

Warning:

- Read this guide thoroughly before installation.
- Operation personnel must wear proper personal protective equipment (PPE).
- Ensure that AC and DC wires are not live before any connection work.
- Adhere to the applicable codes and regulations of the installation site.
- Hoymiles is not liable for damages resulting from improper installation and use.



Danger:

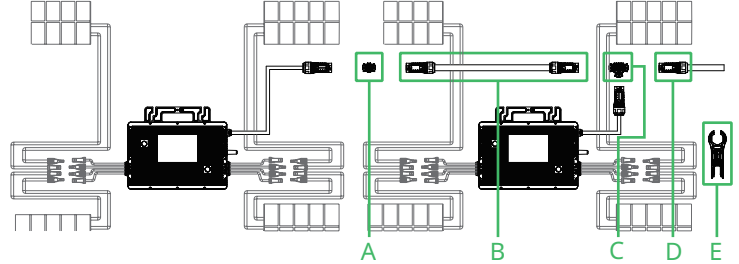
- This installation must be carried out with all devices off the grid.
- To avoid damaging the microinverter or potential fire hazards, ensure all terminals are securely tightened with the correct torque.

Notice:

HMT-2000-4T series microinverter can be operated on the three-phase 230/400 V grid.

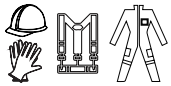
Wiring Diagram

Item	Description
A	HMT Extension Connector
B	HMT Connection Cable
C	HMT Trunk Connector
D	HMT Cable Terminal Connector
E	HMT Disconnect Tool



Preparation

1 Check the Tools



PPE



2-9 N·m

Electrical Screwdriver



M8 Screws



Cable Tie



Diagonal Cutter



Wire Stripper



1.5-3 N·m

Torque Wrench



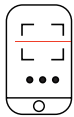
2.5/4/6 mm²

Crimping Tool

2 Download the Application

Download the S-Miles Installer app and open it to log on to your account. There are two ways to download,

- Scan the QR code below
- Type in "S-Miles Installer" on the AppleStore or Play Store



S-Miles Installer

3 Plan for the Microinverter Numbers

Define the number of microinverters per AC output line based on the ampacity of the AC cables.

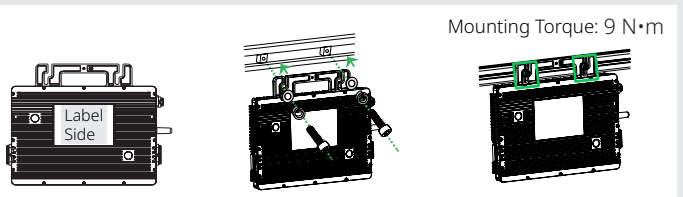
*AC cable ampacity determines the limits, which may vary. Check local codes for the actual limitations.

	Maximum Microinverter Number per Line @ 230 V		
Model	HMT-1600-4T	HMT-1800-4T	HMT-2000-4T
2.5 mm ²	10	9	8
4 mm ²	13	12	11
6 mm ²	17	15	13

Mechanical Installation

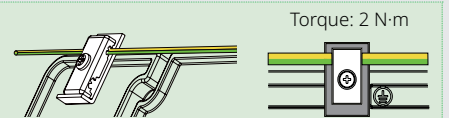
1 Attach the Microinverters to the Racking

- Plan and mark the position of each microinverter on the racking.
- Slide all sliding T-nuts along the racking until they are fully seated in the marked locations.
- Place the microinverter (label side up) onto the racking.
- Secure the microinverter to the racking (Torque: 9 N·m).



Warning:

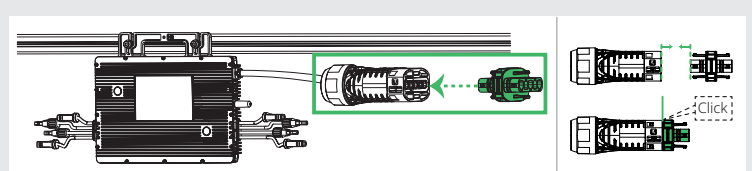
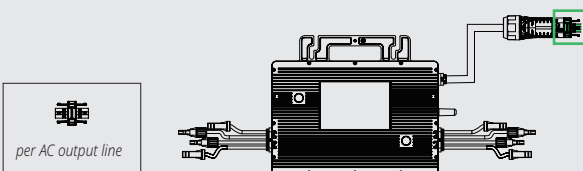
- Always install the microinverter beneath the PV module to avoid direct exposure to rain UV, and other harmful weather events.
- Maintain a minimum 30 cm distance between the microinverter and the roof for optimal communication quality. If this isn't possible due to site constraints, maximize the separation between the microinverter and the roof.
- Allow at least 2 cm of space around the microinverter for ventilation and heat dissipation.
- The AC cables already include earth wires for direct grounding. Use the grounding clamps as shown on the right if external grounding is required.



AC Side Electrical Installation

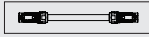
1 Connect the HMT Extension Connector

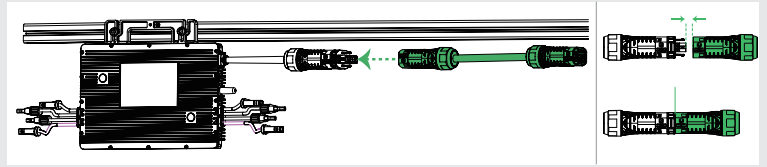
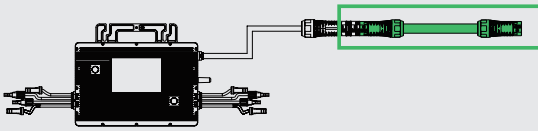
Connect the HMT Extension Connector to the microinverter. Listen for a click as the connectors engage.



2 Connect the HMT Connection Cable

Use the HMT Connection Cable to connect the HMT Extension Connector. Listen for a click as the connectors engage.

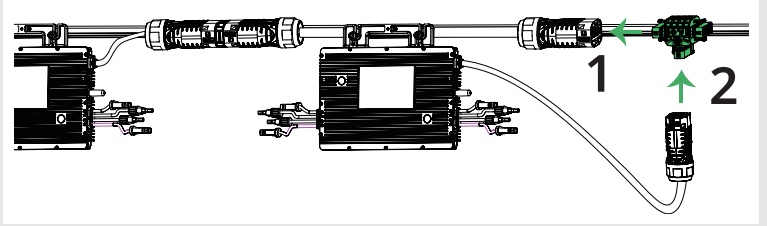
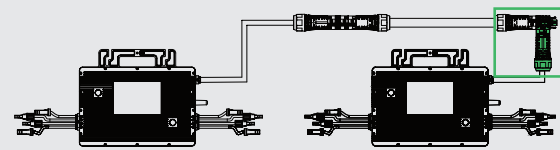
 The quantity depends on the on-site situation.



3 Connect the Microinverters in Series

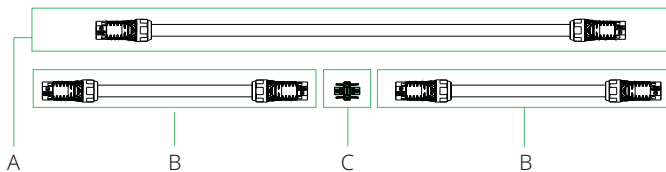
Use the HMT Trunk Connector to connect the adjacent microinverters, and listen for a click as they engage. Then, repeat this step to connect all microinverters on the AC Trunk one by one.

 the number of microinverters per line minus 1

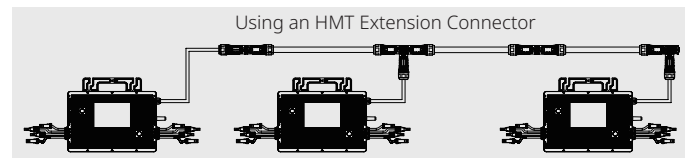
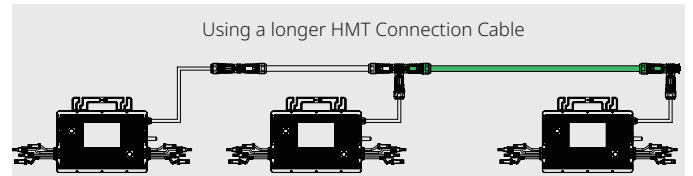


Rooftop Obstacle Scenario

- **Using a longer HMT Connection Cable:** Hoymiles offers cable lengths including 2.3 m and 4.6 m. If you require a different length, contact Hoymiles sales.
- **Using an HMT Extension Connector:** The HMT Extension Connector can connect two HMT Connection Cables into a longer one.

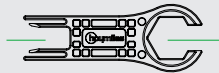


No.	Description
A	4.6-meter HMT Connection Cable
B	2.3-meter HMT Connection Cable
C	HMT Extension Connector

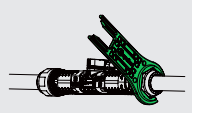
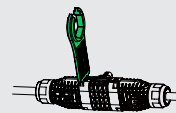


* To disconnect the connections you must use an HMT Disconnect Tool.

disconnect connectors



tighten/loosen nuts



4 Make the AC End Cable

a. Prepare an AC cable.

Wire Type	Outdoor Use, Copper Wire
Cable Diameter	≤ 22 mm
Voltage Rating	600 V

b. Separate the HMT Cable Terminal Connector into five parts.



Nut
× 1



Terminal
Pin × 5



Gasket
× 1

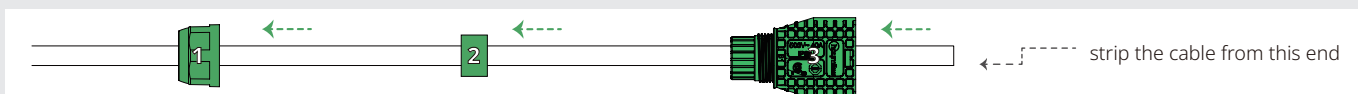


Cover
× 1

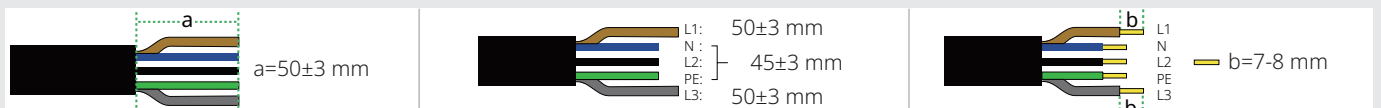


Connector
Body × 1

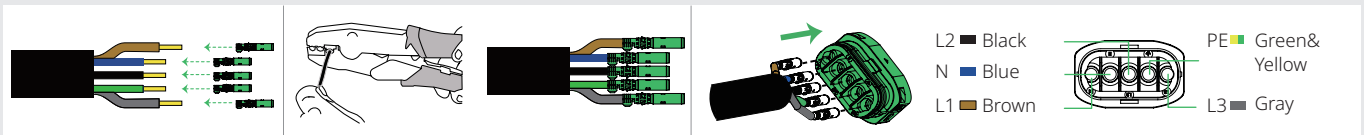
c. Slide the three parts over the AC cable in the correct order.



d. Cut the outer jacket by 50 ± 3 mm using a diagonal cutter. Then, cut 5 mm off the the N, L2 and PE wires. Finally, strip all insulation to reveal a 7-8 mm conductor with a wire stripper.

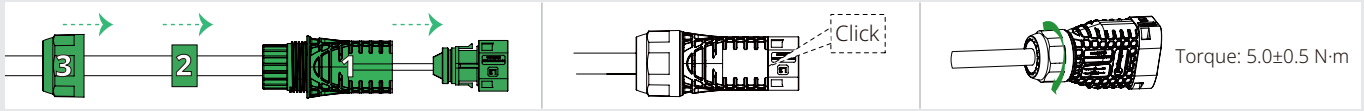


e. Insert the conductors into the terminal pins, crimp the connection, and push the crimped cable through the connector body.

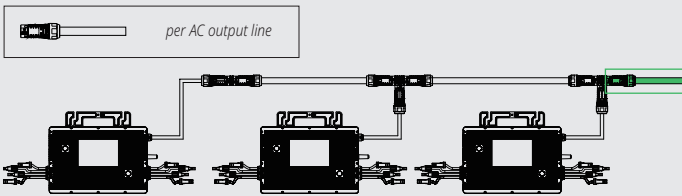


Notice: The wire insulation colors can differ between countries. When wiring, it's important to follow the national and site-specific wiring code to connect the cable into the connector body.

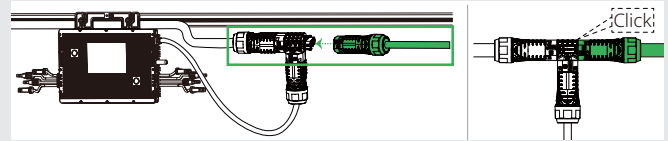
f. Slide the cover, gasket, and nut over the cable assembly. Then tighten the nut to 5.0 ± 0.5 N·m using the HMT Disconnect Tool.



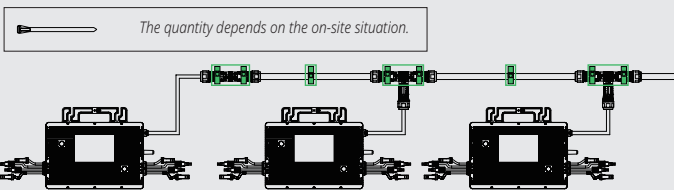
5 Connect the AC End Cable



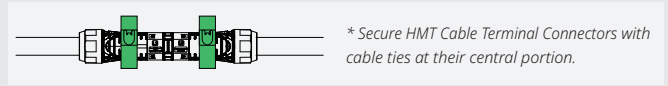
Connect the AC End Cable to the last HMT Trunk Connector in the AC Trunk. Listen for a click as they engage.



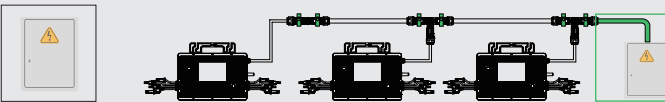
6 Manage the AC Trunk



Secure all cables and connectors to the racking with metal cable ties, following local wiring regulations for tie spacing.



7 Connect to the Distribution Box



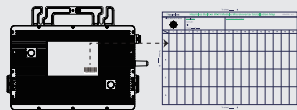
Adhere to local wiring regulations to connect the other end of the AC End Cable to the distribution box.

L1	L2	L3	N	PE
Brown	Black	Gray	Blue	Green&Yellow

DC Side Electrical Installation

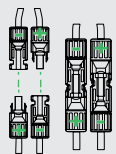
1 Complete the Installation Map

- Peel off the microinverter's removable SN label.
- Affix the label to the respective location on the installation map.



2 Connect the PV Modules

- Mount the PV modules above the microinverters.
- Connect the DC leads of PV modules to the corresponding DC inputs on the microinverters.



Start-up

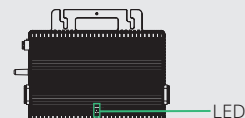
1 Energize the System

- Turn **ON** the AC disconnect or circuit breaker for each output line.
- Turn **ON** the main utility-grid AC circuit breaker. Wait five minutes for the system to start producing power.

2 Check the LED Status

Check the LED on the connector side of the microinverter.

LED	Five green flashes (0.3s gap)	Fast green flashing (1s gap)	Red flashing (1s gap)
Indicate	Start-up Success	Producing Power	AC Grid Fault



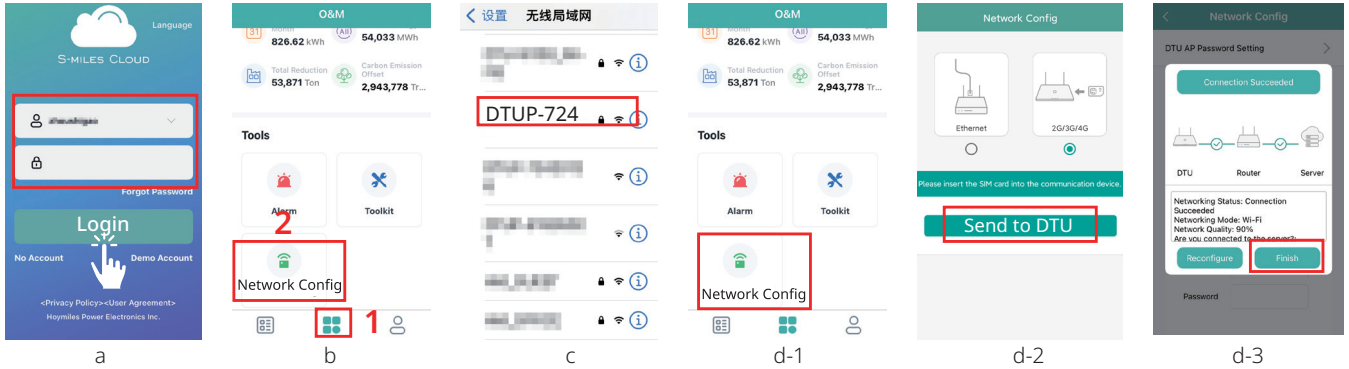
* The product proportions have been adjusted to enhance the illustration of the structure.

Monitoring Settings

Warning:
 • The screenshots provided here are for reference only. The actual screens may vary.
 • The DTU's network name includes "DTUP/DTUL/DTU" followed by the product serial number and is password-free by default.

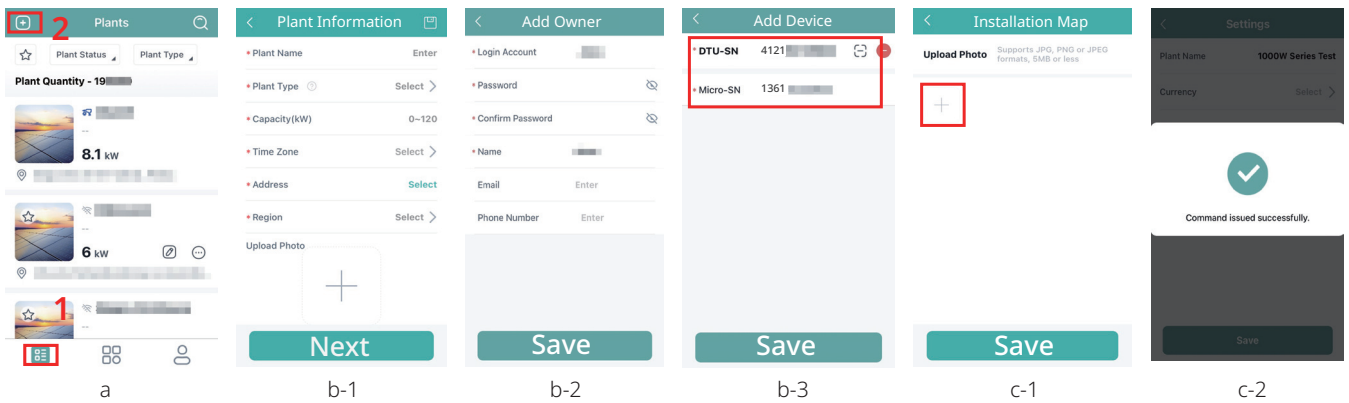
1 Connect to the Internet

- Open and log in to the S-Miles Installer app using your credentials. This will take you to the homepage.
- On the homepage, tap the **O&M > Network Config** icon. This will take you to the WLAN page.
- On the **WLAN** page, select the DTU's hotspot. (The network name of the DTU consists of DTUP/DTUL/DTU and the SN, and is password-free by default.)
- Back to the **O&M** page, click the **Network Config** icon again, and follow the prompts to configure the network connection.



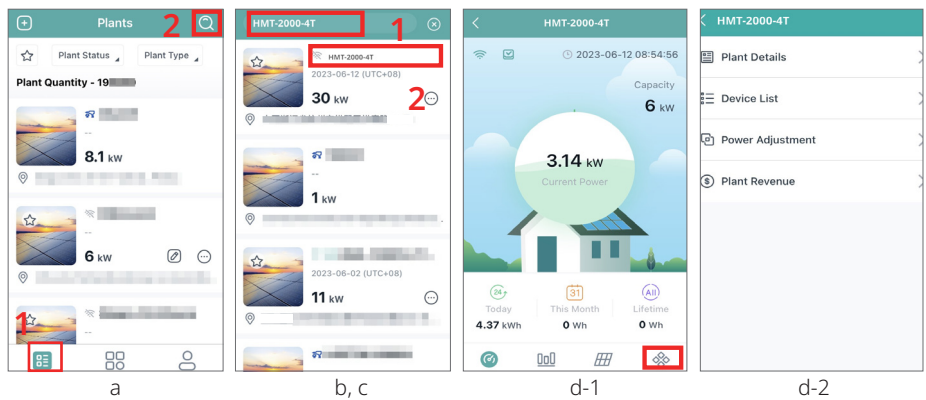
2 Create a Power Plant

- Back to the **Plants** screen, tap the **Add Plant** icon.
- Follow the prompts to fill in the required information.
- Tap the **Save** button to finalize the power plant creation.



3 Set Your Power Plant

- Navigate to the **Plants** screen, tap the **Search** icon.
- Enter the desired plant name for your search.
- Tap the plant name to move to the plant homepage.
- On the plant homepage, tap the **Setting** icon.



Item	Description
Plant Details	This function offers access to geographical location, system capacity, and owner information about your power plant.
Device List	This function provides an SN list of devices installed in your power plant.
Power Adjustment	This function offers access to adjust the Active Power.
Plant Revenue	This function provides revenue data over the electricity price, real-time power production data, and historical power production data.

