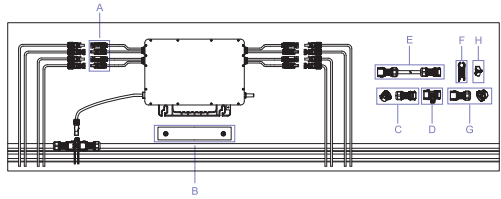


# Q Series Quick Installation Guide

Models: QI-1600-E QI-2000-E QI-2400-E

## 1 Accessories



Item	Description
A	PV Connectors
B	M8 * 25 Screws (Prepared by the Installer)
C	AC Male Connector & End Cap
D	AC Trunk Connector
E	AC Trunk Cable 12/10AWG Cable
F	AC Trunk Disconnect Tool
G	AC Female Connector & End Cap
H	AC Trunk Port Cap

**NOTE**  
All accessories above are not included in the package and should be purchased separately. Please contact sales for the latest sales price.

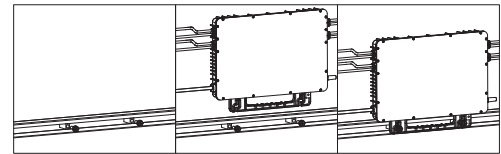
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## 2 Installation Steps

The order of Step 1 and Step 2 can be reversed according to your planned needs.

### Step 1. Plan and Install the Microinverter

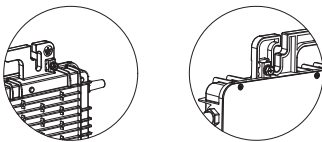
- Mark the position of each microinverter on the rail according to the PV module layout.
- Fix the screws on the rail.
- Hang the microinverter on the screws, and tighten the screws.



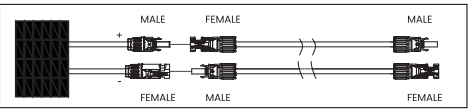
- NOTE**
- There is a ground wire inside the AC cable and the grounding can be done directly by this wire. If external grounding is needed, the grounding electrode, as shown in figure 1, can be used to bond the mounting bracket to the racking. Torque each grounding cleat screw to 2 N·m.
  - Install the microinverter and all DC connections under the PV module to avoid direct sunlight, rain exposure, snow buildup, UV, etc.
  - Install the microinverter in the best ventilated spot. Leave at least 2 cm of space around the microinverter enclosure to ensure ventilation and heat dissipation. For installation locations that may raise the operating temperature of the microinverter, such as metal roofs, a greater distance of free space may be recommended for better device efficiency.
  - Mounting torque of the 8 mm screws should be 9 N·m. Please do not over-torque.
  - Do not pull or hold the AC cable with your hand.

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Figure 1:



**CAUTION:** If a PV extension cable is needed, please confirm whether the extension cable is made correctly. Please refer to the following figure:



### Step 2. Plan and Build the AC Bus Cable

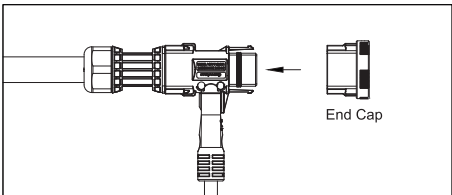
AC Trunk Cable is used to connect the microinverter to distribution box.

- Select the appropriate AC Trunk Cable according to the spacing between microinverters. The connector spacing of the AC Trunk Cable should be close to spacing between microinverters to ensure that they are well-matched.
- Determine how many microinverters you plan to install on each AC branch and prepare AC Trunk Connectors accordingly.
- Take out segments of AC Trunk Cable as you need to make AC branch.

- Installation of the AC bus (as shown below).

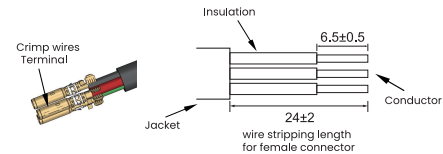


- Install the AC Trunk End Cap at one side of AC Trunk Cable (the end of AC Trunk Cable).

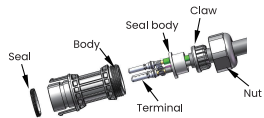


- Install AC end cable on the other side of AC Trunk Cable (connected to the distribution box)

- Prepare a segment of AC cable with suitable length to connect to the distribution box, with stripping requirements fulfilled.

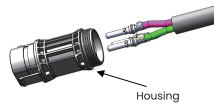


- Run the cable into the sleeve assembly. (AC Male connector)



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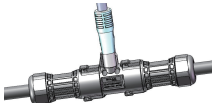
- Pushing terminal into the body.



- Insert Seal and Clamp Finger into body, then tighten the nut, torque 2.5±0.5 N·m.



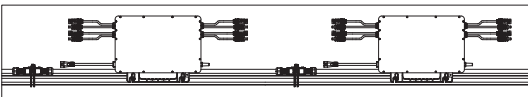
- Male and female connectors connected.



- NOTE**
- Tightening torque of the cap: 2.0±0.5 N·m. Please do not over-torque.
  - Do not damage the sealing ring in the AC Trunk Connector during disassembly and assembly.

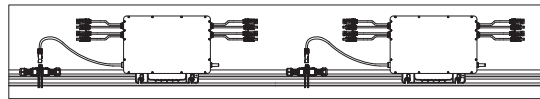
- Repeat the above steps, lay out the cable on the rail as appropriate so that the microinverters can be connected to the Trunk connectors.

- Attach the AC Trunk Cable to the mounting rail and fix the cable with tie wraps.

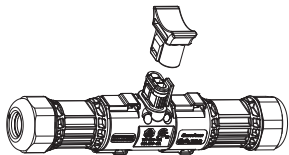


### Step 3. Complete the AC Connection

- Push the AC Sub Connector from microinverter to the AC Trunk Connector until it clicks.



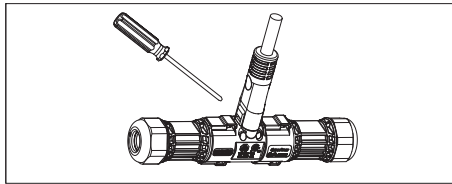
- Connect the AC end cable to the distribution box, and wire it to the local grid network.
- Please plug the AC Trunk Port Cap in any vacant AC Trunk Port to make it water and dust-proof.



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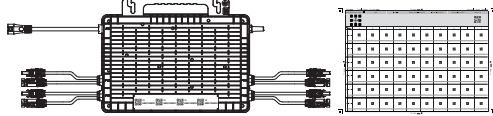
#### NOTE

- Make sure that the AC Trunk Connectors are kept away from any water-channeling surface.
- In case you need to remove the inverter AC cable from AC Trunk Connector, please use tool, such as screwdriver or AC Trunk Disconnect Tool (F), to insert into the side of AC Sub Connector to complete the removal.



### Step 4. Create an Installation Map

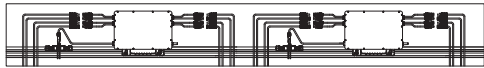
- Peel the removable serial number label from each microinverter.
- Affix the serial number label to the respective location on the installation map (please refer to the map on the back of this guide).



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### Step 5. Connect PV Modules

- Mount the PV modules above the microinverter.
- Connect the PV modules' DC cables to the DC input side of the microinverter.
- If the DC cable is not long enough, use an appropriate DC extension cable.



### Step 6. Energize the System

- Turn on the AC break for each branch.
- Turn on the main AC breaker for your system. It will start to power generation in about two minutes.

For more information, please scan the QR code below.



Note: Contains app download path, configuration process, etc.

