MIS-2500-W Pro Series Quick Installation Guide

**Applicable to MIS-2250/2500-W Pro microinverter*

1. Preparation

❶ Check the parts

AC Cable	Flex-S3 Sealing Cap	Flex-S3 Trunk Connector
Flex-S3 Extension Connector	Flex-S3 Connection Cable	Flex-S3 Cable Terminal Connector

Note: We recommend you use an outdoor-rated AC cable with an outer diameter of 16.5 mm (0.65 inches) or less. Select the cable length based on the distance between your system and the distribution box.

❷ Check the tools

Scissor	Measuring Tape	Marker	Personal Protective Equipment
M8 Screws	Wire Stripper	Cable Cutter	Flex-S3 Disconnect Tool
Cable Ties	Crimping Tool 2.5/4/6 mm²	Torque Wrench 1.5 to 3 N·m (13 to 27 in-lb)	Electric Screwdriver 2 to 9 N·m (18 to 80 in-lb)

❸ Plan the number of microinverters per AC output line

	MIS-2250-W Pro	MIS-2500-W Pro
2.5 mm^2	2 @ 220 V	2 @ 220 V
4 mm^2	3 @ 220 V	3 @ 220 V
6 mm^2	3 @ 220 V	3 @ 220 V

Note: Limits are determined based on the AC cable ampacity, which can vary. Check the local codes to determine the exact limits.

2. Mechanical Installation

❶ Attach the microinverters to the PV racking

A) Plan and mark the positions of each microinverter on the PV racking.

Note: • This section specifies the microinverter installation location for one type of PV module installation method. For the requirements of other solutions, refer to the appendix.

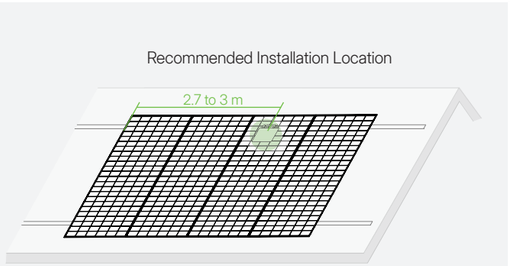
• Always place the microinverter under the PV module, protected from direct exposure to rain, sun, and other harmful weather events.

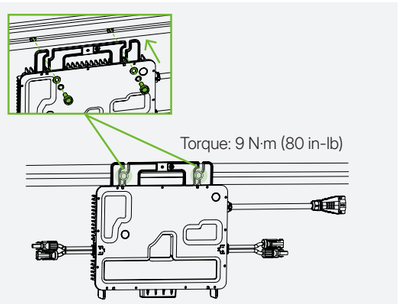
• Leave as much space between the microinverter and the roof as you can for reliable communication.

• Allow at least 2 cm (0.79 inches) of space around the microinverter for ventilation and heat dissipation.

B) Slide the T-nuts along the racking until they line up with the marked positions.

C) Secure each microinverter (label side up) to the racking using M8 screws.

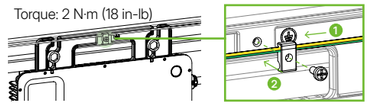




❷ (Optional) Make an external grounding connection

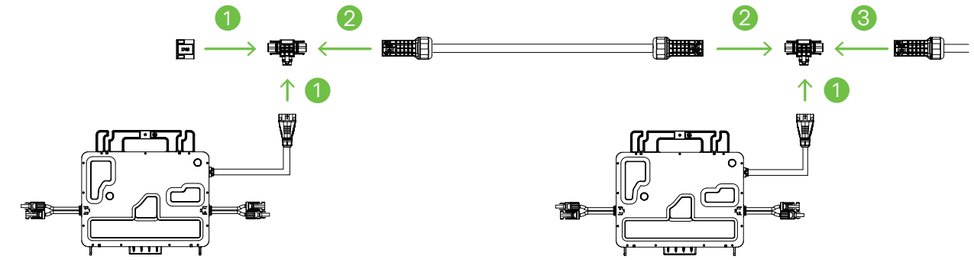
The AC cables already include PE wires for direct grounding.

If external grounding is required at your installation site, you can order the grounding accessory by emailing sales@hoymiles.com.



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3. AC Electrical Connection



❶ Connect the AC Trunk Connectors

A) Connect the Flex-S3 Trunk Connectors to the AC Connectors of the microinverters. Listen for a click as they engage.

B) Cover the unused port on the Flex-S3 Trunk Connector with the Flex-S3 Sealing Cap. Listen for a click as they engage.

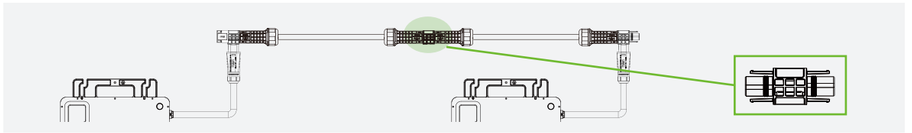
❷ Connect adjacent microinverters

Use Flex-S3 Connection Cables to connect adjacent microinverters on the AC Trunk one by one. Listen for a click as they engage.

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

** Using a longer Flex-S3 Connection Cable. Hoymiles offers cable lengths including 1.1 m (3.6 feet), 2.0 m (6.6 feet), 2.3 m (7.5 feet), 3.0 m (9.8 feet), and 4.6 m (15.1 feet). If you need a specific length, contact sales@hoymiles.com.*

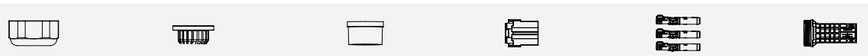
** Using a Flex-S3 Extension Connector to join two Flex-S3 Connection Cables to create a longer cable.*



❸ Connect the AC End Cable

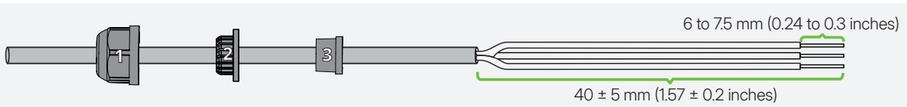
A) Prepare the AC End Cable

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.

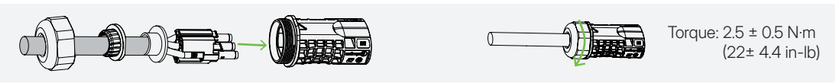
c. Cut the outer jacket by 40 ± 5 mm (1.57 ± 0.2 inches). Strip the insulation to expose 6 to 7.5 mm (0.24 to 0.3 inches) of the conductors.



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. Then tighten the nut.

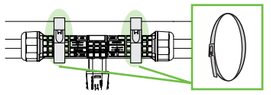


B) Connect the AC End Cable to the final Flex-S3 Trunk Connector. Listen for a click as they engage.

❹ Secure the cables and connectors to the racking

Note: • Follow local wiring regulations for tie spacing.

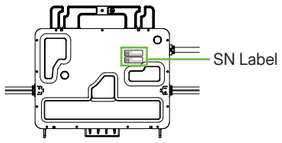
• The cable ties should be fastened around the center section of the connectors.



❺ Connect the other end of the AC End Cable to the distribution box

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

4. DC Electrical Connection



❶ Complete the installation map

A) Peel off the SN label on each microinverter

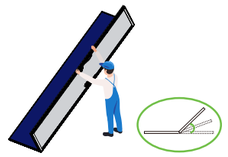
B) Affix the labels to the respective locations on the installation map.

❷ Connect the PV modules

Note: This section takes one type of PV module installation method as an example. For more solutions, refer to the appendix.

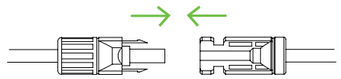
Repeat the steps below to connect the four modules in sequence:

A) Move the PV module to the installation location and lift the right side.

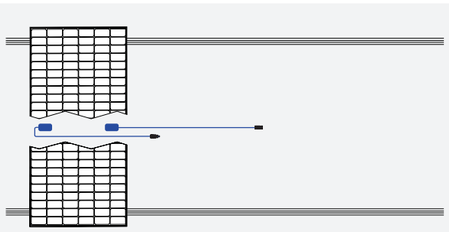


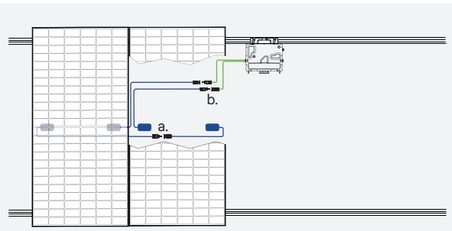
B) Route out the DC cables of the module and the microinverter for subsequent connection, or connect the DC connectors.

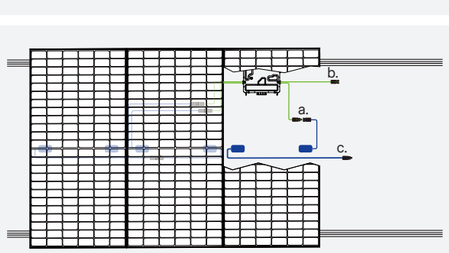
Note: Ensure that you connect the female MC4 connector to the male MC4 connector.



C) Secure the cables and connectors to the racking, lay down and fix the module.









5. Start-up

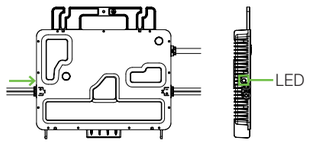
❶ Power on the system

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

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

❷ Check the LED status

If the microinverter starts successfully, the LED indicator will flash green for five times.



6. Microinverter Connection

Note: • The screenshots provided here are for reference only. The actual screens may vary.

• For more details about App operation, visit www.hoymiles.com/in/download-center.html to access the S-Miles Cloud (App) User Manual.

A) Scan the QR code on the right to download the S-Miles Installer App.

B) Open and log in to S-Miles Installer using your credentials.

C) Tap **O&M** > **Toolkit** .

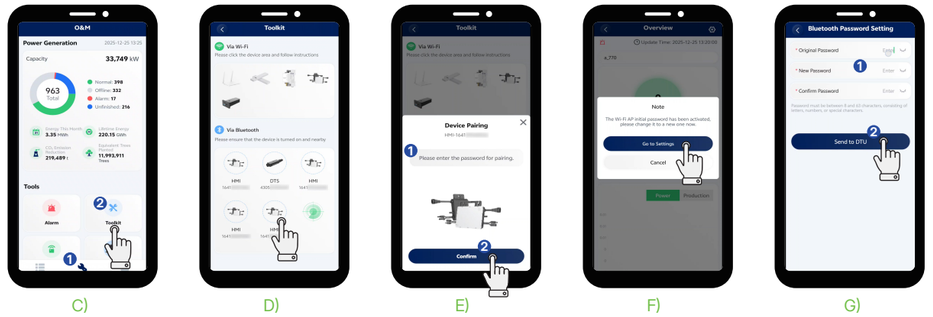
D) Verify the SN below the microinverter icon, and tap the icon.

E) Enter the AP password (123456 by default), and tap **Confirm**.

F) Tap **Go to Settings**.

G) Set the new AP password, and tap **Send to DTU**.

H) Go back to the Q&M Screen. Repeat step C) to E), but enter the new AP password.



C) D) E) F) G)

7. Plant Creation

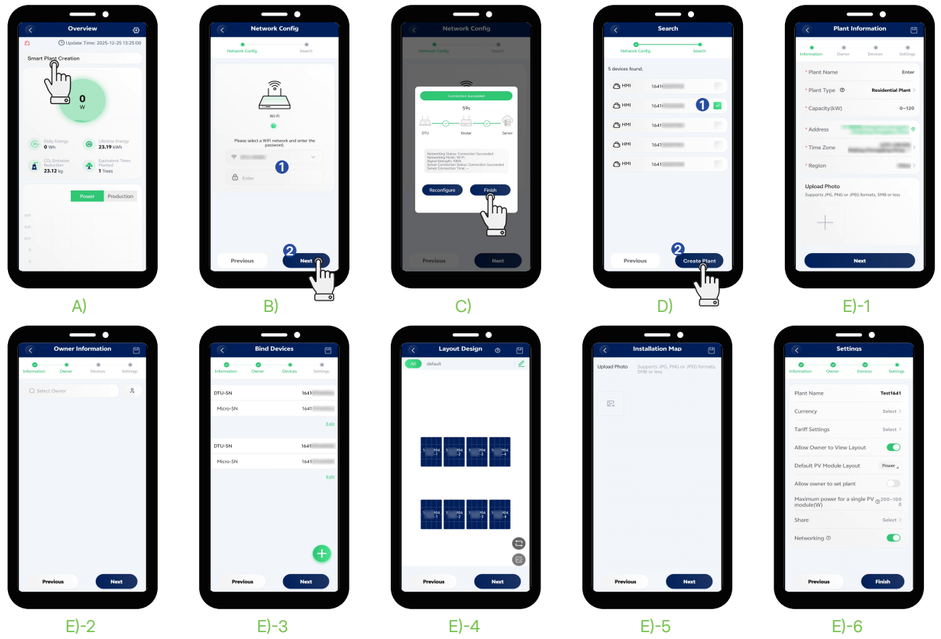
A) Tap **Smart Plant Creation**.

B) Enter or select the Wi-Fi name, enter the password, and tap **Next**.

C) When connected, tap **Finish**.
The system will search for all microinverters connected to this network.

D) Check all microinverters to be added, and tap **Create Plant**.

E) Follow the prompts to fill in the required information, and tap **Finish** to complete the plant creation.

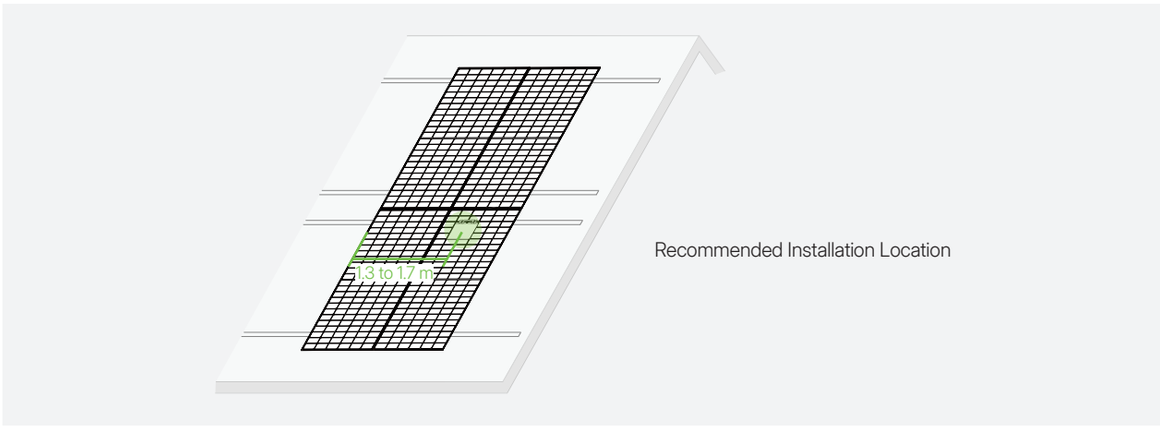


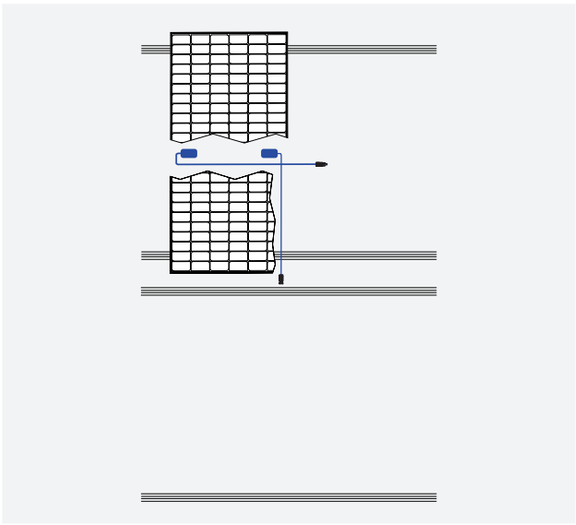
A) B) C) D) E)-1

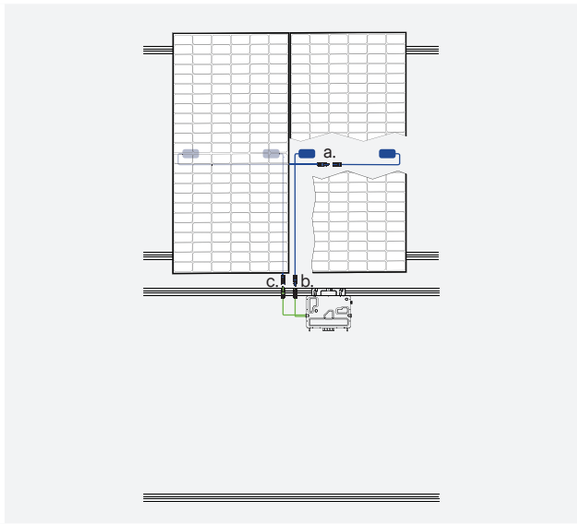
E)-2 E)-3 E)-4 E)-5 E)-6

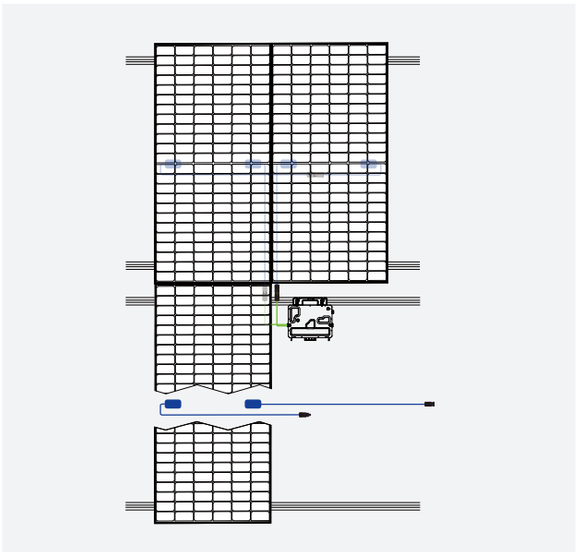
Appendix: More Solutions for PV Modules Installation

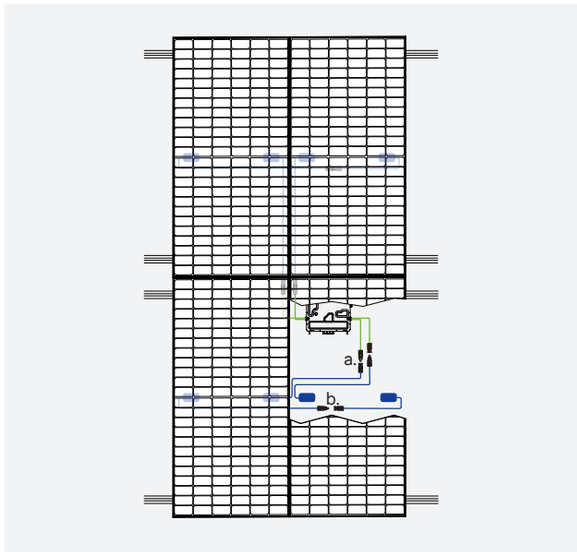
Method 1











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Method 2

For this method, you need to lift the lower side of the PV modules. Ensure that there is sufficient space for standing beneath the bottom row of PV modules.

