

PSOL MICROINVERTER Quick Installation

Check the Installation Environment and Position

When choosing the position of installation, comply with the following conditions:

- To avoid unwanted power derating due to an increase in the internal temperature of the inverter, do not expose it to direct sunlight.
- To avoid overheating, always make sure the flow of air around the inverter is not blocked.
- Do not install in places where gasses or flammable substances may be present.
- Avoid electromagnetic interference that can compromise the correct operation of electronic equipment.
- It's recommended to install microinverter on structures underneath the photovoltaic modules so that they work in the shade.
- Use a mobile phone to check the Wi-Fi signal strength at the installation position. If the Wi-Fi signal is bad, try to install the microinverter at another position or move the Wi-Fi router.

Installation Steps

DANGER

Only qualified personnel should install, troubleshoot, or replace PSOL micro inverters or the cable and accessories.

- Before installation, check the unit to ensure absence of any transport or handling damage, which could affect insulation integrity or safety clearances.
- Unauthorized removal of necessary protections, improper use, incorrect installation and operation may lead to serious safety and shock hazards or equipment damage.
- Be aware that installation of this equipment includes risk of electric shock.

Step 1. Fix the microinverter

DANGER

Do not install the equipment in adverse environment conditions such as flammable, explosive, corrosive, extreme high or low temperature, and humid.

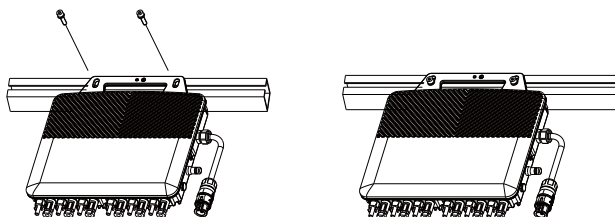
WARNING

Choose installation location carefully and adhere to specified cooling requirements. Micro-inverter should be installed in a suitable position with good ventilation and no directly sunshine.

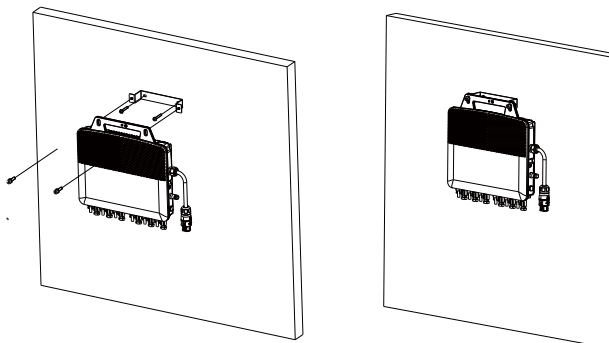
CAUTION

There are no screws and nuts in the package.

Choose an installation position. Using two pairs of screws and nuts to fix the microinverter on the frame. Make sure that the label of microinverter should be upside.



Microinverter can also be installed on the wall. Using the bracket (optional) and fix it on the wall. Then using two pairs of screws and nuts to fix the microinverter on the bracket. Make sure that the label of microinverter should be outside.



Step 2. Connect the AC cable

DANGER

- Do not install the AC junction box without first removing AC power from the system.
- To prevent electrical hazards, make sure the micro-inverter system is disconnected from the home distribution network and the AC breaker is open.

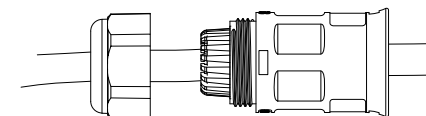
WARNING

- Ensure that all AC cables are correctly wired and that none of the wires are pinched or damaged.
- Use AWG 12 (4 mm²) cable for AC end cable.

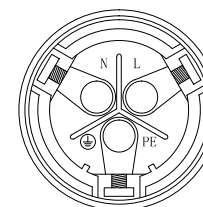
CAUTION

- The installation technician is responsible for selecting a kind of AC cable and connecting the micro-inverter system into the home distribution network correctly.
- The AC connectors may be provided by different suppliers. The port definitions are subject to actual objects.

Take out the AC connector from the package. Get the AC cable through the shell of AC connector and connect the cable to the right port.

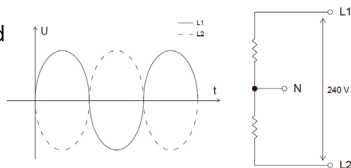


The definition of the port is shown below:

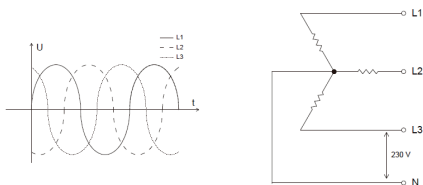


L: Live _____ (Brown/Red)
N: Neutral _____ (Blue/Black)
PE: Ground _____ (Yellow-Green)

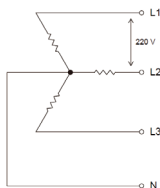
If the microinverter is connected to 120/240V split-phase power grid, connect two live lines to port L and port N.



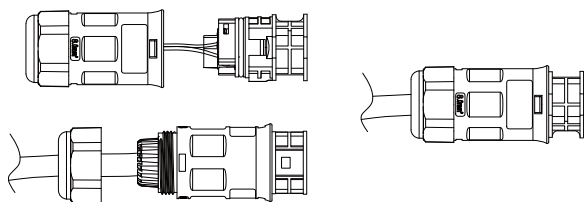
If the microinverter is connected to 230/400V three-phase WYE power grid, connect the live line to port L and connect the neutral line to port N, as the connection of single-phase power grid.



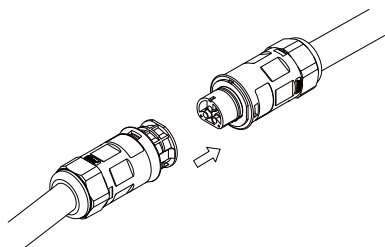
If the microinverter is connected to 127/220 V three-phase power grid, connect one live line to port L and connect another live line to port N.



Reassemble the AC connector as shown below.



Plug the AC connector into the microinverter and connect the AC cable to the AC distribution box.



Step 3. Connect the DC cable

DANGER

· When the photovoltaic array is exposed to light, it supplies a DC voltage to the inverter.

WARNING

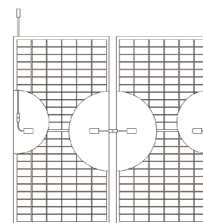
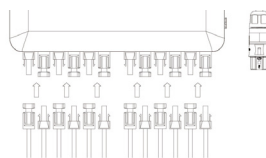
· Ensure that all DC cables are correctly wired and that none of the wires are pinched or damaged.
· The DC conductors of this photovoltaic system are ungrounded and may be energized.
· The maximum open circuit voltage of the PV module must not exceed the specified maximum input DC voltage of the PSOL micro inverter.

CAUTION

· If the DC cable is too short for installation, use a DC Extension Cable to connect PV modules to the microinverter.
· Use MC4 compatible DC connectors in the inverter side of DC extension cable, or get the DC connectors from Projoy.
· Contact PV module manufacturers for the requirements of DC connectors in the module side of DC extension cable.

Install the PV modules and connect the DC cable to the microinverter.

While using PSOL-MS3000L microinverter, each DC input of microinverter can connect two PV modules in series.



Step 4. Make an installation map

CAUTION

· If there are more than one installation site, please make the installation map separately and give a clear description about the installation site.

· The row of the table corresponds the shorter side of PV module and the column of the table corresponds the longer side of PV module. The direction on the upper left corner means the actual installation orientation.

Take out the SN labels and installation map from the package. Paste the SN labels on the installation map as below and complete the information of the solar plant.

PSOL-MS3000H						PSOL-MS2250						PSOL-MS3000L					
1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	
A						A						A					
B						B						B					

Step 5. Start the System

DANGER

· Only qualified personnel should connect this system to the utility grid.

CAUTION

· Do not connect micro-inverters to the grid or energize the AC circuit(s) until you have completed all the installation procedures and have received prior approval from the electrical utility company.

While installation is all finished, turn on the main utility-grid AC circuit breaker. Your system will start producing power after about a two-minute wait time. The LED will flash green and red at start up. The definition of LED is shown as below.

Status	Indicates
Solid Green	Standby/Waiting/Checking Status
Fishing Green (1s)	Working normally
Fishing Red	Working abnormally
Solid Red	Fault

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— Switch To Safety! —