

# Anker SOLIX Microinverter Quick Installation Guide



User Guide



Installer Guide



Online Support and Video

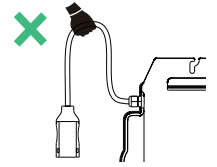
## Step 1 Verify that the grid voltage matches the microinverter rating

### Step 2 AC bus cable distribution

- One end of the AC bus cable is used to access the junction box connected to the power grid.
- Wire the conductors of the AC bus as follows:  
European Standard: L - BROWN; N - BLUE; PE - YELLOW GREEN;  
American Standard: L1 - BLACK; L2 - RED; PE - GREEN.

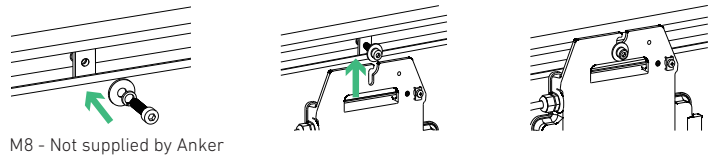
**NOTE:** Wiring color codes may vary according to local regulations. Before connecting to the AC bus, ensure that all wires of the installation match. Incorrect cabling can irreparably damage the microinverters, and such damage is not covered by the warranty.

**ATTENTION:** Do NOT carry the microinverter by the AC cable. This could lead to partial or complete disconnection of the AC cable from the unit, resulting in no operation or poor operation.



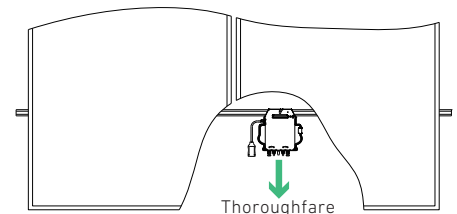
### Step 3 Attaching the microinverters to the racking

- Mark the location of each microinverter on the rack relative to the PV module junction box or any other obstructions.
- Install one microinverter at each of these marked locations using the hardware recommended by your module racking vendor.



**NOTE:** Install the microinverters (including DC and AC connectors) beneath the PV modules to protect them from direct exposure to rain, UV, or other adverse weather conditions. Leave a minimum of 1.5 cm (3/4 inch) space below and above the microinverter casing to allow proper airflow. The racking must be grounded in accordance with local electrical codes.

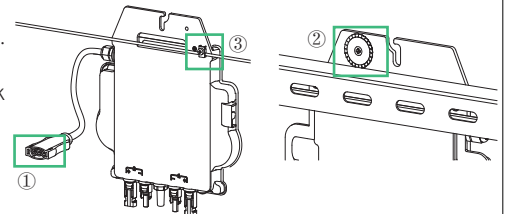
**Tip:** When flush-mounting photovoltaic modules on the rooftop, ensure that the DC connectors, antenna, and LED indicator of the microinverter are facing outwards. This arrangement facilitates monitoring of indicator status and ensures optimal communication quality.



### Step 4 Grounding the system

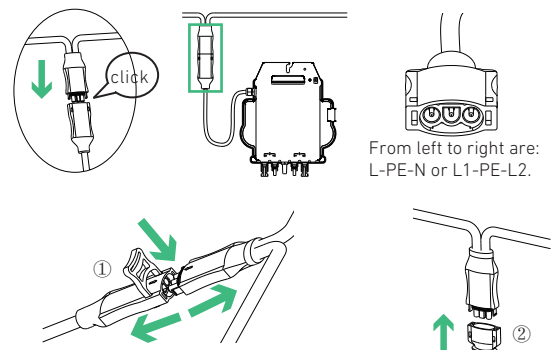
There are three ways to connect grounds on the microinverter:

- AC Bus cable has an embedded PE wire to ground the inverters in the AC circuit box.
- If the rack is grounded, the grounding washer on the inverter could create a tight bond onto the rack as a ground connection. This is also a solution to ground the rack through inverter when the inverters are grounded.
- If an external connection is necessary an external wire can be bonded to the groundinglug on the exterior of the inverter and connected to ground.



### Step 5 Connecting the microinverter to the AC bus cable

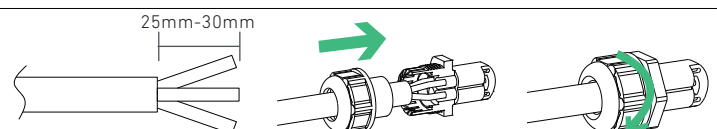
Insert the microinverter AC connector into the trunk cable connector. Ensure you hear the "click" sound as evidence of a secure connection.



- Best Practice: Use the AC Bus Cable Unlock Tool to disconnect the connectors.
- NOTE:** Cover any unused connectors with the Bus Cable CONN Cap to protect them.

### Step 6 Installing a bus cable end cap at the end of the AC bus cable

- Strip cable jacket.
- Insert the cable end into the seal.
- Rotate the nut with 4-5N·m until the latching mechanism meets the base.



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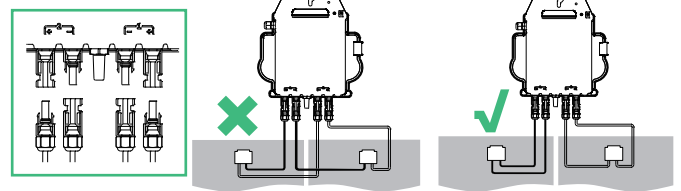
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## Step 7 Connecting microinverters to the PV modules

When plugging in the DC cables, the microinverter should immediately blink green ten times. This will happen as soon as the DC cables are plugged in and will indicate that the microinverter is functioning correctly. This entire check function will start and end within 10 seconds of plugging in the unit. Therefore, pay close attention to these lights while connecting the DC cables.

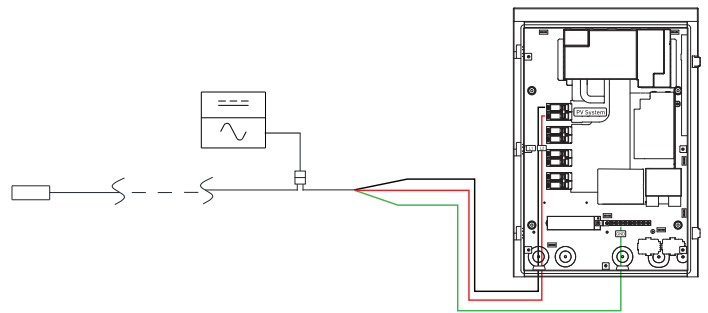
**WARNING:** Double-check to ensure that all AC and DC wiring has been correctly installed. Verify that none of the AC and/or DC wires are pinched or damaged. Confirm that all junction boxes are properly closed.

Each PV panel must be meticulously connected to the same channel. Do not split positive and negative DC cables into two different input channels, as this will damage the microinverter and void the warranty.



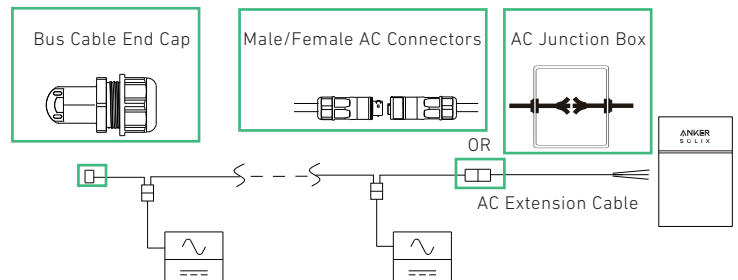
## Step 8 Connecting the microinverters to the grid

- Please install bi-polar circuit breakers with the appropriate rated current or according to local regulations. These circuit breakers are mandatory for grid connection.
- Installation of leakage current breakers or AFCI/GFCI breakers is not recommended.



## Step 9 AC extension cable

When an AC extension cable is required, users can either connect the AC bus cable and AC extension cable within a junction box or use a pair of male/female AC connectors provided by Anker as optional accessories.

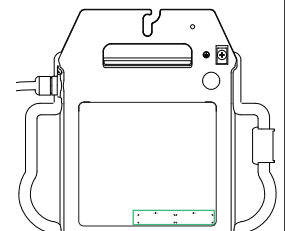


## Step 10 Completing the installation map

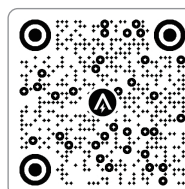
- Each Microinverter comes with 2 removable serial number labels.
- Complete the installation map by affixing the ID label of each microinverter at the appropriate location.
- The second serial number label can be adhered to the solar module frame. This label will assist in later confirmation of the microinverter's position without the need to dismantle the PV module.

### NOTE:

- The arrangement of the microinverters' serial numbers in the installation map is designed for standard installations.
- The Installation Map can be found in the appendix on the last page to scan the serial numbers on the map (refer to the Zigbee Dongle instruction manual for further details).
- When configuring the Zigbee Dongle, use the Anker SOLIX Professional APP to scan the serial numbers on the map (refer to the Zigbee Dongle instruction manual for further details).



Anker SOLIX  
Professional App  
(Installer)



Anker App for  
Smart Control  
(User)

## Customer Service

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🌐 <https://support.ankersolix.com>