

Green Energy For All



Micro Inverter User's Manual

TPS1600MB

TPS2000MB

Ver 1.01



Smart Life



About Micro Inverters

The system consists of an array of micro-inverters that convert direct current (DC) to alternating current (AC) and feed it into the public grid. The system is designed to install one micro-inverter for every two PV modules. Each micro-inverter works independently, ensuring that each PV module maximum power generation. This setup enables the user to directly control the efficiency of the individual PV module arrays, increasing the flexibility and availability of the system dependability.

About the manual

This manual contains important instructions for the TPS1600MB and TPS2000MB micro inverter, which must be read thoroughly before installing or commissioning the device. For safety reasons, only qualified technicians who have received training or demonstrated competence should install and maintain this device under the guidance of this document.

Other information

Product information is subject to change without notice. This user manual will be updated frequently. Please contact sales for the latest version.

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1. Important Notes

1.1 Product Range

This manual introduces the assembly, installation, commissioning, maintenance and fault finding of the following types of micro inverters:

- TPS1600MB
- TPS2000MB

*Notes: "1600" meas 1600W




"2000" meas 2000W

1.2 Target users

For safety reasons, only qualified technicians who have received training or demonstrated competence should install and maintain this microinverter under the guidance of this document.

1.3 symbols used

The safety symbols in this user manual are shown below.

legend	illustrate
	Indicates a hazardous situation that could result in a hazard of fatal electric shock, other serious bodily injury, or a fire hazard.
	Instructions are instructions that must be fully understood and followed to avoid potential safety hazards, including equipment damage or personal injury.
	Indicates that the described action must not be performed. The reader should stop, use it with caution, and fully understand the operation described before proceeding.







2. About safety

2.1 Important Safety Instructions

The TPS1600MB/TPS2000MB microinverters are designed and tested according to international safety requirements. But install and operate this Precautions must be taken when using micro inverters. Installers must read and follow all instructions, precautions in this installation manual Dos and Warnings.

- | |
|--|
| <ul style="list-style-type: none"> • All operations, including transport, installation, start-up and maintenance, must be carried out by qualified and trained personnel. |
| <ul style="list-style-type: none"> • Before installation, inspect the equipment to ensure there is no shipping or handling damage that could affect insulation integrity or safety clearances. Choose the installation location carefully and adhere to the specified cooling requirements. Unauthorized removal of necessary protective devices, improper use, and incorrect installation and operation can result in serious safety and electric shock hazards or equipment damage. |
| <ul style="list-style-type: none"> • Before connecting the microinverter to the distribution grid, please contact the local distribution grid company to obtain the appropriate approvals. This connection should only be made by a qualified technician. It is the installer's responsibility to provide an external disconnect switch and overcurrent protection device (OCPD). |
| <ul style="list-style-type: none"> • Only one PV module can be connected to one input of the micro-inverter. Do not connect batteries or other power sources. Microinverters should only be used after observing and applying all technical characteristics. |
| <ul style="list-style-type: none"> • Do not install the device in harsh environments such as flammable, explosive, corrosive, extremely hot or cold, and humid. Do not use the device when the safety device is not working or disabled. |
| <ul style="list-style-type: none"> • Always use personal protective equipment including gloves and goggles when installing. |
| <ul style="list-style-type: none"> • Notify the manufacturer of non-standard installation conditions. |
| <ul style="list-style-type: none"> • Do not use the device if any abnormality is observed during operation. Avoid temporary repairs. |
| <ul style="list-style-type: none"> • All repairs should be performed using only qualified spare parts, which must be installed in accordance with their intended use and by a licensed contractor or authorized service representative. |
| <ul style="list-style-type: none"> • Any liability arising from commercial components rests with their respective manufacturers. |
| <ul style="list-style-type: none"> • Exercise extreme caution whenever the microinverter is disconnected from the public network, as some components may retain enough charge to create an electric shock hazard. Before touching any part of the microinverter, ensure that surfaces and equipment are at a safe touch temperature and voltage potential before proceeding. |
| <ul style="list-style-type: none"> • We are not responsible for damages caused by errors or improper operation. |
| <ul style="list-style-type: none"> • Electrical installation and maintenance should be performed by a licensed electrician and should follow local wiring regulations. |

2.2 Symbol Description

Symbol	Usage
	Recycle To comply with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment and its implementation as national law, electrical equipment that has reached the end of its life must be separately collected and returned to an approved recycling facility. Any device no longer required must be returned to an authorized dealer or approved collection and recycling facility.
	Caution Do not come within 8 inches of the microinverter for any length of time while it is in operation.
	Danger of high voltages Danger to life due to high voltage in the microinverter.
	Beware of hot surface The microinverter can become hot while operating. Avoid contact with metal surfaces while operating.
	CE mark The microinverter complies with the requirements of the Low Voltage Directive for the European Union.
	Read manual first Please read the installation manual before installation, operation and maintenance.

2.3 Radio Interference Statement

This microinverter has been tested and found to comply with the limits for CE EMC, which provides reasonable protection against harmful energy. However, if not installed according to the instructions, the microinverter may cause harmful interference to radio equipment. There is no guarantee that such interference will not occur during a particular installation.

To confirm that the radio or television reception is affected by interference from this equipment, turn the equipment off and on to test it. If this equipment causes harmful interference to the radio or television equipment, try to correct the interference through one or more of the following measures

- 1) Relocate the receiving antenna.
- 2) Increase the separation between the microinverter and the receiving antenna.
- 3) Place a shield between the microinverter and the receiving antenna.
- 4) Contact your dealer or an experienced radio/TV technician for help.

3. About Products

3.1 About The 4-in-1 Unit

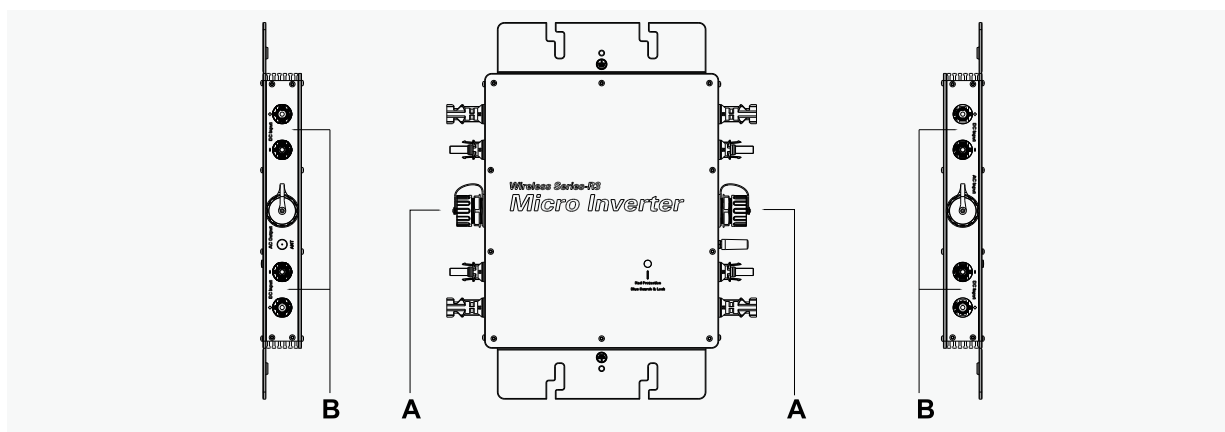
“4-in-1 cell microinverter” with ultra-wide DC input operating voltage range(22~60 V) and low start-up voltage (22 V only).

4-in-1 Micro Inverter TPS1600MB/TPS2000MB is a reliable solution for odd panel PV systems and offers high CEC weighted efficiency – 92.50% in 2015 (92.70% peak efficiency).

3.2 Highlights

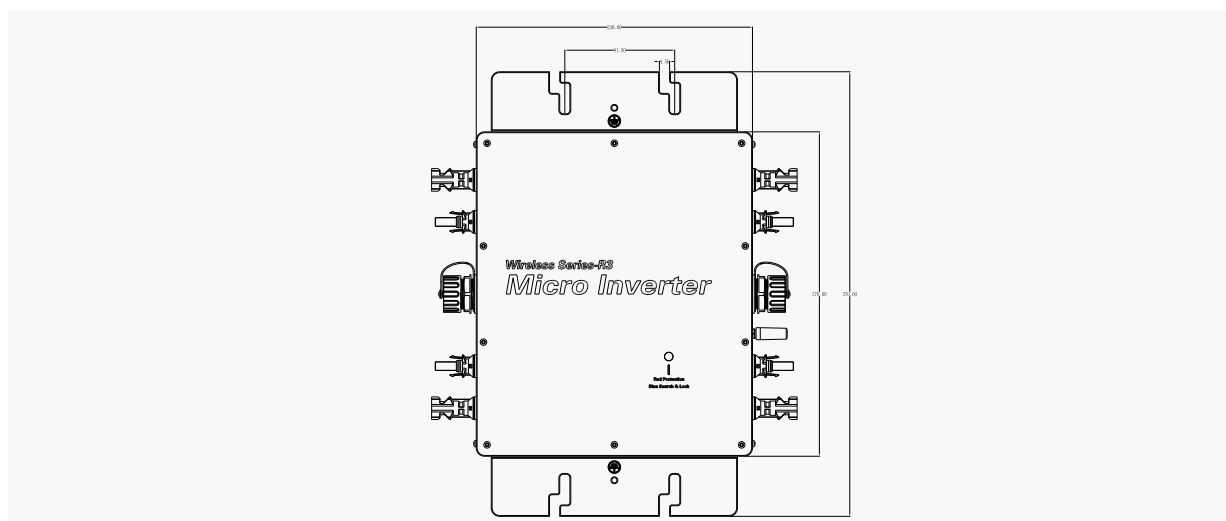
- The maximum output power can reach 1600W/2000W.
- Peak efficiency 92.70%. The CEC weighted efficiency is 92.50%.
- Static MPPT efficiency 99.80%. The efficiency of dynamic MPPT on cloudy days is 99.76%.
- Power factor (adjustable) 0.8 lead...0.8 lag.
- External antenna for stronger communication with WiFi sources.
- High reliability: NEMA 3R (IP65) enclosure. 6000 V surge protection.

3.3 Terminals Introduction



Object	Description
A	AC connector (female)
B	DC connection

3.4 Dimension (mm)



4. About Function

4.1 Work Mode

Normal: In this mode, the micro inverter operates normally, converting DC to AC, supporting household loads and feeding into the public grid.

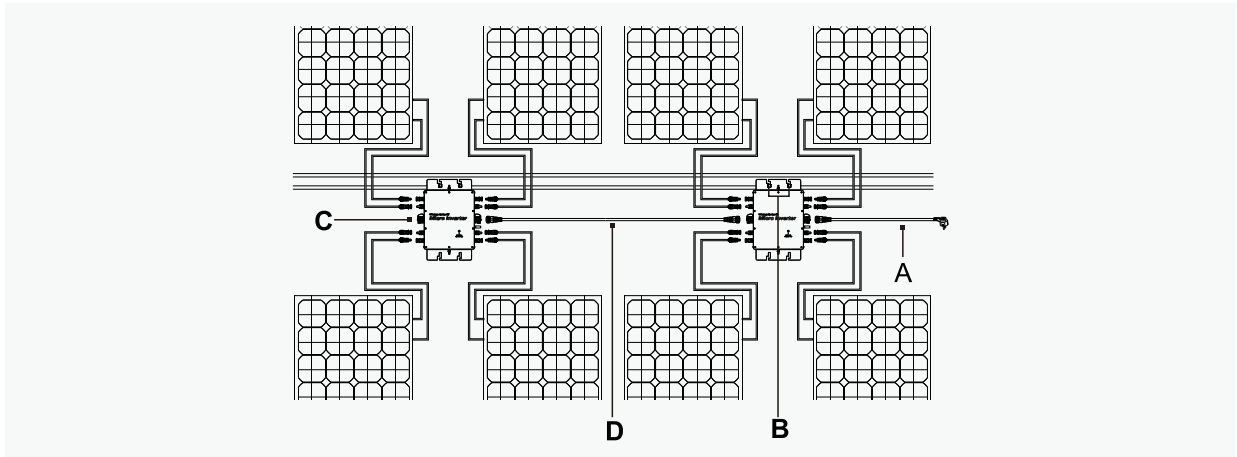
Zero Output Control: In this mode, the microinverter's power generation is limited based on the current household load, and no additional power goes into the public grid.

Standby: There are several situations where the microinverter will be in standby mode:

- The current situation contradicts the operational requirements of microinverters.
- In zero outlet control mode, no household load or outlet control value is set to "0".

5. About installation

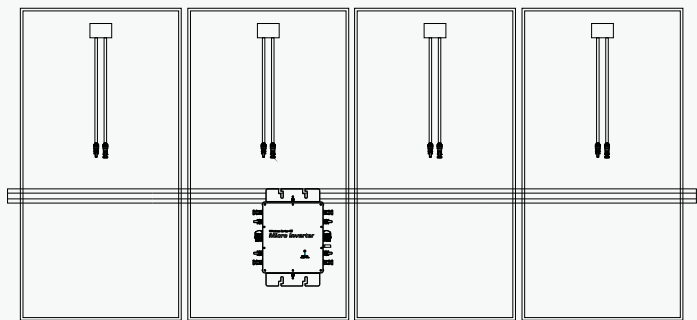
5.1 Accessories



Object	Description
A	AC grid-connected cable (3 meters)
B	8×20mm ² Screws
C	AC female end cap
*D	AC handshake cable
*Note: The AC handshake cable is not included in the accessories and needs to be purchased separately.	

5.2 Installation Precautions

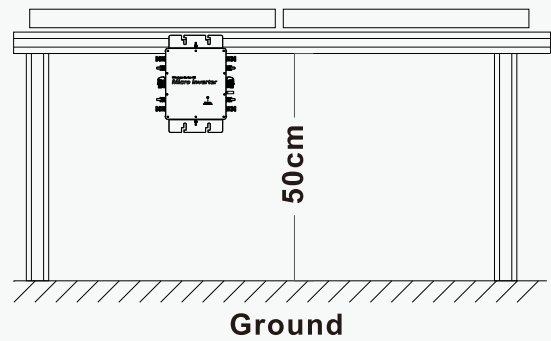
Please install the inverter and all DC connectors under the PV modules to avoid rain, snow, UV rays and direct sunlight. Leave at least 5 cm of space around the microinverter housing to ensure ventilation and heat dissipation.*Note: For some countries, local grid regulations (eg UKG98/99) are required.



The back of the photovoltaic panel

5.3 Required Space Distance

If the micro-inverter is installed on a concrete roof or steel house on top, their communication with the WIFI router may be slightly affected. Under such installation conditions, the microinverter is best installed 50cm above the roof. Otherwise, it may be necessary to install a WIFI router nearby. The router ensures the quality of communication with the micro-inverter.



5.4 Grounding Considerations

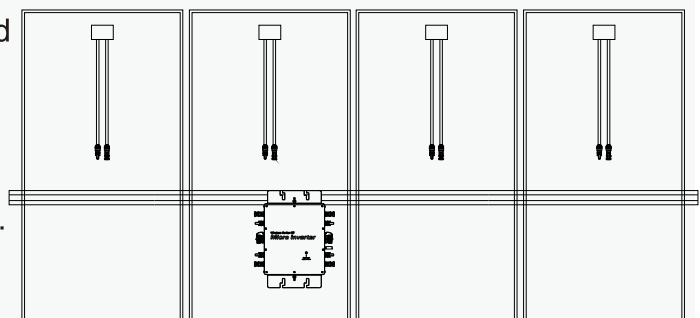
This microinverter is a Class I device with a basic isolation transformer and this micro inverter must be grounded. There is a ground wire inside the AC cable, so you can usually use this wire directly to ground. If the utility has any special requirements, grounding can be done by attaching the mounting brackets to the rack.

5.5 Preparation

Installation of this equipment is carried out based on the system design and the place in which the equipment is installed.

- Installation must be carried out with the equipment disconnected from the grid (power disconnect switch on) and with the PV modules shaded or isolated.
- Refer to the technical documentation to ensure that the environmental conditions meet the requirements of the micro-inverter (waterproof rating, temperature, etc.)
- To avoid power de-rating due to an increase in the internal temperature of the microinverter, do not expose it to direct sunlight.
- To avoid overheating, always ensure that the airflow around the microinverter is not obstructed.
- Do not install where gas or flammable substances may be present.
- Avoid electromagnetic interference that affects the normal operation of electronic equipment. When choosing an installation location, please observe the following conditions:

- Install only on structures specially designed for PV modules (provided by the installation technician)
- Install the inverter under the PV modules to ensure that it operates in a shaded or shaded environment. If this condition is not met, it may trigger the power drop of the inverter.



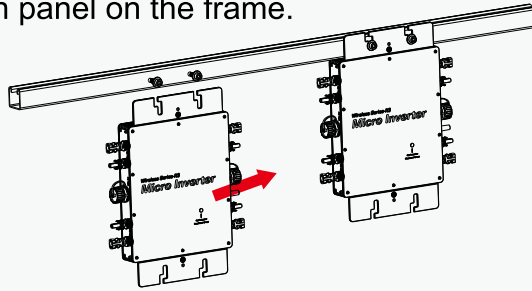
Microinverter installation position

5.6 Installation Steps

Step 1. Mount The Micro Inverter On The Rail

- A) Mark the approximate center of each panel on the frame.
B) Fasten the screws to the rail.

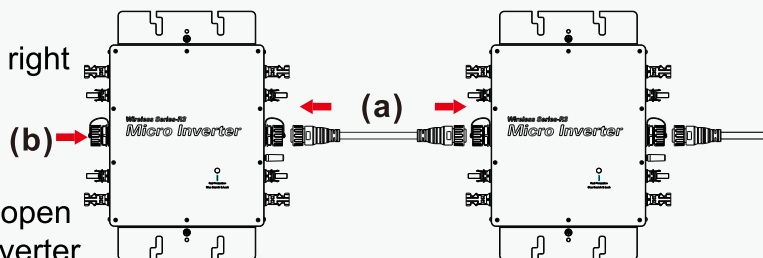
C) Hang the micro-inverter on the screw (as shown on the right shown) and tighten the screws. Silver cover for micro inverters should face the panel.



Step 2. AC Cable Connection Method of Micro Inverter

a) Connect the AC connecting cables to the AC connectors of the two micro-inverters as shown on the right to form a continuous AC branch circuit.

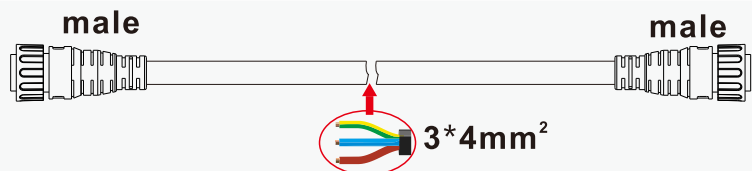
b) Install the AC end cap on the open AC connector of the last microinverter in the AC branch circuit.



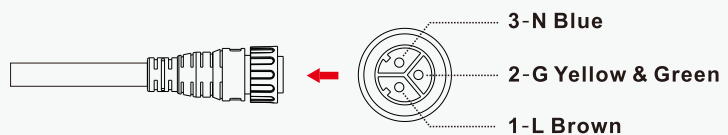
Step 3. Install The Cable

*AC Three-way Handshake Cable Diagram

A) Components of the AC handshake cable

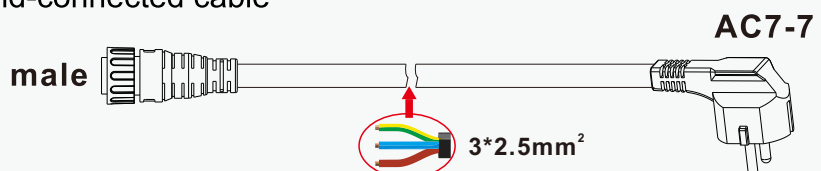


B) Schematic diagram of the hole position of the male terminal

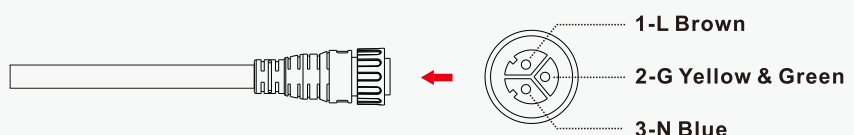


*AC Grid-connected Cable Diagram

A) Components of the grid-connected cable



B) Schematic diagram of female terminal hole position



*The maximum number of Ac grid-connected cables is 3 units.

B) Connect the male ends of the handshake cables to the two inverters in the lead to complete the circuit.

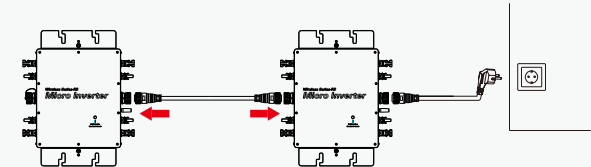
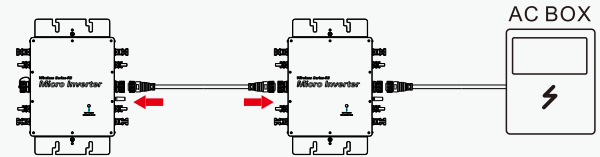
C) Connect the other end of the AC end cable to the distribution box and connect it to the local grid.

*In the same branch:

TPS1600MB @120V max. 3PCS;@230V max.6PCS;
TPS2000MB @120V max. 2PCS;@230V max.4PCS;

*Using the AC grid-connected cable, you can directly plug the cable into the socket for quick grid-connected use.

TPS1600MB max. 2PCS
TPS2000MB max. 1PCS



Step 4. Create An Installation Diagram

A) Tear off the QR code on the outer box of the micro inverter(The QR code label style is shown on the right).



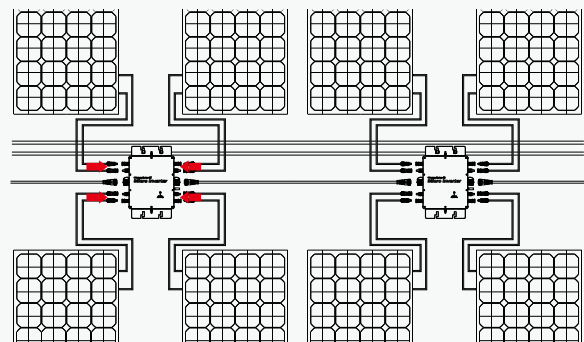
B) Paste the QR code label to the corresponding position on the installation drawing.

Inverter Type	Inverter Model	Inverter Installation Position				Inverter Orientation
		1	2	3	4	
1						
2						
3						
4						

Step 5. Connect The PV Modules

A) Install the PV modules on the micro-inverter above.

B) Connect the DC cables of the PV modules to DC input side of the microinverter.



Step 6. Power up the system

A) Open the AC circuit breaker for the branch circuit.

B) Open the main AC circuit breaker of the house. Your system will start generating electricity after about a 30s wait time.

Step 7. Set up the monitoring system

Please refer to the Quick Installation Guide of Cloud Intelligent Monitoring Platform to install and set up your monitoring system.

6. Monitoring System

6.1 APP Installation Requirements



You can search for "Smart Life" in Apple Store or Google StoreAPP or scan the QR code below to download and install the application.



China Ver



International Ver

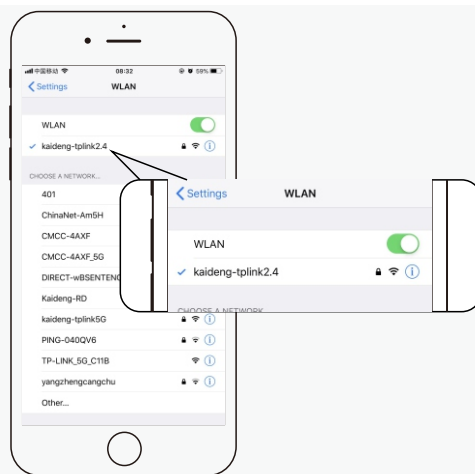
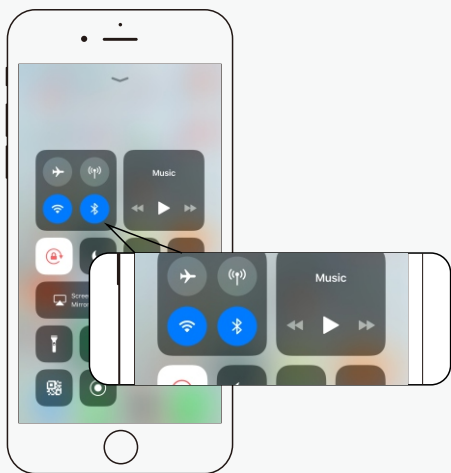


Scan the QR code and select the country
Download the "Smart Life" APP

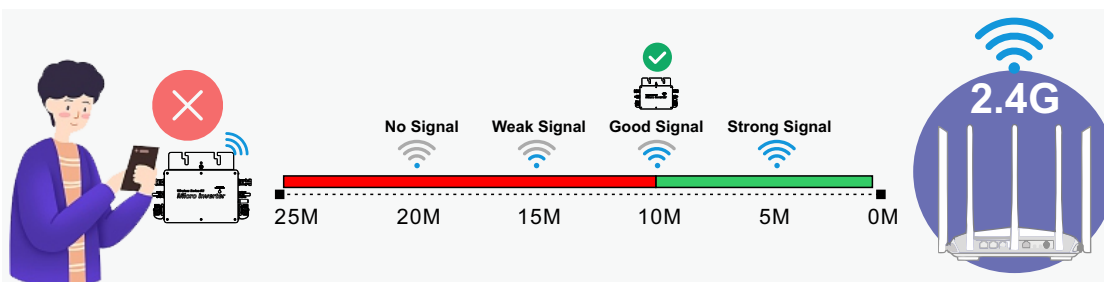


Mobile Phone Function Enabled

1. Please turn on the Bluetooth function. (Android system needs to turn on the positioning function);
2. Please use 2.4G Wi-Fi signal source;



Please use your mobile phone next to the inverter to check whether the 2.4G Wi-Fi signal source is good. If the Wi-Fi signal is poor, please adjust the location of the wireless router or add a WiFi signal booster to ensure that the inverter can operate in a good WiFi coverage environment.



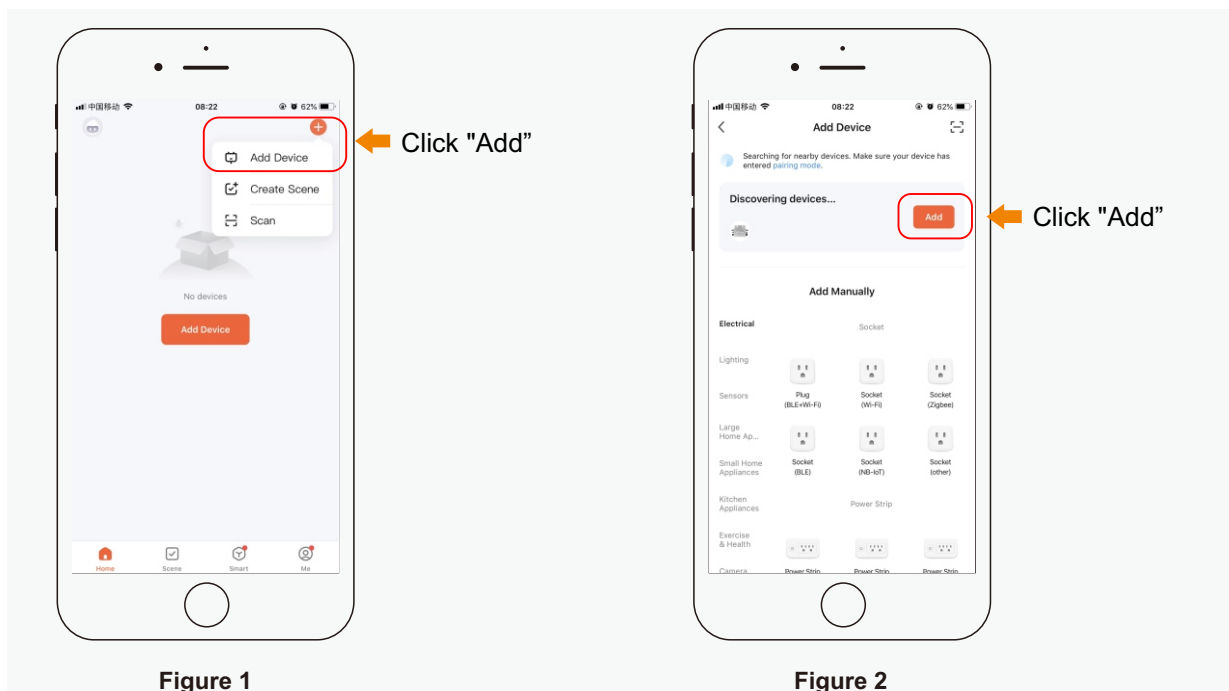
6.2 Add Equipment

Bluetooth Mode

Step 1. Open the Tuya APP, click "+" in the upper right corner and then click Add Device.

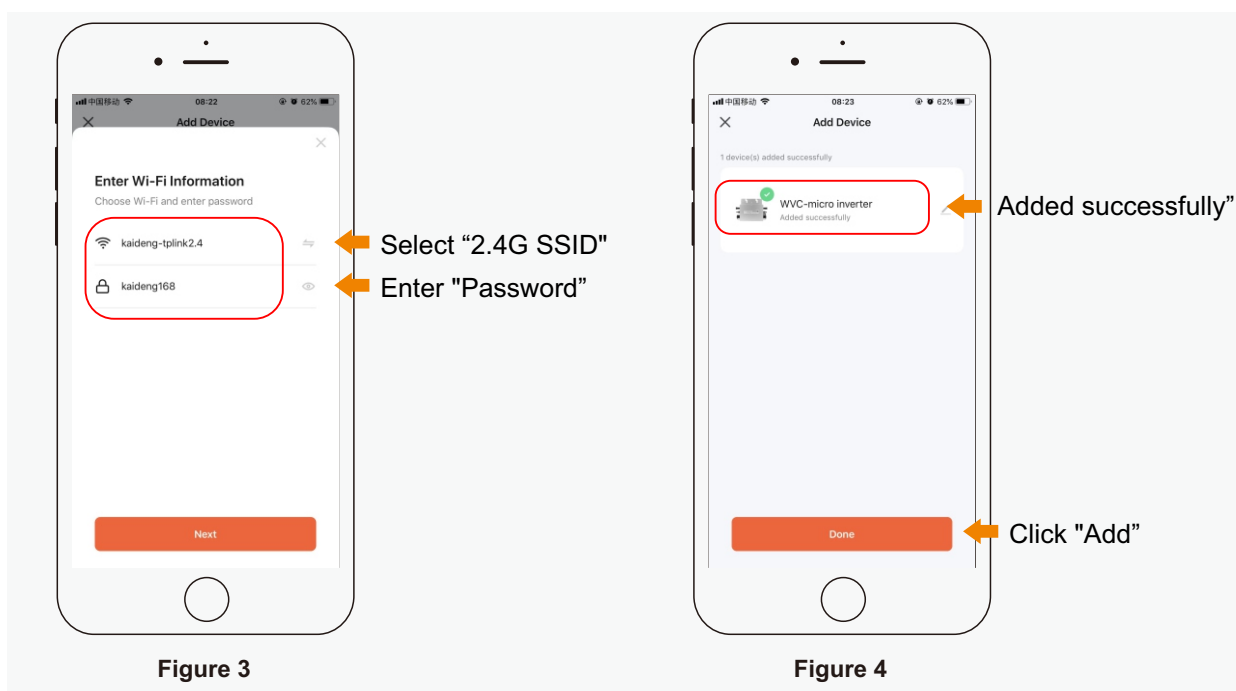
Step 2. When the device appears on the search page, click "Add", as shown in Figure 2

*If the device cannot be searched, please check whether the inverter is too far away from the mobile phone,



Step 3. When Figure 3 appears, please input the Wi-Fi password currently connected to the mobile phone and click Next.

Step 4. When the inverter completes network distribution and displays the interface as shown in Figure 4, click Finish.





Wi-Fi Mode

Step 1. Open APP, click "+" in the upper right corner, and then click Scan to add devices.

Step 2. When the device appears on the search page, click "Add", as shown in Figure 2

*If the device cannot be searched, please check whether the inverter is too far away from the mobile phone,

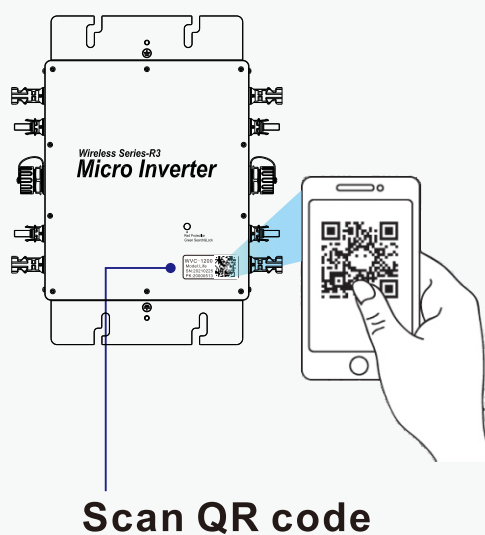
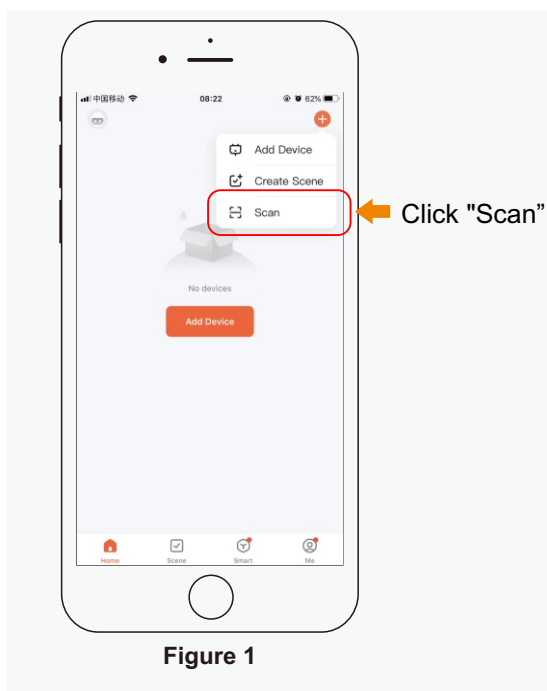
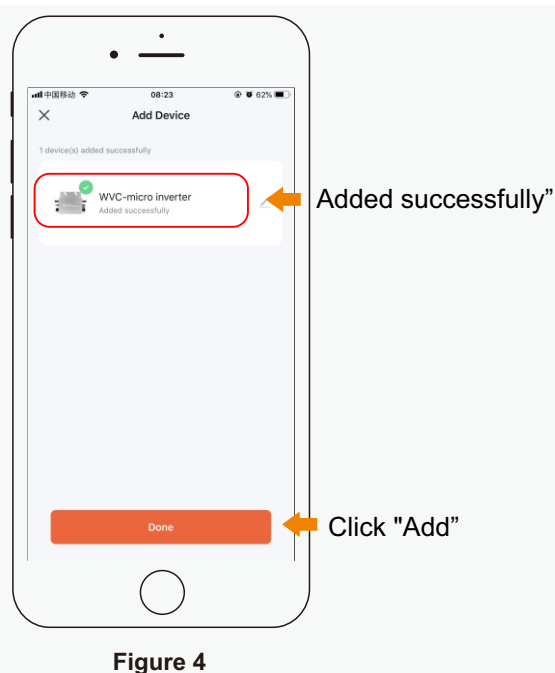
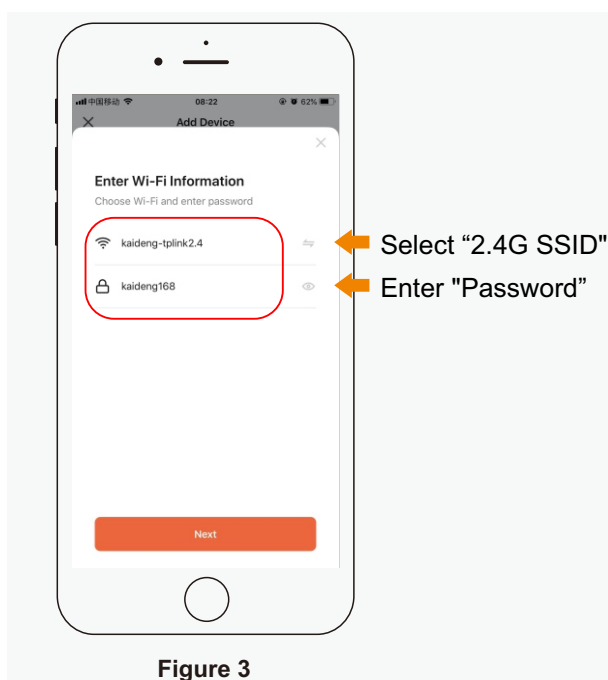


Figure 2

Step 3. When Figure 3 appears, please input the Wi-Fi password currently connected to the mobile phone and click Next.

Step 4. When the inverter completes network distribution and displays the interface as shown in Figure 4, click Finish.



6.3 APP Function



Main Interface



Device Network Status

Weather Conditions

AC Power (Click to View Detailed Function Display)

PV Power (Click to View Detailed Function Display)

Today (Click to View Detailed Function Display)

Control (Click to View Detailed Function Display)

Inverter Temperature

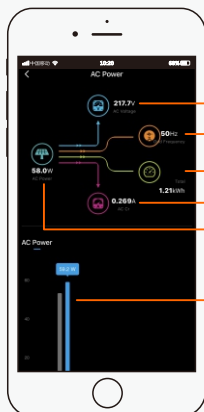
Power Generation/Power Display



Interface and Function



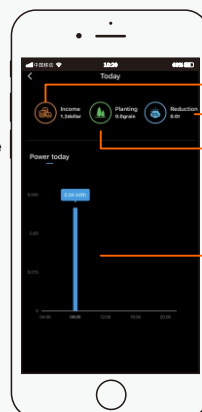
AC Power



Grid Voltage
Grid Frequency
Total Power Generation
Alternating Current
AC Power
AC Power Diagram



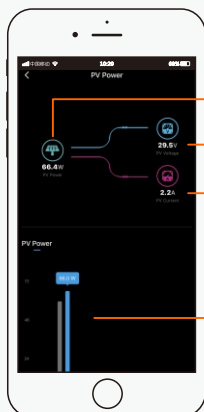
Cumulative



Income Statistics
Emission Reduction Statistics
Tree Planting Statistics
Power Generation Today



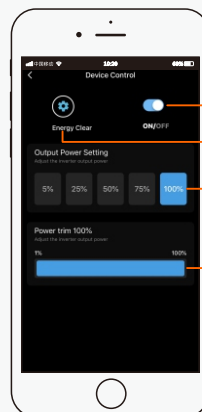
PV Power



PV Power
PV Voltage
PV Current
PV Power



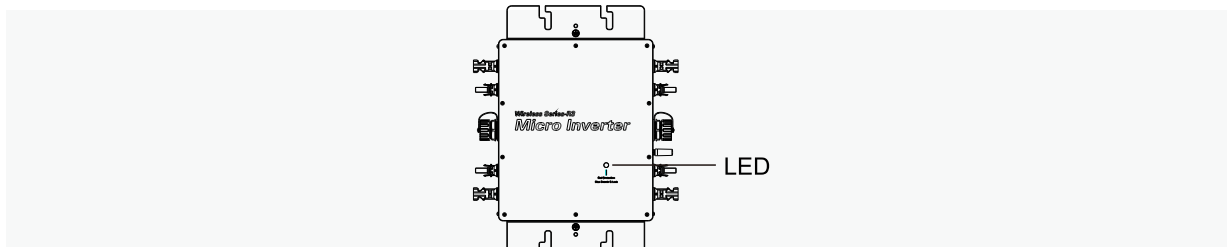
Control





Inverter On/Off
Energy Clear
Output Power Setting
Power Trim

6.4 Status LED

The red LED flashes (3s interval) when WiFi is not configured. When it is detected that the DC voltage and the AC voltage are normal, the startup state is entered.



(1)  When the inverter has been started and has been connected to the Internet, the status of the LED indicators is as follows
<ul style="list-style-type: none"> • When the inverter is not working: the red light is always on
<ul style="list-style-type: none"> • When the inverter is working: the blue light is flashing (MPPT is locked in a long light state)
(2)  When the inverter is not started and not connected to the grid, the LED indicator status is as follows
<ul style="list-style-type: none"> • When the inverter is not working: the red light flashes
<ul style="list-style-type: none"> • When the inverter is in working state: the blue light flashes (MPPT is locked for a long time), the red light flashes (3s interval)
(3) Other status
<ul style="list-style-type: none"> • When the DC voltage and AC voltage are normal, the red light is on/off: the inverter is damaged.
*Note: For more information, please refer to Cloud Intelligent Monitoring Platform.

6.5 Insulation Resistance Detection


There is a resistance sensor in the microinverter that measures the resistance between the output of the PV module and ground. If there is a problem with the insulation of the PV module, the DC wiring of the module or the connector, etc., it may cause the resistance between the module output and the ground to decrease.

If this resistance falls below a preset threshold, the microinverter will stop generating electricity and report this ground fault. This fault will continue until cleared on the cloud intelligent monitoring platform. The fault will continue until the micro-inverter restarts.

Note that this failure cannot be cleared if the cause of the failure still exists. If the fault persists, Please contact your salesperson for a solution.







6.6 On-site Inspection (Qualified Installers Only)

To troubleshoot an inoperable microinverter, follow the steps below.

1	Verify that the mains voltage and frequency are within the ranges shown in this microinverter technical data appendix.
2	Check the connection to the utility grid. Verify that utility power is present on the associated microinverter by disconnecting AC power, then DC power. Never disconnect the AC cable while the microinverter is working. Reconnect the DC module connector and watch the LED blink five times.
3	Check the AC branch circuits between all inverters and that each inverter is powered by the utility grid, as in the previous step.
4	Make sure all AC circuit breakers are working and closed.
5	Check the DC connection between the microinverter and the PV modules.
6	Verify that the PV module DC voltage is within the allowable range shown in the technical data appendix of this manual.
7	If the problem persists, please call Customer Support.
	Don't try to repair the microinverter. If troubleshooting fails, return it to the factory for replacement.

6.7 Routine Maintenance

1. Only authorized personnel are allowed to perform maintenance operations, and authorized personnel are responsible for reporting any abnormal conditions.
2. When performing maintenance, always use the personal protective equipment provided by your employer.
3. During normal operation, check that the environmental and logistical conditions are correct. Make sure that these conditions have not changed over time and that the equipment has not been exposed to severe weather conditions and not covered by foreign objects.
4. Do not use it if you find a problem, and restore it to the original state after the problem is solved.
5. Carry out annual inspection of each component, and use a vacuum cleaner or special brush to clean the equipment.

	Do not attempt to disassemble the inverter or perform any internal repairs! Unauthorized private repairs will void your warranty.
	The AC output harness (AC breakout cable on the microinverter) cannot be replaced. If the power cord is damaged, the device should be scrapped.
	Unless otherwise specified, maintenance operations must be performed with all connections to the AC side and DC side of the inverter disconnected.
	When cleaning, do not use wipes made of filamentous materials or corrosive products that may corrode equipment parts or generate static charges.
	Avoid temporary repairs. All repairs should be carried out using only original spare parts.
	A 40 A circuit breaker should be provided for each branch circuit, but no central protection unit is required.

6.8 Micro Inverter Replacement

a. How to disassemble the microinverter:

- Disconnect power from the AC branch circuit breaker.
- Remove the PV panel from the bracket and cover the panel.
- Use a meter to measure and make sure there is no current flowing in the DC wires between the panel and the microinverter.
- Use the DC disconnect tool to remove the DC connector.
- Use the AC disconnect tool to remove the AC connector.
- Unscrew the fixing screws on the top of the micro-inverter and remove the micro-inverter from the PV support.

b. How to replace the microinverter:

- Please note the SN of the new microinverter.
- Make sure the AC branch circuit breaker is turned off, then follow the microinverter installation steps to install the replacement unit.
- Enter the monitoring platform (if the customer has already registered the site online), enter the "Device" page, and re-add a new device according to the conventional method of adding an inverter to complete the replacement.

7. Retired

7.1 Retired

Disconnect the microinverter from the DC input and AC output. Remove all connecting cables from the micro inverter. Remove the microinverter from the frame.

Pack the micro-inverter in its original packaging, or use a 5kg carton that can be completely closed if the original packaging is no longer available.

7.2 Storage And Transportation

Uses suitable means to package and protect individual components for easy shipping and subsequent handling. Transportation of equipment, especially by road, must be carried out in a manner suitable for protecting components, especially electronic components, from violence, shock, moisture, vibration, etc. Properly dispose of packaged components to avoid accidental injury.


It is the customer's responsibility to check the condition of the shipping parts. After receiving the micro inverter, it is necessary to inspect the container for any external damage and confirm receipt of all items. If damage or missing components are detected, please call the delivery carrier immediately. If inspection reveals damage to the micro inverter, please contact the supplier or authorized distributor for a repair/return decision and instructions on the process.

Micro inverter storage temperature from -20°C to 50°C

7.3 Deal With

- If the device is not for immediate use or long-term storage, make sure it is properly packaged. Equipment must be stored in a well-ventilated inner area that does not have characteristics that could damage equipment components.
- A full inspection should be carried out when restarting after a prolonged or prolonged cessation of use.
- For end-of-life equipment that may be hazardous to the environment, properly dispose of the equipment in accordance with the regulations in force in the country where it is installed.

8. Technical data

	Warning: Be sure to verify the following before installing a Microinverter system.
	Verify that the voltage and current specifications of the PV modules match those of the microinverter.
	The maximum open circuit voltage rating of the PV modules must be within the operating voltage range of the microinverter.
	It is recommended that the maximum rated current of the MPPT \leq the maximum input DC current. But the maximum short-circuit current must be less than or equal to the maximum input DC short-circuit current.
	The output DC power of photovoltaic modules is not recommended to exceed 1.35 times the output AC power of the micro-inverter.

8.1 DC Input

Model	TPS1600MB	TPS2000MB
Maximum Input Power	Max 4*500W	Max 4*625W
Mppt Voltage Range (Module Open Circuit Voltage)	30~60V	
Starting Voltage	22V d.c.	
Working Voltage Range	22-60V d.c.	
Maximum Input Voltage	60V	
Maximum Input Current	4 × 16A	4 × 20A
Maximum Input Short Circuit Current	4 × 18A	4 × 23A
Maximum Feedback Current Of The Array	0	

8.2 AC Output

Model	TPS1600MB	TPS2000MB
Maximum Output Power	1600VA	2000VA
Rated Output Current	@120V 13.3A@230V 6.95A	@120V 16.6A @230V 8.7A
Nominal Output Voltage Range	@120V a.c. (Application area: such as Japan, North America, etc.) @230V a.c. (Application area: such as Europe)	
Nominal Frequency Range	50/60Hz	
Power Factor	> 0.99 default 0.95 leading...0.95 lagging	
Harmonic Distortion Of Output Current	< 3%	
Maximum Number Of Connections Per Branch	@120V 3PCs@230V 6PCs	

8.3 Efficiency, Safety and Protection

Model	TPS1600MB	TPS2000MB
Peak micro inverter efficiency	92.70%	
CEC weighted efficiency	92.50%	
Nominal MPPT efficiency	99.80%	
Night time power consumption (mw)	0	

8.4 Mechanical Data

Model	TPS1600MB	TPS2000MB
Ambient temperature range	-20 to +50°C	
Storage temperature range	-20 to +50°C	
Dimensions (LXW XH)	370 × 300 × 41.6mm	
Weight	2.52kg	3.16kg
Waterproof level	outdoor NEMA3R (IP65)	
Cooling method	Natural convection (no fans)	
Degree of pollution	PD3	

8.5 Feature

Model	TPS1600MB	TPS2000MB
Power Delivery Mode	Reverse transmission, load priority	
Communication method	WiFi	
Surveillance system	Cloud Intelligence	
Warranty	5 years	
Electrical standard	EN50549-1:2019, EN 50549-2:2019 EN61000-6-1:2007, EN 61000-6-3:2007+A1:2011+ AC2012 IEC/EN 62109-1:2010, IEC/EN 62109-2:2011	


*Note: Voltage and frequency ranges may exceed nominal values if required by the utility company.

8.6 Package

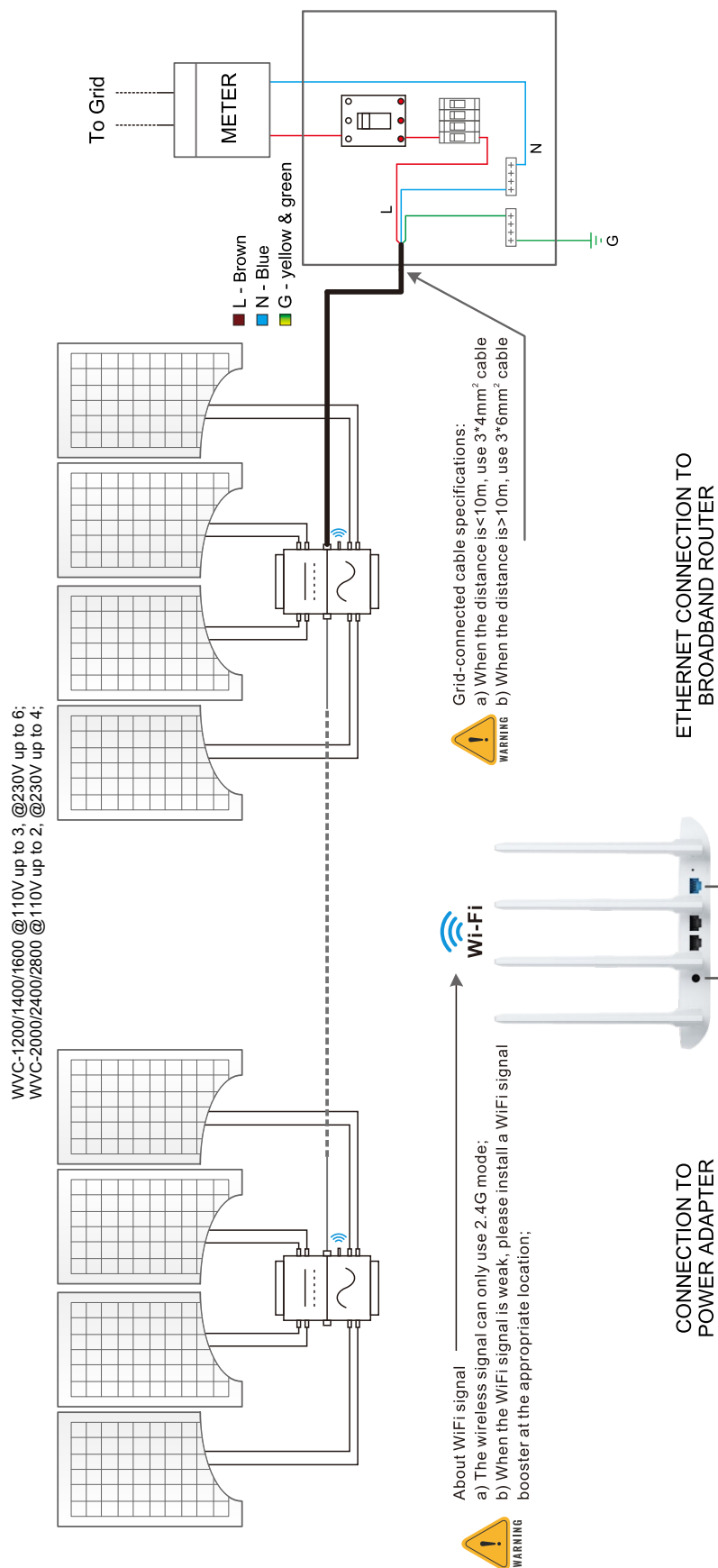
TPS1600MB	Single (packaging)	FCL (4 units)
G.W.	3.62Kg	15.5Kg
size	430 × 375 × 140mm	430 × 405 × 380mm

TPS2000MB	Single (packaging)	FCL (4 units)
G.W.	4.26Kg	17.8Kg
Size	430 × 375 × 140mm	430 × 405 × 380mm

Appendix 1:
Instructions

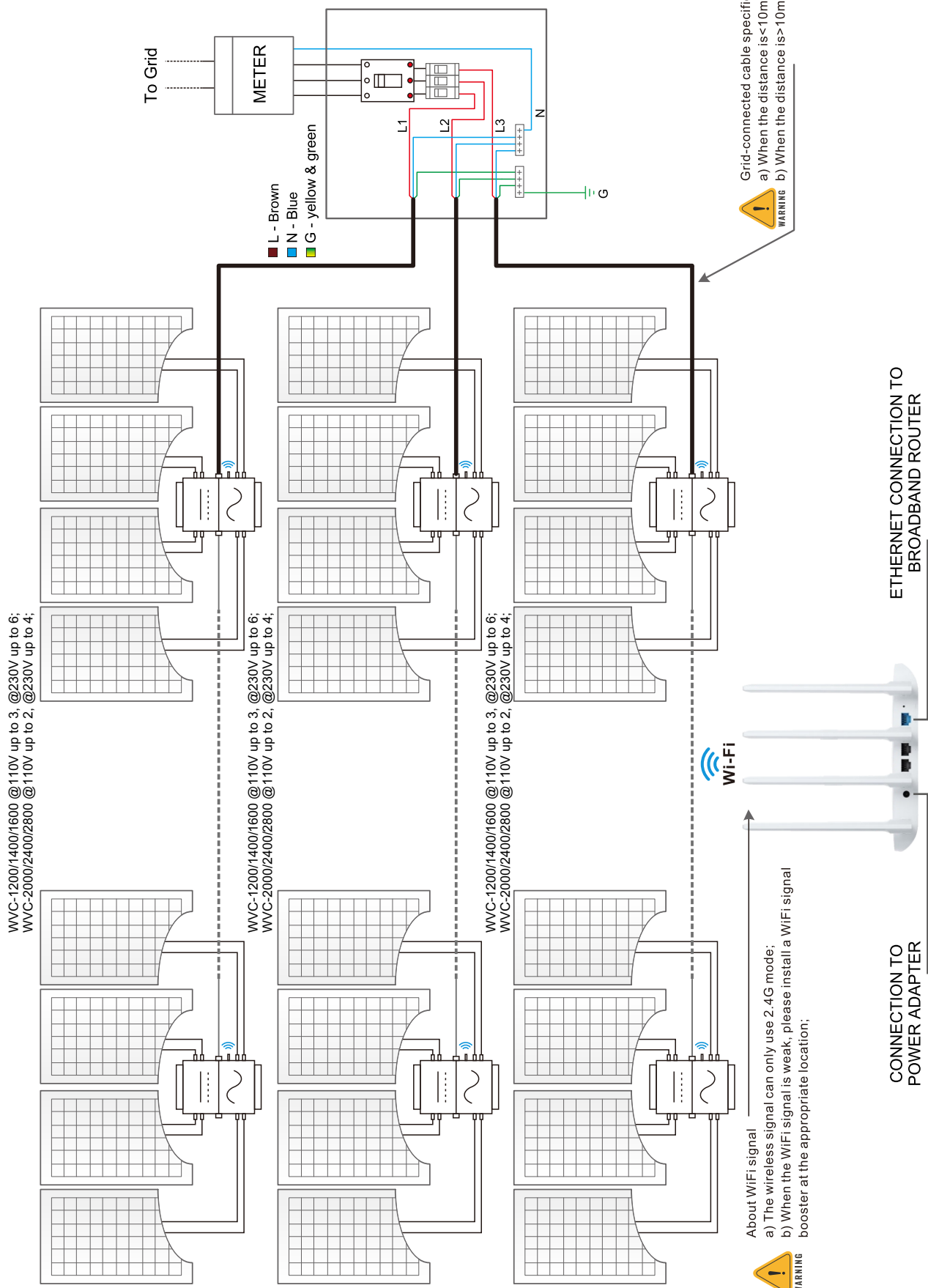
Micro Inverter Installation Drawing										
<div>North</div> 		Panel Type: Azimuth: Tilt: Sheet _____			Customer Information:			Serial Number:		
Array	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										
E										

Appendix 2: Wiring Diagram @230 VAC Single Phase:

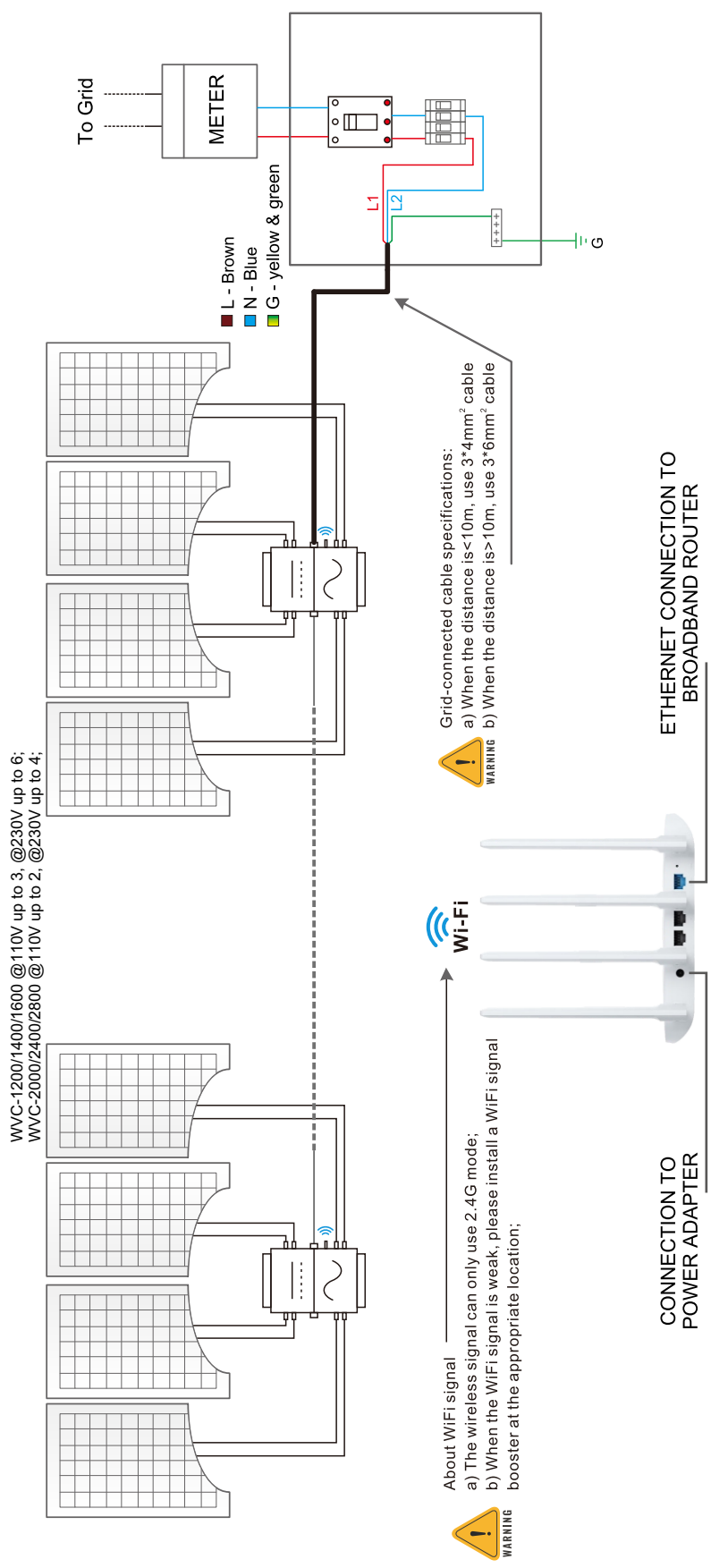


Wiring Diagram

@230 VAC 3 Phase:



Wiring Diagram
@120 VAC / 240 VAC Split Phase:



Wiring Diagram

@120 VAC / 208 VAC 3 Phase:

