

ENVERTECH EVT400 Micro Inverter System



ENVERTECH EVT400 Micro Inverter System Installation Guide

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ENVERTECH EVT400 Micro Inverter System



Product Information

- **Manufacturer:** Envertech Corporation Ltd.
- **Model:** EVT400
- **Type:** Type B QIG-B-2024-V01

Product Usage Instructions

Accessories

- **A.** M8 x 25 screws (Prepared by the installer)
- **B.** 5m AC extension cable

Note:

Accessories are not included in the package and should be purchased separately.

Create an Installation Map

- has. Create a paper installation map to record microinverter serial numbers and positions in the array.
- b. Peel the removable serial number label from each microinverter and affix it to the respective location on the paper installation map.
- vs. Always keep a copy of the installation map for your records.

Installation Steps

- **Step 1.** Verify that grid voltage and PV panel voltage match with the microinverter rating.
- **Step 2.** Mount microinverters onto the rack under PV modules with the trademark facing downward.
- **Step 3.** Ground the system by connecting microinverters and modules to the grounding conductor.
- **Step 4.** Install a WLAN antenna for a better WiFi signal.
- **Step 5.** Fasten AC cables and grounding cables to the rack with cable ties.

- **Step 6.** Connect to the grid either by connecting to an air switch or using a plug to connect to a socket.
- **Step 7.** Connect PV modules to microinverters by mounting the modules on top of the microinverters and connecting each module with the DC input cables of the microinverter.

Frequently Asked Questions (FAQ)

• **Q: Are accessories included in the package?**

A: No, accessories such as screws and AC extension cables are not included and should be purchased separately.

• **Q: Can I download technical documents from the Envertech website?**

A: Yes, you can download instructions and technical documents from www.envertec.com.

Envertech EVT400 Quick Installation Guide

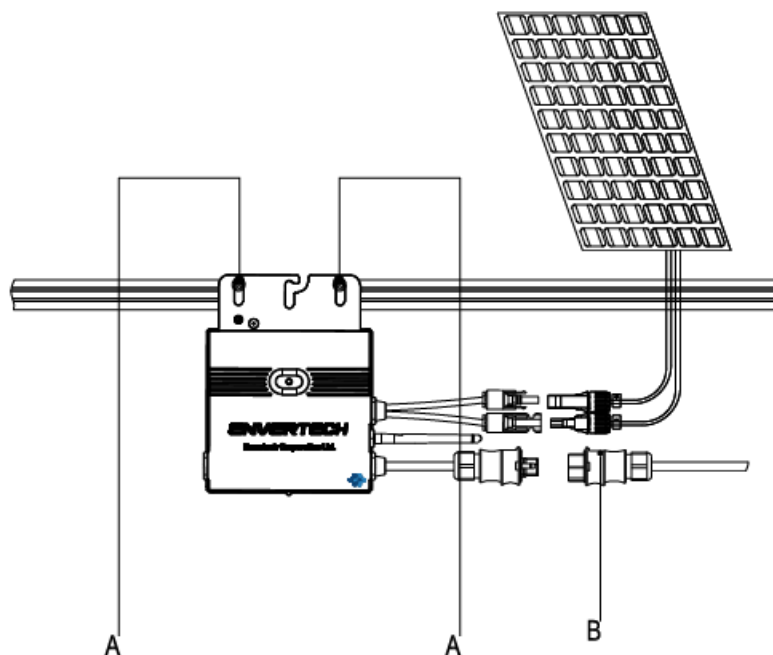
Please read and follow the safety and installation instructions below. You can download the instructions or other technical documents on our website: www.envertec.com.



Official Website

Accessories

A	M8 x 25 screws (Prepared by the installer)
B	5m AC extension cable



Note:

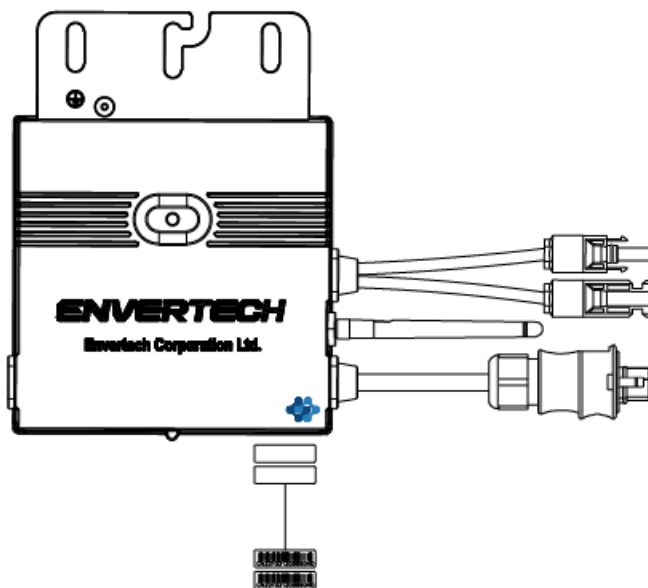
All accessories above are not included in the package and should be purchased separately.

Create an Installation Map

- **a.** Create a paper installation map to record microinverter serial numbers and positions in the array. Download the sheet with this QR code.



- **b.** Peel the removable serial number label from each microinverter and affix it to the respective location on the paper installation map.

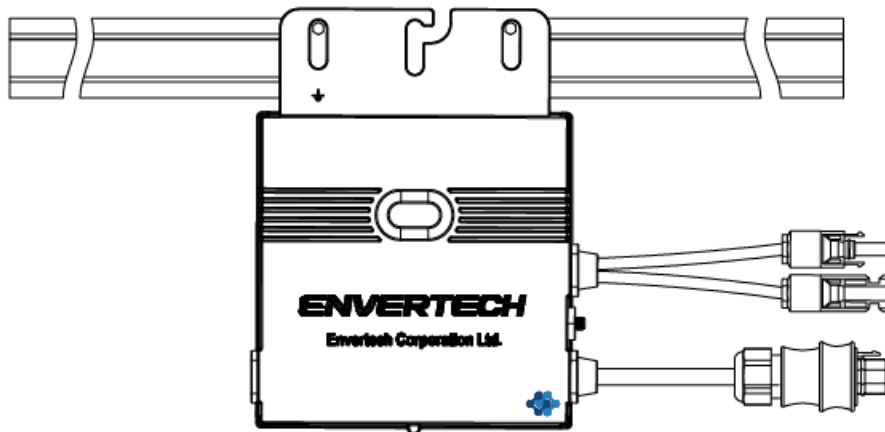


- **c.** Always keep a copy of the installation map for your records.

Installation Steps

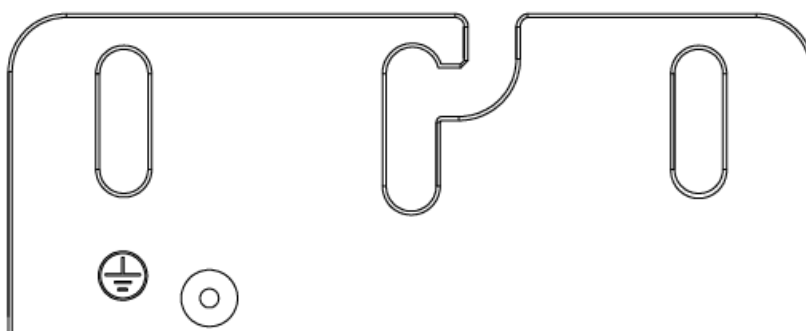
Installation could only be implemented when the system is disconnected from the grid, and the solar panel has been covered or disconnected.

- **Step 1.** Verify that grid voltage and PV panel voltage match with the microinverter rating
- **Step 2.** Mount microinverters onto the rack
 - Mark out the estimated center of each PV module on the rack to facilitate locating microinverters.
 - Mount all microinverters under modules to avoid rain and sun, with the trademark facing downward.



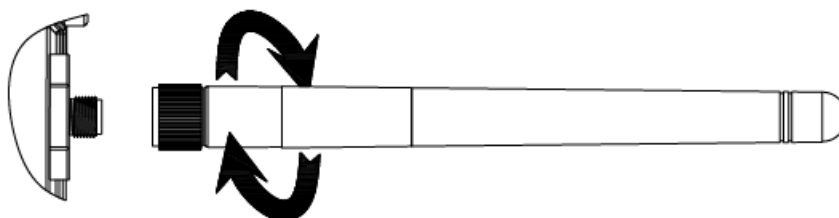
- **Step 3. Ground the system**

Microinverters and modules must be connected to the grounding conductor per national standards. Fix the grounding wire with screws to the microinverter's grounding hole, so that the grounding of microinverters can be realized.



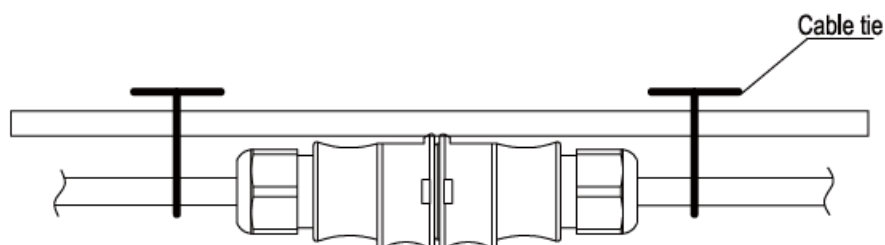
- **Step 4. Install a WLAN antenna**

For a better WiFi signal, rotate the antenna clockwise until it is firmly secured to the EVT400.



- **Step 5. Fasten AC cables**

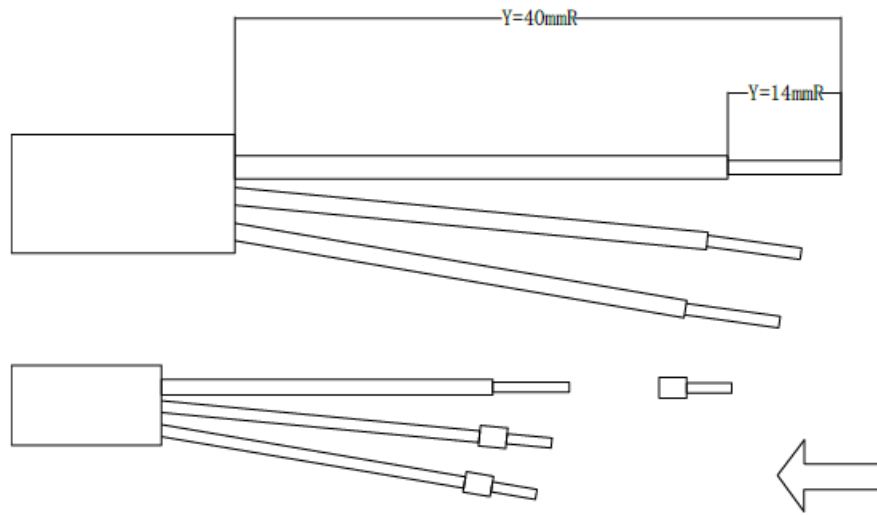
Fasten AC cables and grounding cables to the rack with cable ties.



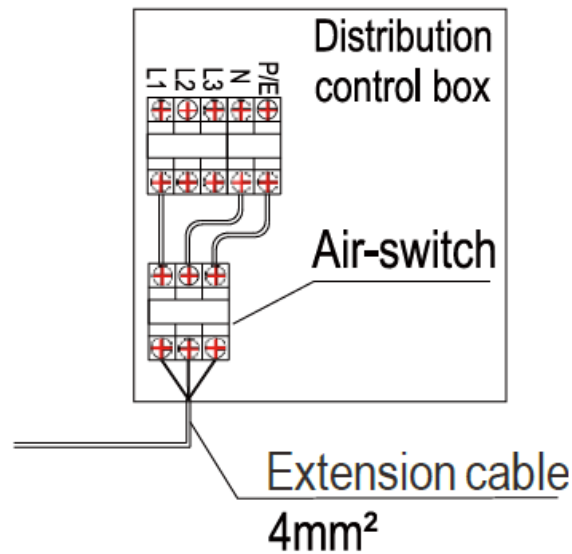
- **Step 6. Connect to the grid**

Option a. Connect to the air switch

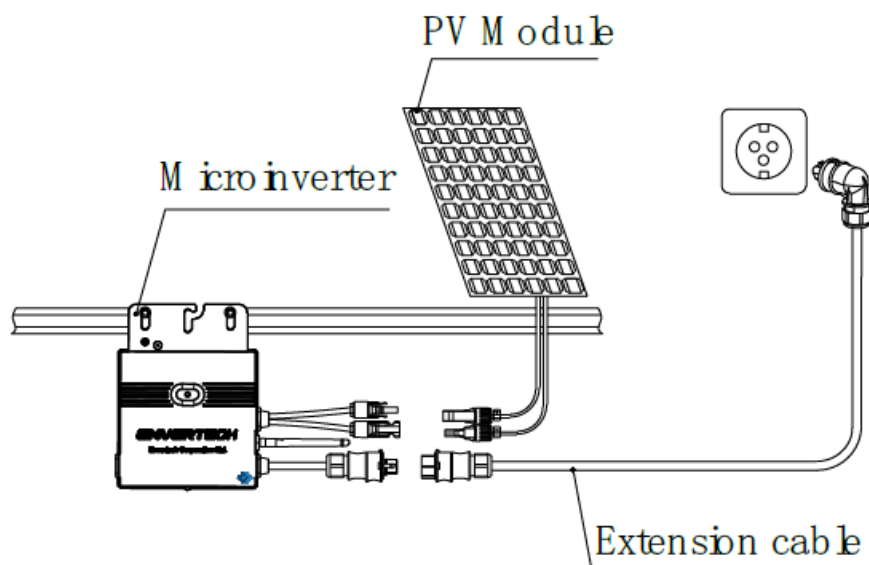
1. Remove the skin of the two ends of the extension cable by $y=40\text{mm}$ and remove the skin of internal wires by $x=14\text{mm}$. Set the metal terminals onto the open parts and clamp them to tighten the connection;



2. Connect the other side of the extension cable to the air switch.

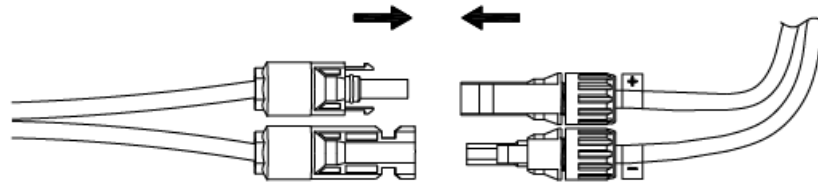


Option b. Put the open parts of the extension cable into the plug and use the plug to connect to the socket



• Step 7. Connect PV modules to microinverters

- Mount the PV modules on top of the microinverters;
- Connect each PV module with the DC input cables of the microinverter.
- **Note:** Please position the EVT400 as close as possible to the router.



- **Step 8. Switch on the PV system**

- Ensure all connection is completed and then turn on the air switch.
- For the monitoring system (EnverBridge) installation please scan this QR code.



EnverBridge Installation

Warranty Policy & Safety Info

Please register your product with the QR code below to obtain full warranty benefits, or you can only get a 2-year warranty.



Register Your Product

Wi-Fi Configuration

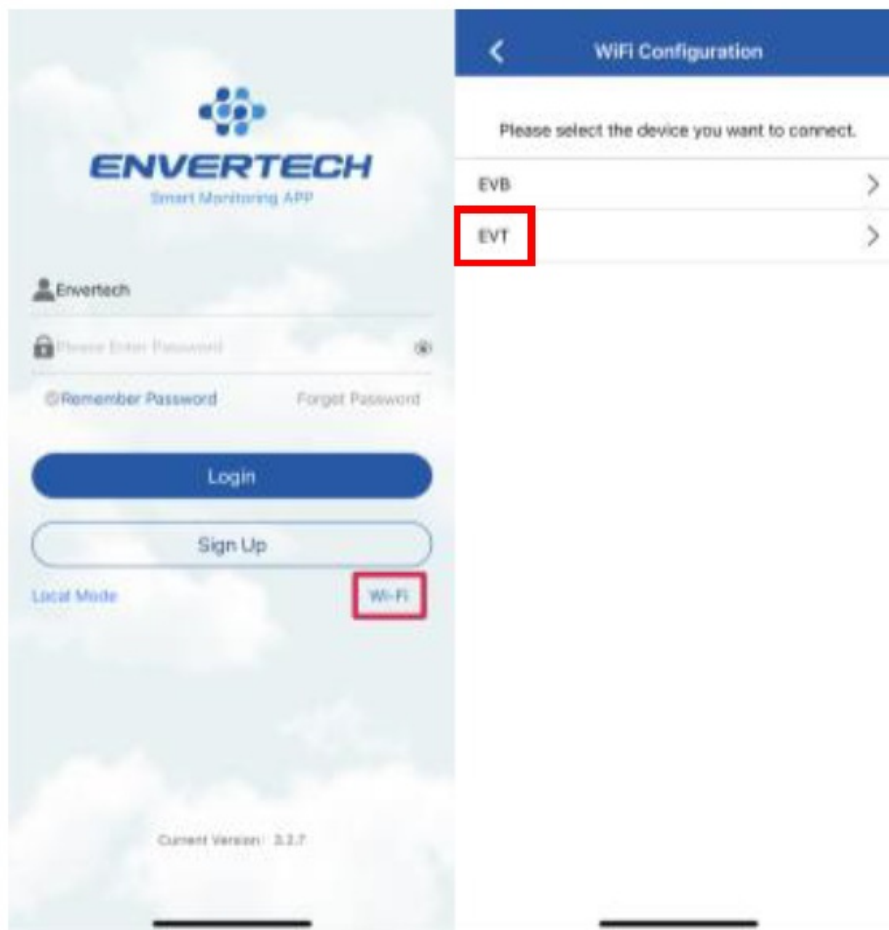
- **Note:** Please position the EVT400 as close as possible to the router.
- The EVT400 has built-in WIFI modular which can connect the router directly.
- **Web Portal address:** <https://www.envertecportal.com/>

To access our application, you can scan the QR code provided below or search for 'Interview' on the Google Play Store or Apple Store for download.

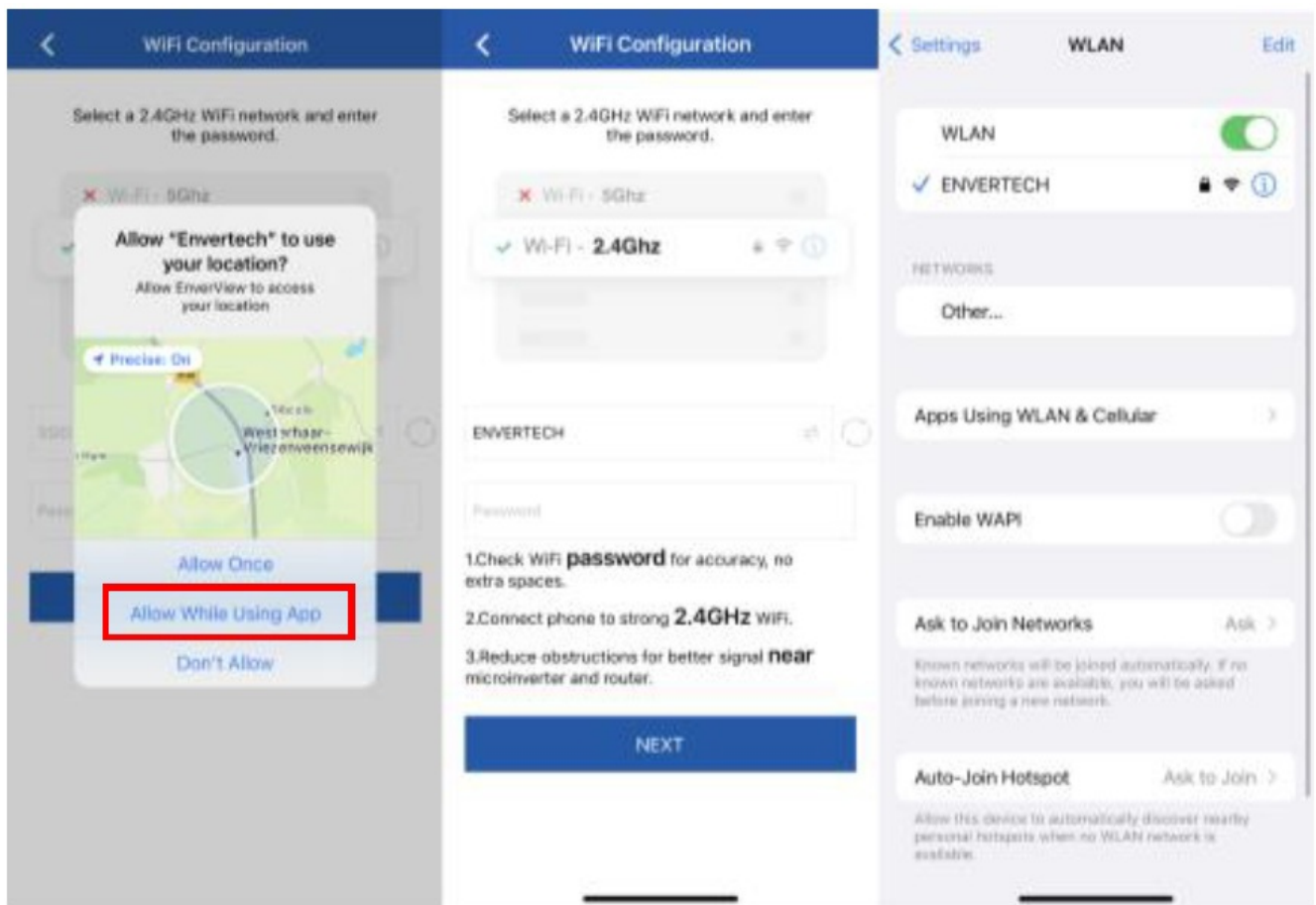


EnverView App

- Open the Overview app and click WiFi. Select “EVT” to connect.

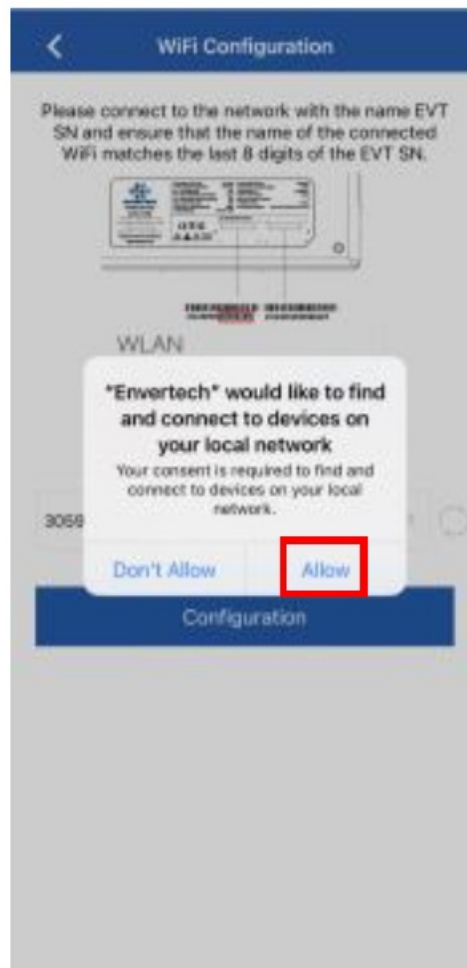


- Select a 2.4GHz WiFi network, and return to the app. Then enter the password of the 2.4GHz WiFi network. Please allow the Enverview app to use your location. Or you will fail to configure WiFi.

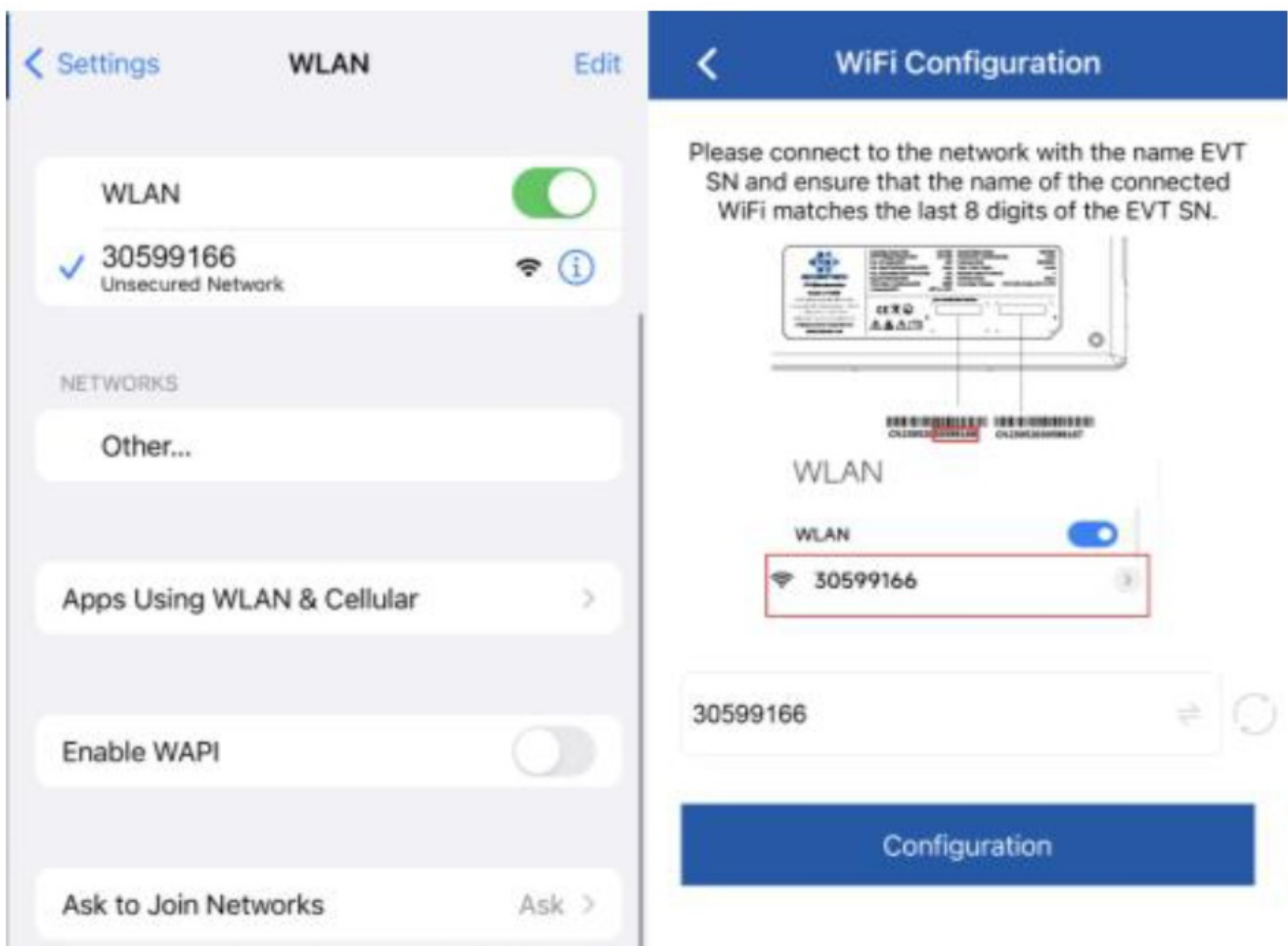


Note:

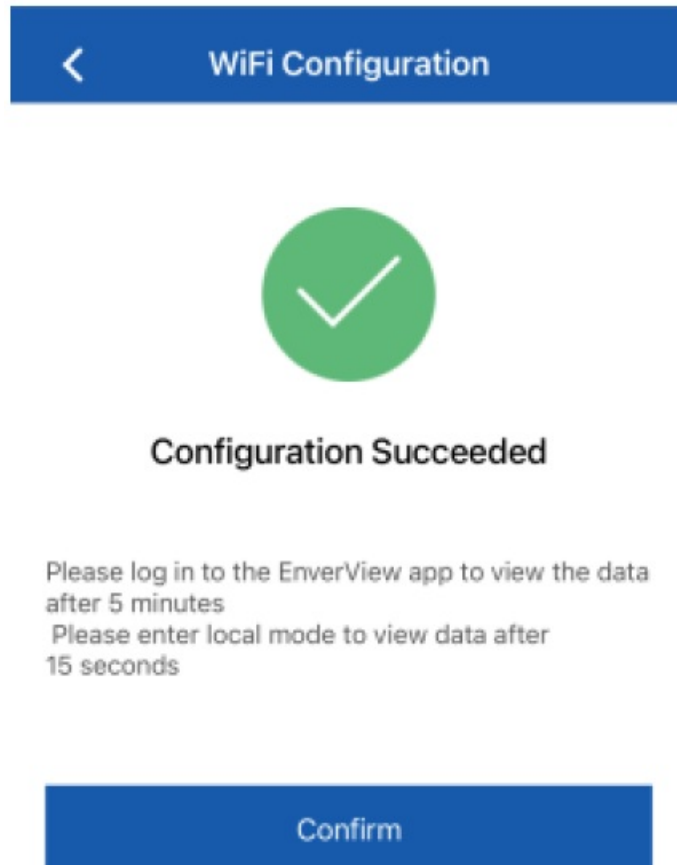
1. Please carefully check the WiFi password, such as extra spaces.
 2. Ensure that the WiFi name and password do not contain; = or other special characters.
 3. Please ensure that the current network your phone connects to is 2.4GHz WiFi, and the connection between your router and the Internet is in good condition.
- Connect the network whose name is as same as your EVT's SN, and return to the app. Please allow the Enverview app to find and connect to devices on your local network. If not, it also causes configuration failure.



Note: When configuring WiFi, make sure you keep staying on the current connection.



- Click Configuration and wait for success.



Note:

If the setting is not successful, wait for 5 seconds. Click Configuration again and make sure that the EVT400 is as close to the router as possible.

Microinverter Safety

- **DANGER:** Risk of electric shock. Risk of fire. Do not attempt to repair the Envertech Microinverter; it contains no user-serviceable parts. If it fails, contact Envertech customer service to obtain an RMA (return merchandise authorization) number and start the replacement process. Tampering with or opening the Envertech Microinverter will void the warranty.
- **DANGER:** Risk of fire. The DC conductors of the PV module must be labeled "PV Wire" or "PV Cable" when paired with the Envertech Microinverter.
- **WARNING:** You must match the DC operating voltage range of the PV module with the allowable input voltage range of the Envertech Microinverter.
- **WARNING:** The maximum open circuit voltage of the PV module must not exceed the specified maximum input DC voltage of the Envertech Microinverter. Using an electrically incompatible PV module voids Envertech's warranty.
- **WARNING:** Risk of equipment damage. Install the microinverter under the PV module to avoid direct exposure to rain, UV, and other harmful weather events. Always install the microinverter bracket side up. Do not mount the microinverter upside down. Do not expose the AC or DC connectors to rain or condensation before mating the connectors.
- **WARNING:** Risk of equipment damage. The Envertech Microinverter is not protected from damage due to moisture trapped in the cabling systems. Never mate microinverters to cables that have been left disconnected and exposed to wet conditions. This will void the Envertech warranty.

- **WARNING:** Risk of equipment damage. The Envertech Microinverter functions only with a standard, compatible PV module with appropriate fill factor, voltage, and current ratings. Unsupported devices include smart PV modules, fuel cells, wind or water turbines, DC generators, non-Envertech batteries, etc. These devices do not behave like standard PV modules, so operation and compliance are not guaranteed. These devices may also damage the Envertech Microinverter by exceeding its electrical rating, making the system potentially unsafe.
- **WARNING:** Risk of skin burn. The chassis of the Envertech Microinverter is the heat sink. Under normal operating conditions, the temperature could be 20°C above ambient, but under extreme conditions, the microinverter can reach a temperature of 90°C. To reduce the risk of burns, use caution when working with microinverters.

Note:

Please do not violate the following content, otherwise, the warranty will be invalid.


1. Ensure that the EVT400 is properly grounded during installation.
2. It is prohibited to connect more than one photovoltaic panel to a DC connector.
3. It is prohibited to use batteries and energy storage products that have not been certified by Envertech.

Contact Information

Envertech Corporation Ltd.

- **Tel:** +86 21 6858 0086
- **Web:** www.envertec.com
- **Email:** info@envertec.com
- **Add:** No.138, Xinjunhuan Road, Minhang District, Shanghai, China.

Documents / Resources

	<p>ENVERTECH EVT400 Micro Inverter System [pdf] Installation Guide EVT400, EVT400 Micro Inverter System, EVT400, Micro Inverter System, Inverter System, System</p>
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References

- ❖ [Envertech High Efficiency Solar Microinverters - Unlock the Power of the Sun](#)
- ❖ [Envertech Portal](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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