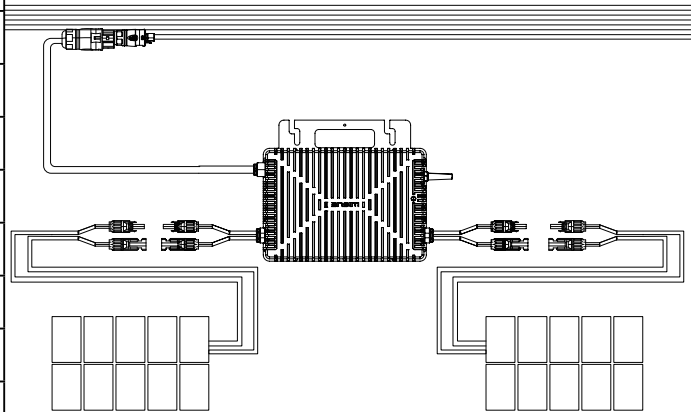


## 1. Accessories

Item	Description
A	AC Trunk Cable, 12/10 AWG Cable
B	M8 x 25 screws(Prepared by the installer)
C	Grounding Accessory
D	AC Trunk Connector
E	AC Trunk Port Cap
F	AC Trunk Port Disconnect Tool
G	AC Trunk End Cap
H	AC Trunk Connector Unlock Tool



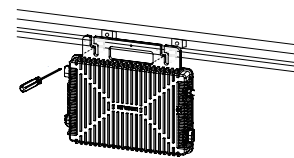
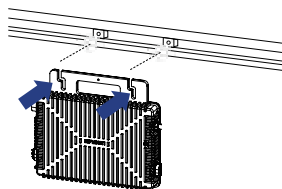
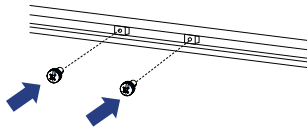
Note: All accessories above are not included in the package and should be purchased separately.

## 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

- In according with the PV module layout, mark the position of each microinverter on the rail, .
- Fix the screw on the rail.
- With the label facing upwards, hang the microinverter using the screws underneath the PV module. Next, tighten the screws.



Note:

- The wire cable contains an earth wire that can be used directly for grounding. The mounting bracket can be bonded to the racking using the grounding accessory, as seen on the right, if external grounding is required. Put 2 Nm of torque on each grounding cleat screw.
- Place the microinverter and all of the DC connections beneath the PV module to protect it from UV, snow accumulation, rain, and direct sunlight.
- Make a minimum of 2 cm of space surrounding the microinverter enclosure to facilitate heat dissipation and ventilation.
- The 8 mm screws should be mounted with a torque of 9 N-m. Do not overtorque, please.
- Avoid tugging or gripping the AC cable with your hands. But grasp the handle.

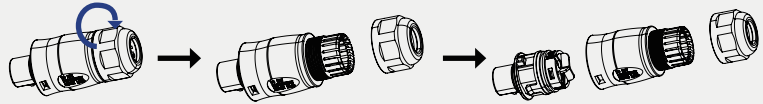
### Step 2. Plan and build the AC Bus Cable

The distribution box and microinverter are connected by means of an AC trunk cable.

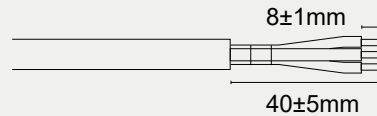
- ENSIM provides AC Trunk Cable with appropriate AC Trunk Connector.
- The installer need to measure the distance from the distribution box to the microinverter to determine the required cable length.

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

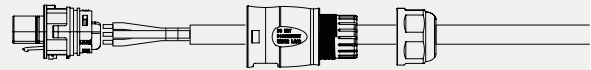
-Unscrew the port on the side, and press the lock to open the other side.



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



-Insert the cable into the cap in a way that the L,N and PE lines are in corresponding slots.



-Tighten the screws and tighten the cap back to the port.



Note:

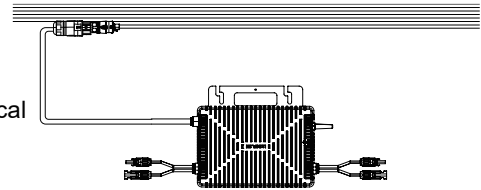
1. Tightening torque of the cap:  $4.0 \pm 0.5$  N.m. Please do not over-torque.
2. Torque of locking crew:  $0.4 \pm 0.1$  N.m.
3. Do not damage the sealing ring in the AC Trunk Connector during disassembly and assembly.

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

### Step 3. Complete the the AC Connection

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

B) Connect the AC end cable to the distribution box, and write it to the local grid network.



Note:

1. Ensure that no surface that channels water is in contact with the AC trunk connectors.
2. Please use the AC Trunk Port Disconnect Tool to finish removing the inverter AC cable from the AC Trunk Connector by inserting the tool into the side of the AC Sub Connector.

### Step 4. Create an Installation Map

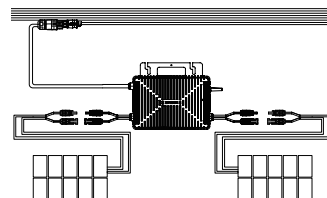
A) Remove the microinverter's detachable serial number label.

B) Attach the serial number label to the appropriate spot on the installation map (see the User Manual for details).

### Step 5. Connect PV Modules

A) Place the solar panels on top of the microinverter.

B) Attach the DC cables from the PV modules to the microinverter's DC input side.



### Step 6. Energize the System

A) Activate the branch circuit's AC breaker.

B) Switch on the house's main AC breaker. It will take your system about two minutes to begin producing electricity.

### Step 7. Set up Monitoring System

To install the DTU and set up the monitoring system, please refer to the DTU User Manual, DTU Quick Installation Guide, and S-Miles Cloud Quick Installation Guide.