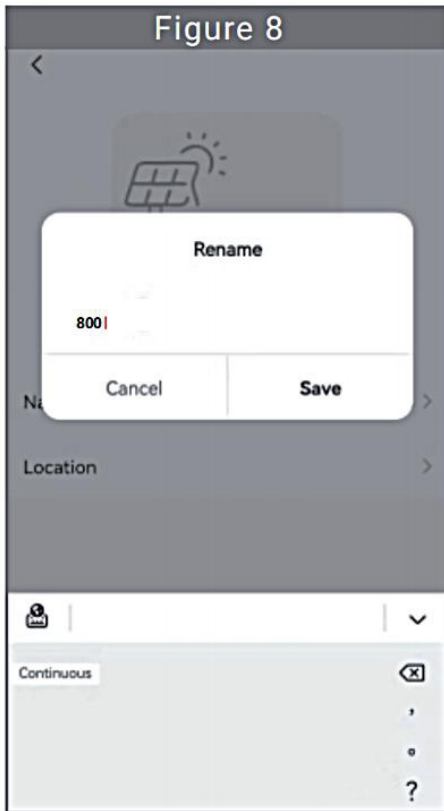


- Click the button  in the upper right to enter the device setting page (Figure 6), Continue to click the upper button  to the page of name & position (Figure 7) click name item, then enter a new name and save it (Figure 8).



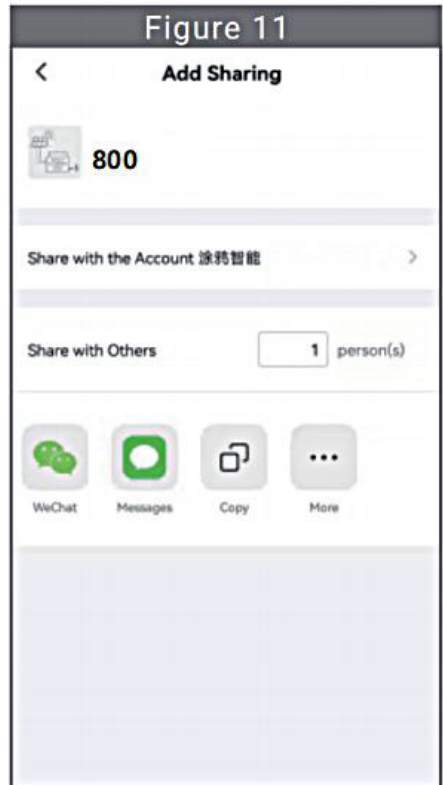
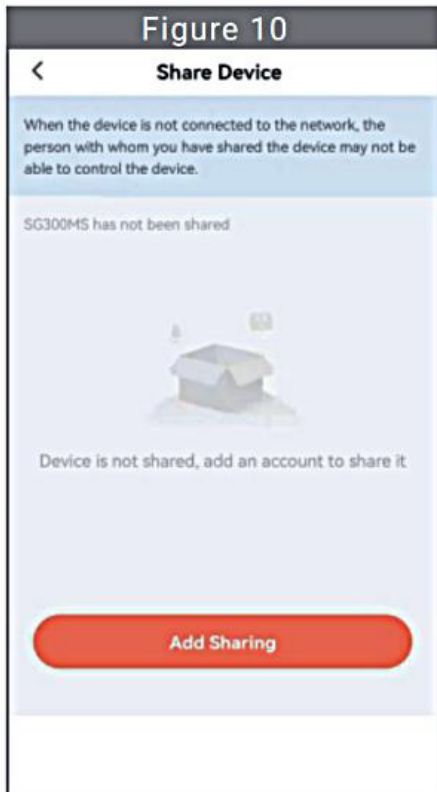
## Remove Device

- Click the device to be deleted in the device list on the home page to enter the device information details page (Figure 5).
- Click the button  in the upper right to enter the device setting page (Figure 6). Click "Remove Device" button below (Figure 9), click the "Disconnect" button to remove the device or click the "Disconnect and wipe data" button to remove the device and clear all data saved by the device in the cloud at the same time.



## Share Device With Others

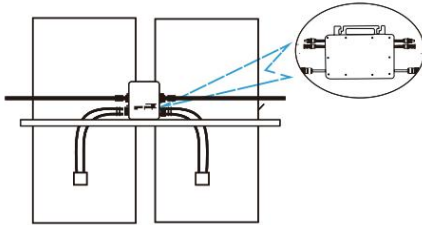
- Click the device to be shared in the device list on the home page to enter the device information details page (Figure 5).
- Click the button in the upper right to enter the device setting page (Figure 6).
- Click the "Share Device" item to enter the device sharing page (Figure 10), click **Add Sharing** button to enter "Add Sharing"page (Figure 11) , and select best sharing way that you think it is most convenient to share the link of micro inverter.



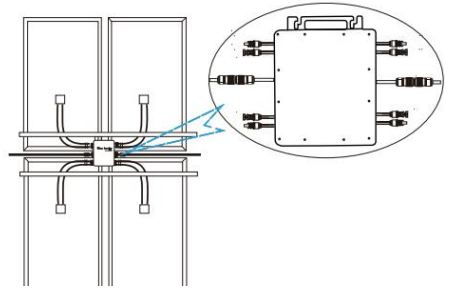


## INSTRUCTIONS FOR INSTALLATION WIRING

1. The installation process of fixing inverter to PV bracket with mounting screws is as follows:

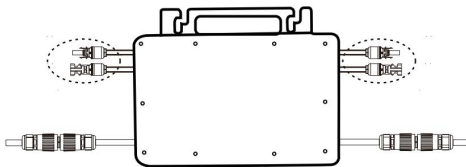


GT-600/800

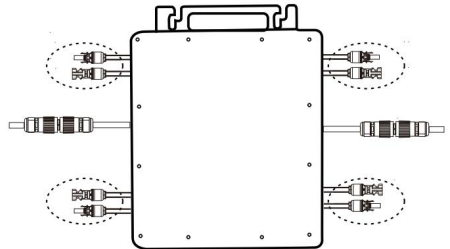


GT-1200

2. Connect the DC of PV to the inverter, and pay attention to distinguish between positive and negative, as shown below:

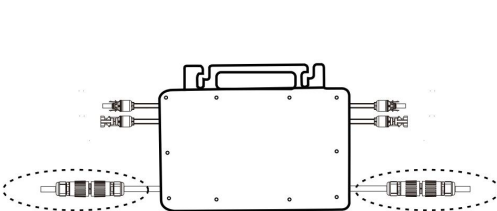


GT-600/800

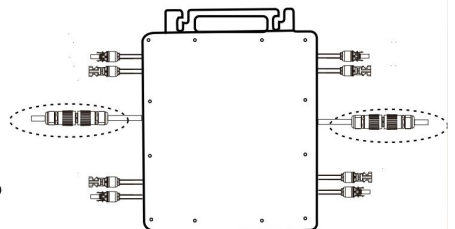


GT-1200

3. Open the waterproof cover on the AC output side of the micro inverter, and then connect it to the AC. As follows:

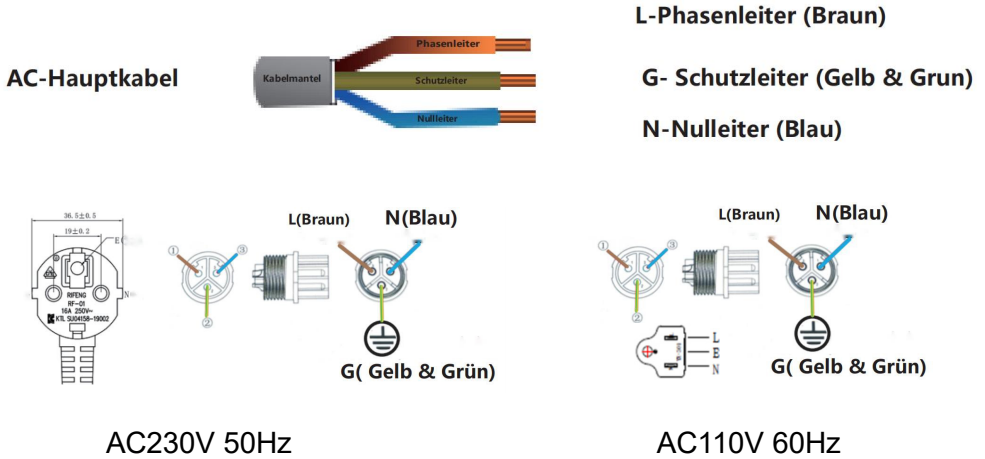


GT-600/800

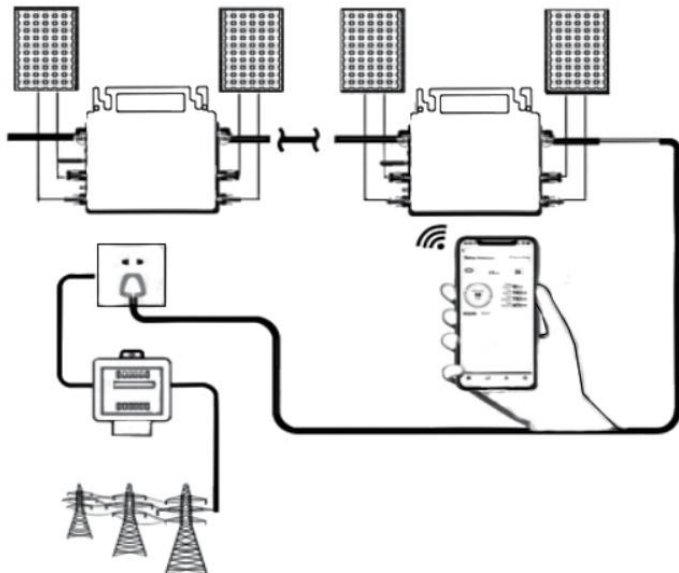


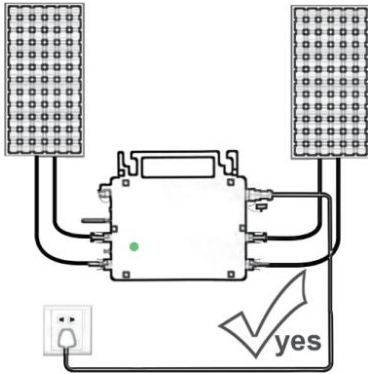
GT-1200

4. Repeat steps 1 to 3 to complete the installation of the micro inverter.
5. Connect multiple inverters through AC output cables.
6. The AC main cable is connected to the power grid.



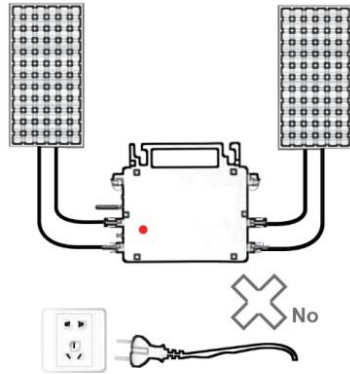
## SCHEMATIC DIAGRAM OF THE COMPLETION OF THE INSTALLATION



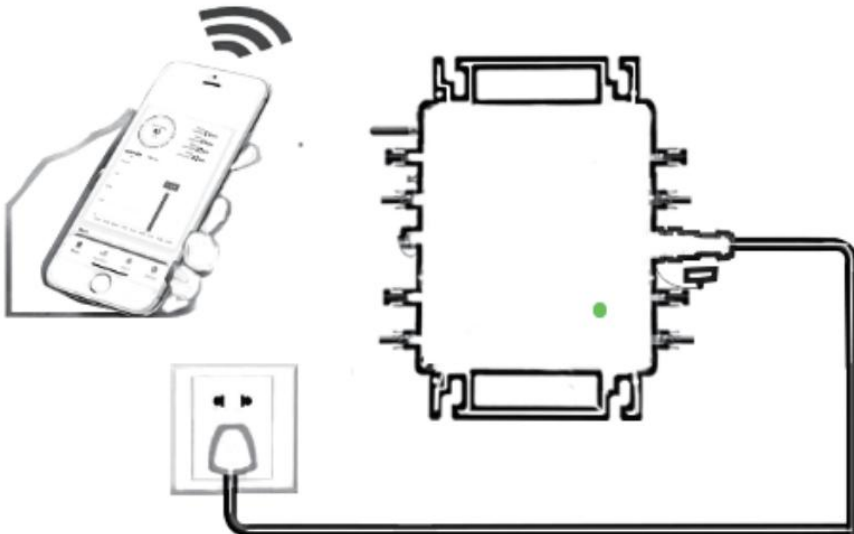


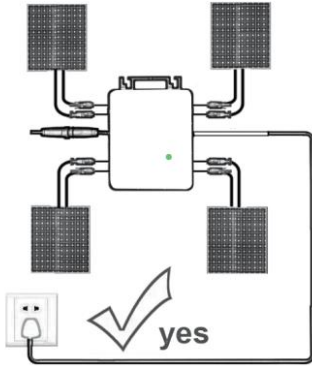
Only the solar panel is connected. When the mains AC is not connected, the red light on the inverter surface is on, and the instrument and machine do not work normally

Normal working conditions of the inverter: the 22-50V DC voltage of the solar panel must be connected, and the AC voltage must be connected at the same time, and the indicator light is green



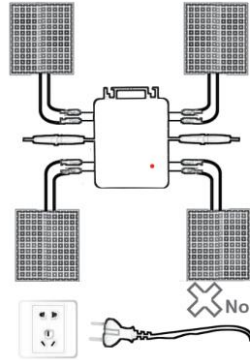
### GT-600/800





Normal working conditions of the inverter: the 22-50V DC voltage of the solar panel must be connected, and the AC voltage must be connected at the same time, and the indicator light is green

Only the solar panel is connected. When the mains AC is not connected, the red light on the inverter surface is on, and the instrument and machine do not work normally



## GT-1200

### Note:

When the inverter is purchased for the first time and connected to the mobile phone for monitoring, it is only necessary to switch on the mains AC, the blue light beside it flashes, and the inverter can be connected through WIFI or Bluetooth pairing. When the inverter can be controlled through the mobile phone, it is indicated that the connection is normal.

**1. WHAT TO DO when the Smart-App can't find the micro inverter to be added?**

Check the following points:

- Check if the WiFi status indicator of the micro inverter is in the "Blue Flashing" state.
- Check if the Bluetooth function of your smart device is turned on.
- Check if the signal of the wireless network is good.

If all these is the case and the inverter is still not found, press the red reset button for more than 5 seconds to reset. After the WiFi indicator light flashes blue again, use "Smart Life " App to reconfigure the network.

**2. WHAT TO DO if I have multiple micro inverters to configure?**

Install all micro inverters properly and make them work normally to generate power, and then operate according to the configuration and using steps. The App can search all inverters to be added at one time and configure them at one time.

**3. WHAT TO DO if the SSID of my WiFi network or the password is changed?**

Please reconfigure the inverter according to the configuration and using steps.

**4. WHAT TO DO if the WiFi status indicator of the inverter goes out, but the device displayed on the app is not online?**

This means that you can connect to the wireless network device, but you can't connect to the cloud server. It means that your wireless network device can't connect to the Internet. Make sure that your Internet is working properly.

**5. The installation site of the inverter is temporarily not equipped with a router and no WiFi signal?**

- How does App connect the inverter and detect if the inverter is working properly?

- You can use an idle smartphone to open the WiFi sharing of mobile phone signal hotspot for connection, and reconfigure the network connection after installing the router.

## **6. There are multiple WiFi signals around. Can we connect different WiFi signals?**

No, the WiFi connected of the micro inverter and the smart phone must be consistent before the network can be configured.

## **7. Can App configure the micro inverter in different places? Can I view data in different places?**

You can't configure the micro inverter in different places, but you can view data in different places. The inverter uploads the latest status data to the cloud server every 3-5 minute.

## **8. After checking that there is no problem, the App still cannot find the micro inverter.**

- Press and hold the inverter red button for more than 5 seconds to reset the inverter.
- After the WiFi indicator flashes again, use App to reconfigure the network.

## **9. WHAT TO DO if I want to monitor the same inverter on two or more smart devices?**

You can share the inverter with another phone using the share device feature.

## **10. Will App data be saved?**

Yes, App data will be stored on cloud server. After the network is successfully configured, you can view the data at any time and place.

## **11. The inverter cannot be connected to the app at night?**

At night, because the solar panel does not generate power, the micro inverter does not have any power input, so it will offline and it is impossible

to re-configure the network at night.

## ACCESSORIES LIST

1. Operating instructions \*1
2. Grid connected power cord \*1
3. 8mm diameter, 28mm long hex socket screw+flat washer+spring washer+nut \*2
4. 5mm diameter, 13mm long hex socket screw+nut \*2(600W/800W)  
4mm diameter, 8mm long hex socket screw \*1(1200W)
5. WiFi antenna \*1

**Manufacturer:** Shanghaimuxinmuyeyouxiangongsi

**Address:** Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, shanghai 200000 CN.

**Imported to AUS:** SIHAO PTY LTD, 1 ROKEVA STREETEASTWOOD NSW 2122 Australia

**Imported to USA:** Sanven Technology Ltd., Suite 250, 9166 Anaheim Place, Rancho Cucamonga, CA 91730

<b>EC</b>	<b>REP</b>
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E-CrossStu GmbH  
Mainzer Landstr.69, 60329 Frankfurt am Main.

<b>UK</b>	<b>REP</b>
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