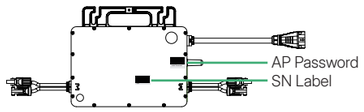
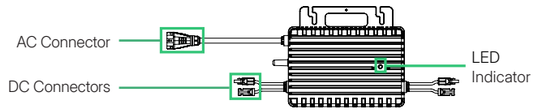
HMS-W 2-in-1 Series Microinverter Quick Installation Guide

** Applicable for HMS-600W/700W/800W/900W/1000W-2T Microinverters*

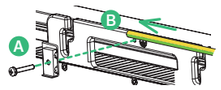
1. Product Overview





2. Safety Instructions

- Read and follow all safety warnings and instructions in this guide and the user manual. You can find all related documents in our download center.
- Always install the microinverter in a well-ventilated location. Leave at least 2 cm around the microinverter for heat dissipation.
- Mount the microinverter beneath PV modules to avoid direct exposure to rain and sunlight.
- Ensure the system is properly grounded and complies with all local electrical regulations. The microinverter's AC cable includes a PE wire for direct grounding. If additional grounding is required, follow the instructions shown on the right to install the grounding clamps.



3. Single-Microinverter System Installation Steps

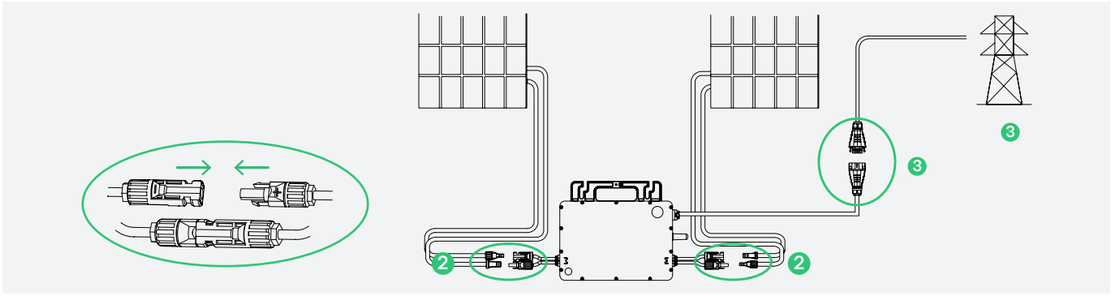
The single-microinverter system consists of one microinverter and two PV modules.

Preparation

Prepare the following tools and items.

	Socket Connection	Distribution Box Connection
Tools	Personal Protective Equipment, M8 Screws, Electrical Screwdriver (2-9 N·m)	Personal Protective Equipment, M8 Screws, Electrical Screwdriver (2-9 N·m), Diagonal Cutter, Wire Stripper, Crimp Ferrules (1.5 mm^2), Crimping Tool (1.5 mm^2), Torque Wrench (1.5-3 N·m), Cable Ties
Items	Flex-S3 Plug and Play Cable-CEE7/7, Flex-S3 Disconnect Tool	Flex-S3 Field Connector, Flex-S3 Disconnect Tool, AC Cable* *Note: We recommend you use an outdoor-rated AC cable with an outer diameter of 8 to 9.5 mm. Select the cable length based on the distance between your system and the distribution box.*

Procedure



Step 1: Secure the microinverter (label side up) with M8 screws (torque: 9 N·m).

Step 2: Connect the microinverter to PV modules.

A) Peel off the removable SN label and affix it to the installation map. Keep the map properly for your records.

B) Record the microinverter's initial AP password for system monitoring.

C) Connect the microinverter's positive connector (female, "–" sign) to the PV module's positive terminal (male), and the microinverter's negative connector (male, "+" sign) to the PV module's negative terminal (female).

D) Mount the PV modules above the microinverter.

Step 3: Connect the AC End Cable to the Utility.

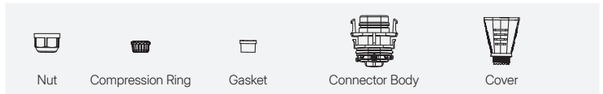
- Socket connection: Connect one end of the Flex-S3 Plug and Play Cable-CEE/7/7 to the microinverter's AC connector, and the other end to the AC socket.
- Distribution box connection:

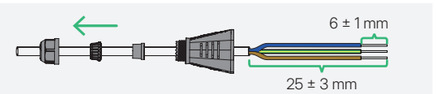
A) Make the AC End Cable.

a. Disassemble the Flex-S3 Field Connector into five parts.

b. Take an AC cable and slide the nut, compression ring, gasket, and the cover over the AC cable in order.

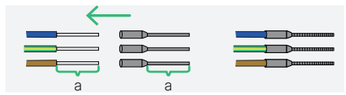
c. Cut the outer jacket by 25 ± 3 mm. Strip insulation to expose 6 ± 1 mm of the conductors.

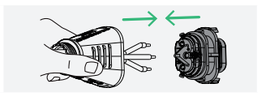


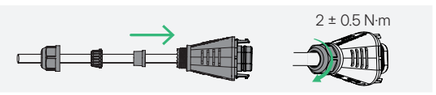


d. Insert the stripped conductor ends into the ferrule slots, crimp them securely, and insert the crimped ends into the connector body.

e. Slide the cover, gasket, compression ring, and nut into place and tighten the nut to 2.5 ± 0.5 N·m.







B) Follow local wiring regulations to connect the other end of the AC End Cable to the distribution box.

Step 4: Power on the microinverter system.

A) Turn ON all AC disconnect switches or circuit breakers.

B) Wait about five minutes for the system to start generating power. A fast green flash (one-second interval) indicates normal operation.

LED Indications		
LED Status	**Time Gap**	**Meaning**
Five Green Flashes	0.3s	Start-up Success
Green Flashing	1s	Producing Power
Red Flashing	1s	AC Grid Fault

4. Multi-Microinverter System Installation Steps

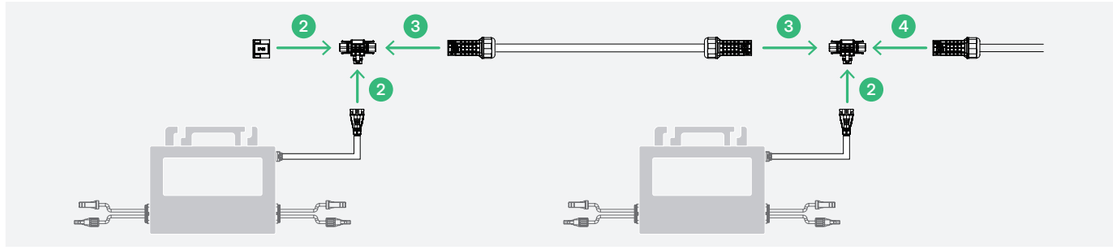
A multi-microinverter system consists of multiple microinverters, each paired with two PV modules.

Preparation

Prepare the following tools and items.

Tools	Items
Personal Protective Equipment, M8 Screws, Electrical Screwdriver (2-9 N·m), Diagonal Cutter, Wire Stripper, Crimping Tool (2.5/4/6 mm^2), Torque Wrench (1.5-3 N·m), Cable Ties	Flex-S3 Sealing Cap, Flex-S3 Trunk Connector, Flex-S3 Extension Connector, Flex-S3 Connection Cable, Flex-S3 Cable Terminal Connector, Flex-S3 Disconnect Tool, AC Cable* *Note: We recommend you use an outdoor-rated AC cable with an outer diameter of 16.5 mm or less. Select the cable length based on the distance between your system and the distribution box.*

Procedure

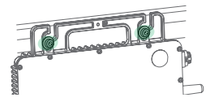


Step 1: Secure the microinverter (label side up) with M8 screws (torque: 9 N·m).

A) Plan and mark the position of each microinverter on the mounting rack.

B) Place each microinverter (label side up) on the mounting rack at the marked position.

C) Secure each microinverter to the mounting rack using M8 screws (torque: 9 N·m).



Step 2: Connect the AC trunk connectors.

A) Connect the Flex-S3 Trunk Connectors to the microinverters.

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B) Seal the unused port at the beginning of the AC trunk line with a Flex-S3 Sealing Cap. Listen for a click as they engage.

Step 3: Use Flex-S3 Connection Cables to connect adjacent microinverters one by one. Listen for a click as they engage.

Note: If you need to space microinverters farther apart, we offer you two solutions.

- *Using a longer Flex-S3 Connection Cable (available lengths: 1.1 m, 2.0 m, 2.3 m, 3.0 m, and 4.6 m). Please contact the Hoymiles sales team at sales@hoymiles.com if you need a specific length.*
- *Using a Flex-S3 Extension Connector to join two Flex-S3 Connection Cables to create a longer cable.*

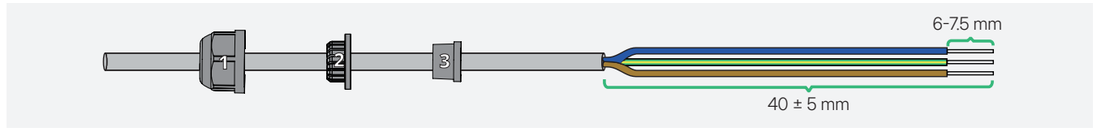
Step 4: Connect the AC End Cable to the Utility.

A) Make the AC End Cable.

a. Disassemble the Flex-S3 Cable Terminal Connector into six parts.

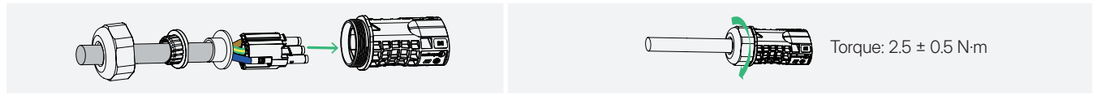
b. Take an AC cable and slide the nut, compression ring, and gasket over the cable in order.

c. Cut the outer jacket by 40 ± 5 mm. Strip insulation to expose 6–7.5 mm of the conductors.



d. Insert the exposed conductors into the terminal pins, crimp them, and push the crimped ends into the connector body.

e. Insert the connector body into the cover. Slide the gasket, compression ring, and nut over the AC cable. Tighten the nut to 2.5 ± 0.5 N·m.

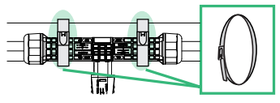


B) Connect the assembled AC End Cable to the final Flex-S3 Trunk Connector. Listen for a click as they engage.

Step 5: Manage the AC trunk.

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

Note: Fasten the cable ties around the center section of the connectors.



Step 6: Connect to the distribution box.

Verify the AC End Cable wiring color codes are correct: L-Brown, N-Blue, and PE-Green&Yellow.

Note: The wiring code may vary. Always follow the local regulations for wiring.

Step 7: Connect the microinverters to PV modules.

A) Peel off the removable SN label and affix it to the installation map. Keep the map properly for your records.

B) Record each microinverter's initial AP password for system monitoring.

C) Connect the microinverter's positive connector (female, "–" sign) to the PV module's positive terminal (male), and the microinverter's negative connector (male, "+" sign) to the PV module's negative terminal (female).

D) Mount the PV modules above the microinverters.

Step 8: Power on the microinverter system.

A) Turn ON the AC disconnect or circuit breaker for each AC output line.

B) Turn ON the main utility-grid AC circuit breaker.

C) Wait about five minutes for the system to start generating power. A fast green flash (one-second interval) indicates normal operation.

LED Indications		
LED Status	**Time Gap**	**Meaning**
Five Green Flashes	0.3s	Start-up Success
Green Flashing	1s	Producing Power
Red Flashing	1s	AC Grid Fault

Contact: hoymiles.com/
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5. Monitoring and Control

Preparation

- Download the S-Miles Installer app to monitor your system. You can scan the QR code on the right or search "S-Miles Installer" in the App Store (iOS) or Google Play (Android).
- Make sure your router's Wi-Fi name contains only letters and numbers.
- For detailed monitoring and setup instructions, visit our Download Center to get the S-Miles Cloud user manual or the microinverter user manual.

Download Center | App QR Code

Connecting the Microinverters to the S-Miles Cloud Platform via Wi-Fi

A) Open and log in to the S-Miles Installer app using your credentials.

B) Tap > **Network Config** .

C) Tap the white area below **Via Wi-Fi**.

D) Select the microinverter's Wi-Fi network (name: DTUBI-[last 8 digits of the SN]) and enter its AP password.

E) Return to the App, and set the new AP password.

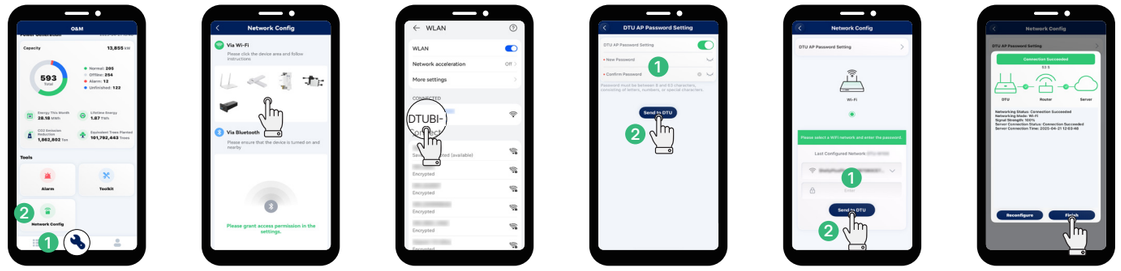
F) Wait about 30 seconds, then reconnect to the microinverter's Wi-Fi using the new password.

G) Return to the App, and tap **Network Config** . Select or enter your router's Wi-Fi name, and enter the password. Then tap **Send to DTU**.

Note: For a dual-band router, connect to the 2.4 GHz network (e.g., network named "RouterName-2.4G").

H) Wait for the connection to complete. Then tap **Finish**.

I) Follow instructions in the user manual to create an online power plant.



Local Commissioning via Wi-Fi AP

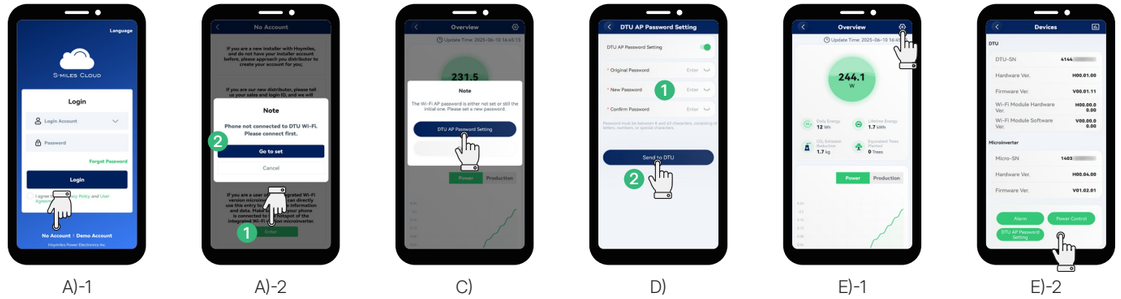
A) Open the S-Miles Installer app. Tap **No Account** > **Enter** > **Go to set**.

B) Select the microinverter's Wi-Fi network (name: DTUBI-[last 8 digits of the SN]) and enter its AP password.

C) Return to the App, and tap **DTU AP Password Setting**.

D) Reset the AP password and tap **Send to DTU**.

E) Tap . Then tap **Alarm**, **DTU AP Password Setting**, or **Power Control** to monitor and manage the microinverter.



Regulatory Compliance Statement

CE Declaration of Conformity

Hoymiles Microinverter (model: HMS-600W/700W/800W/900W/1000W-2T) is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Operating Frequency (at maximum transmitting power): 2.400 to 2.4835 GHz, ERP≤20 dBm.

EU Declaration of Conformity

Hoymiles Microinverter (model: HMS-600W/700W/800W/900W/1000W-2T) is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU, and (EU)2015/863.

The original EU Declaration of Conformity may be found at www.hoymiles.com.

Contact: hoymiles.com/