

WARNING!DANGER! 1

Read user manual before operating this equipment, because failure could result in serious injuries, property damage and / or electrical shock.

- The inverter ONLY works when it is connected to the grid. If the unit is unplugged, there is no feed-in. There is no voltage at the output and the indicator lights up red.
- The maximum voltage and wattage of all connected PV panels must NOT exceed the max.voltage and wattage of the inverter, otherwise the unit will be damaged. Please refer to the techni cal data.
- Before maintenance work, the PV panels and all connections must be disconnected from unit.
- The unit may only be opened by qualified personnel.
- The current generated by the PV modules cannot be switched off. To do this,
 disconnect the panels from the inverter. Otherwise there is a danger of electric shock.
- Do NOT remove the lid. Servicing must be performed by qualified service personnel.
- Protect the inverter from direct sunlight and rain, e.g. by mounting it behind a PV panel.
- Do NOT cover the unit as it may overheat.
- NOTE: Unused connections must always be closed, otherwise water may ente and a shortcircuit may occur.















Photovoltaic people have been working hard!



Input Data (DC, PV)	Model	300W/350W/400W	Model	600W/700W/800W
Number of Input Mc4 Connector 1 sets	Input Data (DC, PV)		Input Data (DC, PV)	
MPFT Voltage Range		1 sets	•	2 sets
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Output Data(AC) Output Data(AC) Single-Phase Grid Type 120V8230V Rated Output Power 300W 350W 400W Maximum Output Power 300W 350W 400W Nominal Output Current ©120VAC-2.5A/@230VAC-1.3A ©120VAC-2.9A/@230VAC-1.5A ©120VAC-2.9A/@230VAC-1.5A ©120VAC-2.9A/@230VAC-1.5A ©120VAC-2.9A/@230VAC-1.5A ©120VAC-2.9A/@230VAC-1.5A ©120VAC-2.9A/@230VAC-3A Nominal Output Voltage 120VAC-2.9A/@230VAC-1.5A Default Output Voltage Range 0°120VAC-3B/@230VAC-180V-270V Nominal Output Frequency 50Hz / 60Hz Default Output Frequency Range 0°50Hz-48Hz-51Hz/@60Hz-58Hz-61Hz Power Factor >0.99% Total Harmonic Distortion THD <5%		300W 350W 400W		600W 700W 800W
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Rated Output Power 300W 350W 400W Rated Output Power 600W 700W 800W Maximum Output Power 300W 350W 400W Maximum Output Power 600W 700W 800W 600W 700W 700W 800W 600W 700W 700W 700W 700W 700W 700W 700W	Output Data(AC)		Output Data(AC)	
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Nominal Output Current @120VAC:2.5A/@230VAC:1.3A Nominal Output Current @120VAC:3.6A/@230VAC:2.6A BY (20VAC:2.3A/@230VAC:1.7A @120VAC:3.3A/@230VAC:1.7A @120VAC:5.6A/@230VAC:3.4A Nominal Output Voltage 120VAC:3.3A/@230VAC:160V / 220VAC Default Output Voltage Range @120VAC:3.0A/@230VAC:180V-270V Nominal Output Frequency 50Hz / 60Hz Nominal Output Frequency 50Hz / 60Hz Default Output Frequency Range @50Hz248Hz-51Hz/@60Hz:58Hz-61Hz Power Factor >0.99% Total Harmonic Distortion THD - 5% Maximum Units per Branch @120VAC:5.Mx/@230VAC:10units Efficiency 95% Peak Efficiency 95% Nominal MPPT Efficiency 95.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 95.5% Nominal MPPT Efficiency 95.5% Nominal MPPT Efficiency 95.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal Outpu	Rated Output Power	300W 350W 400W	Rated Output Power	600W 700W 800W
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Default Output Voltage Range © 120VAC:80V-160V /@ 230VAC:180V-270V Nominal Output Frequency 50Hz / 60Hz Default Output Frequency Range © 50Hz / 60Hz Default Output Frequency Soltz / 60Hz Nominal Output Frequency Soltz / 60Hz Maximum Units per Branch © 120VAC:30V1-60Hz Maximum Units per Branch © 120VAC:30V1-60Hz Maximum Units per Branch © 120VAC:30V1-61Hz Maximum Units per Branch © 12		@120VAC:3.3A/@230VAC:1.7A		@120VAC:6.6A/@230VAC:3.4A
Nominal Output Frequency S0Hz / 60Hz Default Output Frequency Range @50Hz / 80Hz - 51Hz / @60Hz:58Hz - 61Hz Power Factor > 0.99% Total Harmonic Distortion THD < 5% Maximum Units per Branch @120VAC:5units / @230VAC: 10units Efficiency Peak Efficiency 95% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range @50Hz / 60Hz Maximum Units per Branch @120VAC:3units / @230VAC: 6units Efficiency Peak Efficiency 95% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal Output Frequency Range 99.5% Maximum Units per Branch @120VAC:3units / @230VAC: 6units Efficiency Peak Efficiency 95% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Maximum Units per Branch @120VAC:3units / @230VAC: 6units Efficiency Peak Efficiency 95% Nominal MPPT Efficiency 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal Output Frequency Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal Output Frequency Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Frequency Range 99.5% Nominal Output Range 99.5% Nominal Output Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Range 99.5% Nominal MPPT Efficiency 99.5% Nominal Output Range 99.5% Nominal MPT Ef	Nominal Output Voltage	120VAC /230VAC	Nominal Output Voltage	120VAC /230VAC
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Maximum Units per Branch@120VAC:Sunits /@230VAC: 10unitsMaximum Units per Branch@120VAC:3units /@230VAC: 6unitsEfficiencyEfficiencyEfficiencyPeak Efficiency95%Peak Efficiency95%Nominal MPPT Efficiency99.5%Nominal MPPT Efficiency99.5%Night Power Consumption<1w	Power Factor	>0.99%	Power Factor	>0.99%
Efficiency Peak Efficiency Nominal MPPT Efficiency Night Power Consumption Mechanical Data Operating Ambient Temperature Range Operating Ambient Temperature Range -40°C to +65°C Storage Temperature Range Oimensions(W*H *D) Veight Max Current of AC Bus Cable Waterproof Grade Peak Efficiency Peak Effic	Total Harmonic Distortion	THD <5%	Total Harmonic Distortion	THD <5%
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Storage Temperature Range -40°C to +85C Dimensions(W*H *D) 240mmx185mm x 45mm (not include connectors and cable) Weight 1.6kg Max Current of AC Bus Cable 20A Waterproof Grade 1P66 Storage Temperature Range -40°C to +85C Dimensions(W*H *D) 310mmx185mm x 45mm (not include connectors and cable) Weight 2kg Max Current of AC Bus Cable 20A Waterproof Grade 1P66	Mechanical Data		Mechanical Data	
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(not include connectors and cable)(not include connectors and cable)Weight1.6kgWeight2kgMax Current of AC Bus Cable20AMax Current of AC Bus Cable20AWaterproof GradeIP66Waterproof GradeIP66	Storage Temperature Range	-40°C to +85C	Storage Temperature Range	-40°C to +85C
Weight1.6kgWeight2kgMax Current of AC Bus Cable20AMax Current of AC Bus Cable20AWaterproof GradeIP66Waterproof GradeIP66	Dimensions(W*H *D)	240mmx185mm x 45mm	Dimensions(W*H *D)	310mmx185mm x 45mm
Max Current of AC Bus Cable20AMax Current of AC Bus Cable20AWaterproof GradeIP66Waterproof GradeIP66		(not include connectors and cable)		(not include connectors and cable)
Waterproof Grade IP66 Waterproof Grade IP66	Weight	1.6kg	Weight	2kg
	Max Current of AC Bus Cable	20A	Max Current of AC Bus Cable	20A
Cooling Mode National Convention No Fore	Waterproof Grade	IP66	Waterproof Grade	IP66
Cooling Mode Natural Convection- No Fans Cooling Mode Natural Convection- No Fans	Cooling Mode	Natural Convection- No Fans	Cooling Mode	Natural Convection- No Fans
Other Features Other Features	Other Features		Other Features	
Communication WIFI(Cloud monitoring) Communication WIFI(Cloud monitoring)	Communication	WIFI(Cloud monitoring)	Communication	WIFI(Cloud monitoring)
Transformer Design High Frequency Transformers, Galvanically Isolated Transformer Design High Frequency Transformers, Galvanically Isolated	Transformer Design	High Frequency Transformers, Galvanically Isolated	Transformer Design	High Frequency Transformers,Galvanically Isolated
Integrated Ground Equipment ground is provided by the PE in the AC cable. Integrated Ground Equipment ground is provided by the PE in the AC cable. Integrated Ground Integr	Integrated Ground	Equipment ground is provided by the PE in the AC cable.	Integrated Ground	Equipment ground is provided by the PE in the AC cable.
No additional ground is required.	integrated Ground		integrated Ground	-
Isolated Island Protection, Voltage Protection, Isolated Island Protection, Voltage Protection,	Protection Functions	Isolated Island Protection, Voltage Protection,		
		·	Protection Functions	
Temperature Protection, Current Protection, etc. Temperature Protection, Current Protection, etc.		Temperature Protection, Current Protection, etc.		Temperature Protection, Current Protection, etc.
Design Compliance EN IEC61000-3-2:2019+A1:2021, Design Compliance EN GROUP AND ADDRESS AND	Design Compliance	EN IEC61000-3-2:2019+A1:2021,	Design Compliance	EN IEC61000-3-2:2019+A1:2021,
EN 61000-3-3:2013+A1:2019+A2:2021,			besign complained	
EN IEC55014-2:2021,EN IEC55014-2:2021, EN IEC55014-2:2021,EN IEC55014-2:2021,		EN IEC55014-2:2021,EN IEC55014-2:2021,		EN IEC55014-2:2021,EN IEC55014-2:2021,

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Installation Schematic

Input Data (DC, PV)

Number of Input MC4 Connector	4 sets
MPPT Voltage Range	22V-48V
Operation Voltage Range	18V-60V
Maximum Input Voltage	60V
Startup Voltage	22V
Maximum Input Power	1200W 1400W 1600W 2000W
Maximum input Current	12A*4 14A*4 15A*4 16A*4

Output Data(AC)

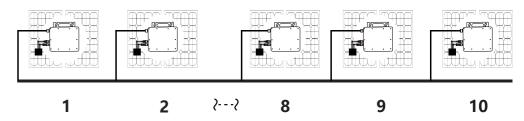
Single-Phase Grid Type	120V&230V
Rated Output Power	1200W 1400W 1600W 2000W
Maximum Output Power	1200W 1400W 1600W 2000W
Nominal Output Current	@120VAC:10A/@230VAC:5.2A @120VAC:11.6A/@230VAC:6A @120VAC:13.3A/@230VAC:6.9A @120VAC:16.6/@230VAC:8.6A
Nominal Output Voltage	120VAC /230VAC
Default Output Voltage Range	@120VAC:80V-160V /@230VAC:180V-270V
Nominal Output Frequency	50Hz / 60Hz
Default Output Frequency Range	@50Hz:48Hz-51Hz/@60Hz:58Hz-61Hz
Power Factor	>0.99%
Total Harmonic Distortion	THD <5%
Maximum Units per Branch	1200W@120VAC:2units /@230VAC:3units(AC cable 3*1.5mm²)
Efficiency	1400W/1600@120VAC:1units /@230VAC:2units(AC cable 3*1.5mm 2000W@120VAC:1units /@230VAC:1units(AC cable 3*1.5mm²)
Peak Efficiency	95%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	<1w

Mechanical Data

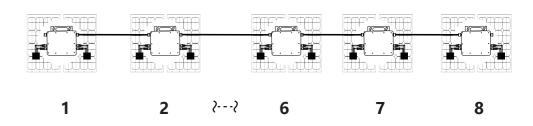
Operating Ambient Temperature Range	-40°C to +65°C
Storage Temperature Range	-40°C to +85C
Dimensions(W*H *D)	255mmx340mm x 45mm
	(not include connectors and cable)
Weight	3.65kg
Max Current of AC Bus Cable	20A
Waterproof Grade	IP66
Cooling Mode	Natural Convection- No Fans

Waterproof Grade	1P66
Cooling Mode	Natural Convection- No Fans
Other Features	
Communication	WIFI(Cloud monitoring)
Transformer Design	High Frequency Transformers, Galvanically Isolated
Integrated Ground	Equipment ground is provided by the PE in the AC cable.
integrated Ground	No additional ground is required.
	Isolated Island Protection, Voltage Protection,
Protection Functions	Frequency Protection,
	Temperature Protection, Current Protection, etc.
Design Compliance	EN IEC61000-3-2:2019+A1:2021,
Design Compliance	EN 61000-3-3:2013+A1:2019+A2:2021,
	EN IEC55014-2:2021,EN IEC55014-2:2021,

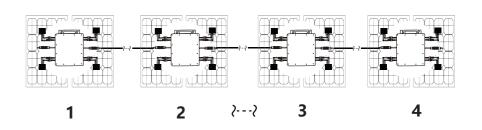
Single phase connection method of micro inverter



- 1.@Single-Phase 230V grid Maximum 10 units 400W Microinverters per branch.
- 2.The max DC input power of each inverter is 400W(the PV module max output power is 1x400W)
- 3. The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.



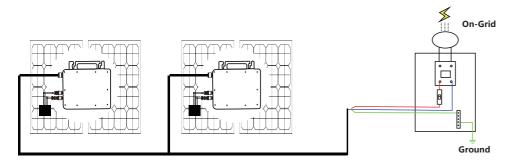
- 1. @Single-Phase 230V gridMaximum 8 units 600W Microinverters per branch.
- 2.The max DC input power of each inverter is 600W(the PV module max output power is 2x300W)
- 3. The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.



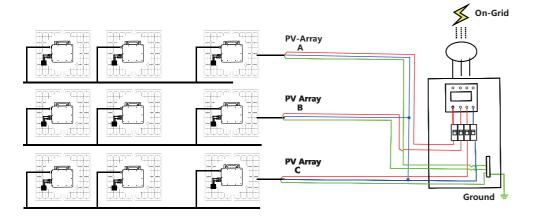
- 1.@Single-Phase 230V gridMaximum 4 units 1600W Microinverters per branch.
- 2.The max DC input power of each inverter is 1600W(the PV module max output power is 4x400W)
- 3. The VOC of PV modules should not be greater than the max DC input voltage of Microinverters.

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Single phase connection method of micro inverter

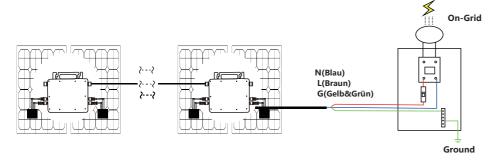


Three phase connection method of 400W micro inverter

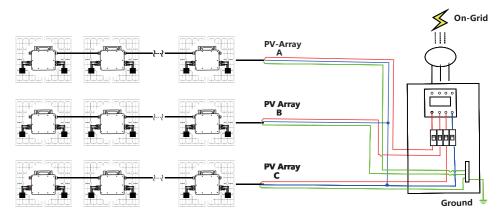


Wiring Schematic

Single phase connection method of micro inverter

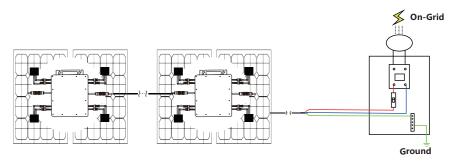


Three phase connection method of micro inverter

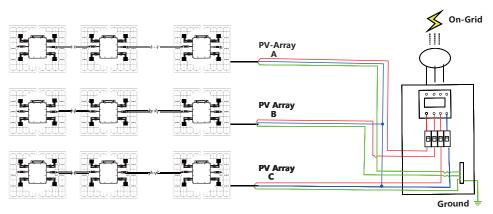


Wiring Schematic

Single phase connection method of micro inverter



Three phase connection method of micro inverter



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Micro Inverter 300/350/400/600/800/1200/1400/1600

WIFI Cloud Monitoring User Manual



READ ME FIRST

** User manual subject to change without notice**

- ·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 inverterand make it work normally
- ·Asmart device(smartphone or tablet) with Bluetooth function and Android or IS system
- and a wireless network device eq.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

Hardware Description



WIFI Status LED Display

- 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.

Preparation Before Configuration And Use

- 1. Install the micro inverter correctly and make it work normally to generate power.
- 2.Download and install the or Smart Life app by searching for it in the corresponding Android or Apple app store.
- 3.Turn on the Bluetooth function of your smart device
- 4.Check that your wireless network device (such as wireless router) is working properly and connected to the Internet.











Configuration Steps Of WIFI Cloud Monitoring







Download in mobile application: smartlife or direct code scanning

Register personal account

Restore factory se ttings 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

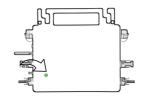
Enter your home WIFI account information password

8

Click Next to install and modify the name and account freely



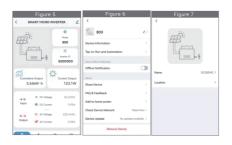
The interface can control the system switch normally. The connection is successful



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

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).
- 2. 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).
- 2. 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 toremove 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).
- 2. Click the button in the upper right to enter the device setting page (Figure 6).
- 3. Click the "Share Device" item to enter the device sharing page (Figure 10), click 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.

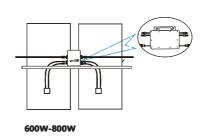


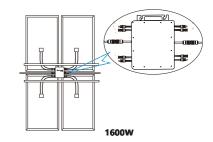


AC-Hauptkabel

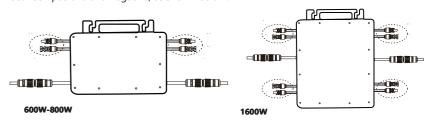


- L-Phasenleiter (Braun)
- G- Schutzleiter (Gelb & Grun)
- N-Nulleiter (Blau)
- 1. The installation process of fixing inverter to PV bracket with mounting screws is as follows:

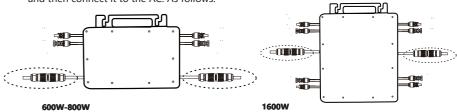




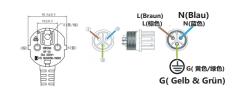
2. Connect the DC of PV to the inverter, and pay attention to distinguish between positive and negative, as shown below:



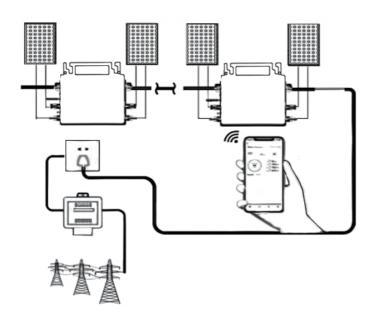
3. Open the waterproof cover on the AC output side of the micro inverter, and then connect it to the AC. As follows:



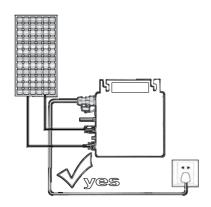
- 4. Repeat steps 1 to 3 to complete the installation of the micro inverter.
- 5. Connect multiple inverters through AC output cables.
- 6. The AC main cable is connected to the power grid.



9-14 10-14

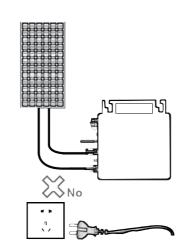


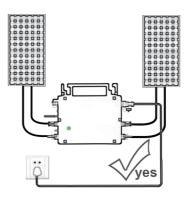
Connection diagram



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

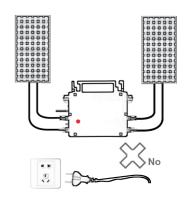
Only the solar panel is connected. When the mains AC is not connected, the red light on the inverter surface is on, and the instrument and machine do not work normally

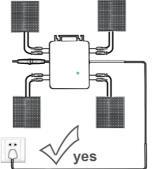




Normal working conditions of the inverter: the 22-50V DC voltage of the solar panel must be connected, and the AC voltage must be connected at the same time, and the indicator light is green

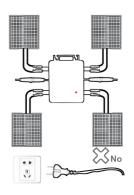
Only the solar panel is connected. When the mains AC is not connected, the red light on the inverter surface is on, and the instrument and machine do not work normally



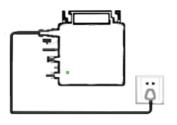


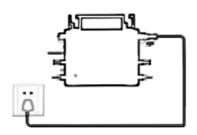
Normal working conditions of the inverter: the 22-50V DC voltage of the solar panel must be connected, and the AC voltage must be connected at the same time, and the indicator light is green

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



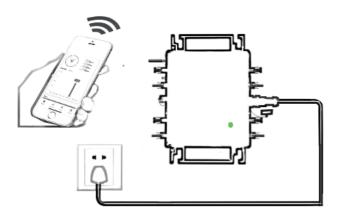
11-14





300W/350W/400W

600W/700W/800W



1200W/1400W/1800W/2800W

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 indicate that the connection is normal.

Questions & Answers

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 on site. Can we connect with 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.