Open Energy for All



Single-phase Microinverter

USER MANUAL

MIS-2250-W Pro
MIS-2500-W Pro
MIS-2750-W Pro

Legal Notice

Hoymiles has made every effort to ensure the accuracy and completeness of this manual. However, this manual may be changed and revised due to product enhancements or user feedback.

Hoymiles reserves the right to modify this manual without prior notice at any given time. The latest version of this manual can be found by visiting the Hoymiles official website (www.hoymiles.com) or scanning the QR Code below.

Emission Compliance

This equipment has been tested and found to comply with the limits applied by the local regulations. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

** Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.*

Warranty

Follow the installation instructions in this manual to ensure warranty compliance and reliability. The current warranty conditions can be accessed at www.hoymiles.com.

Contact Us

If you have technical queries or any questions concerning our products, please contact our support through the Hoymiles service portal:

Spanish-speaking countries
service.mx@hoymiles.com

Brazil
service.br@hoymiles.com

Brazil
+55 1148585231

hoymiles.com

Using This Manual

Symbols

·	List (first level)
▷	List (second level)
Step 1, Step 2, ...	Operation steps in a defined order
A), B), C) ...	Operation steps in a defined order

Abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
AC	Alternating Current	PPE	Personal Protective Equipment
DC	Direct Current	PV	Photovoltaic
MPPT	Maximum Power Point Tracking	SN	Serial Number
O&M	Operations and Maintenance	-	-

** Unless otherwise stated, the devices mentioned in this manual are referred to using the abbreviations defined above.*

Revision History

Version	Description
REV1.1	This issue marks the initial official release.

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1 About This Manual

1.1 Purpose

This manual provides information on the installation, electrical connections, operation, and maintenance of the microinverter.

Please consider the following before installation:

- Carefully read this manual before operation.
- Keep this manual for reference.

1.2 Audience

This manual is intended for use by qualified persons only. Qualified persons must have the following skills:

- Understanding of microinverter operations and related functionalities.
- Knowledge of microinverter installation, use, and maintenance.
- Competence in handling risks occurring in microinverter installation, use, and maintenance.
- Familiarity with local electrical codes and regulations.

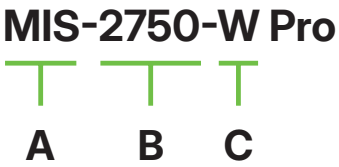
1.3 Validity

This manual is valid for:

Model	Rated Output Power (VA)
MIS-2250-W Pro	2250
MIS-2500-W Pro	2500
MIS-2750-W Pro	2750

NOTE

Model identifier:



[A]: Series Name

[B]: Output Power Level

[C]: Features (built-in Wi-Fi and Bluetooth module)

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2 Safety Instructions

2.1 Safety Symbols

Safety symbols are used in this manual as follows:

Symbol	Description
DANGER	This symbol indicates potential risks that, if not avoided, may lead to death or serious physical injury.
WARNING	This symbol indicates potential risks that, if not avoided, may lead to personal injury or device damage.
CAUTION	This symbol indicates potential risks that, if not avoided, may lead to device malfunctions or financial losses.
NOTICE	This symbol indicates potential risks that, if not avoided, may lead to minor injury or damage to the equipment.
NOTE	This symbol indicates an important step or tip that leads to the best results but is not safety or damage-related.

2.2 Additional Symbols

The product label contains the following symbols with their meanings described below:

Icon	Explanation
	**Treatment** Electrical equipment that has reached the end of life must be collected separately and returned to an Approved recycling facility to comply with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment and its implementation as national law. Return any devices you no longer need to an authorized dealer or an Approved collection and recycling facility.
	**Caution** Risk of electrical shock. Wait at least 5 minutes after the microinverter is disconnected from all external power supplies before starting maintenance.
	**High Voltage** Microinverters may contain high voltages, causing a risk of death.
	**Hot Surface** The microinverter may become hot during operation. Do not touch metal surfaces.
	**Read the manual first** Read this manual carefully before performing any installation, operation, or maintenance.

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2.3 Safety Instructions

The microinverter has been designed and tested in compliance with international safety standards and thus requires careful installation and operation. Installers must carefully read and strictly follow the safety instructions in this section. Failure to do so may result in:

- Injury or death to the installer or operator
- Damage to the microinverter

⚠ DANGER

General

- All installation, start-up, troubleshooting, maintenance, and all other operations must be performed by a licensed electrician and follow local wiring codes.
- Always use personal protective equipment (PPE), like gloves and goggles, during installation.
- The microinverter should only be used when all technical parameters are observed and applied correctly. (You can refer to 8 Technical Data for more details.) Improper use of the microinverter will void the warranty.

Installation

- Do not use microinverters in a manner not specified by the manufacturer.
- Do not install the equipment in flammable, explosive, corrosive, extreme heat/cold, or humid environments.
- Each microinverter input should only be connected to a single PV module. Do not connect batteries or other power supply sources. These unsupported devices have different output characteristics that differ from standard PV modules, potentially damaging the microinverters and posing safety hazards.
- Do not use the equipment in environments where safety devices are not working properly.
- Do not use the equipment if any unusual operations are detected.
- Check and ensure that all AC and DC wiring is correctly installed and free from any tangles, shorts, or damages.
- Hoymiles shall not be liable for any damages caused by incorrect or improper operations.
- Ensure that none of the DC conductors or DC connectors are exposed.

Maintenance

- Do not attempt to repair the product as it contains no user-serviceable parts. If it malfunctions, contact Hoymiles Support to obtain a return merchandise authorization number and start the replacement process. Tampering with or opening the microinverter will void the warranty.
- Always de-energize the whole system before any maintenance. Do not disconnect the AC and DC connectors under load.
- Maintain extreme caution even if the microinverter is disconnected from the grid. Hazardous voltages may still be present in some components.

⚠ WARNING

General

- Disconnect the microinverter from all power supplies before making or modifying any device connections.
- Only authorized maintenance personnel from Hoymiles can install or replace this product.

Installation

- Make sure to obtain all necessary Approvals from electrical network operators before connecting the microinverter to the power grid or energizing the AC circuits.
- Install the microinverter beneath the PV module. Avoid exposing the AC and DC connectors to rain or moisture before the connectors are engaged to protect them from rain, UV, and adverse weather conditions.

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⚠ WARNING

- Use the Hoymiles Compatibility Calculator to verify the electrical compatibility of PV modules with microinverters. To maintain the Hoymiles warranty, only use Hoymiles microinverters with the compatible PV modules shown on the Hoymiles Compatibility Calculator.
- Make sure that the PV module's maximum open circuit voltage falls within the maximum DC input voltage of the microinverter. (You can refer to 8 Technical Data for more details.)
- Improper use, incorrect installation, or unauthorized removal of necessary protections may result in damage to the equipment or serious safety and electric shock hazards.
- Microinverter surfaces can reach high temperatures during operation and within a short time after powering off the whole system. Avoid direct contact with these surfaces.
- Do not expose the cables or cable connectors to continuous immersion.
- Prevent any contaminants or debris from entering the connector.

Maintenance

- Equipment maintenance should only be performed by the Hoymiles Service Team, a repair team authorized by Hoymiles, or by authorized personnel familiar with all warnings and operating procedures contained in this manual.
- The surface of the microinverter may become hot during operation or shortly after power-off. To reduce the risk of burns, use caution when working with the microinverter.

⚠ CAUTION

Installation

- Before installation, inspect for transportation damages compromising insulation integrity and safety clearances.
- Do not remove or cover any warning labels or nameplates on the microinverter.
- Lift the microinverter carefully. Take the weight of the microinverter into account.
- Follow the wiring safety instructions to ensure proper polarity and secure connections.
- Inspect the microinverter system for functionality and performance after installation. Double-check the electrical connections, communication status, and monitoring features.

Maintenance

- The microinverter packaging has been intentionally designed to be reusable. Retain the packaging for future use.
- Do not clean the equipment with filamentary or corrosive material-based rags to prevent corrosion and electrostatic charges.

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3 Product Information

3.1 Overview

Functions

The Hoymiles MIS-2750-W Pro series microinverter is designed for high-powered PV modules, delivering an output power of up to 2750 VA to significantly boost system power generation efficiency. It supports hassle-free plug-and-play installation, and the included 600 mm (23.62 inches) DC cable eliminates the need for extensions, greatly saving your costs and installation time. Additionally, its built-in Wi-Fi & Bluetooth module enables direct and reliable communication with the S-Miles Cloud.

Features

❶ Enhanced Performance and Increased Returns

- 98.0% peak effiecency
- Operates at 45 °C (113 °F) with no power derating
- Next-generation topology DAB

❷ Comprehensive Reliability

- Low failure rate
- Backed by 10000+ hours of testing
- 12-year warranty

❸ Easy & Cost-Effective Installation

- One-tap sync of settings to all devices
- Equipped with 600 mm DC cables
- Plug and play connection

❹ Robust and Responsive Support Services

- Local technical support at Brazil and Mexico
- S-Miles AI assistant

How the Hoymiles Microinverters System Works

In a typical microinverter system, a few parts team up to turn sunlight into power you can use.

- **PV modules**

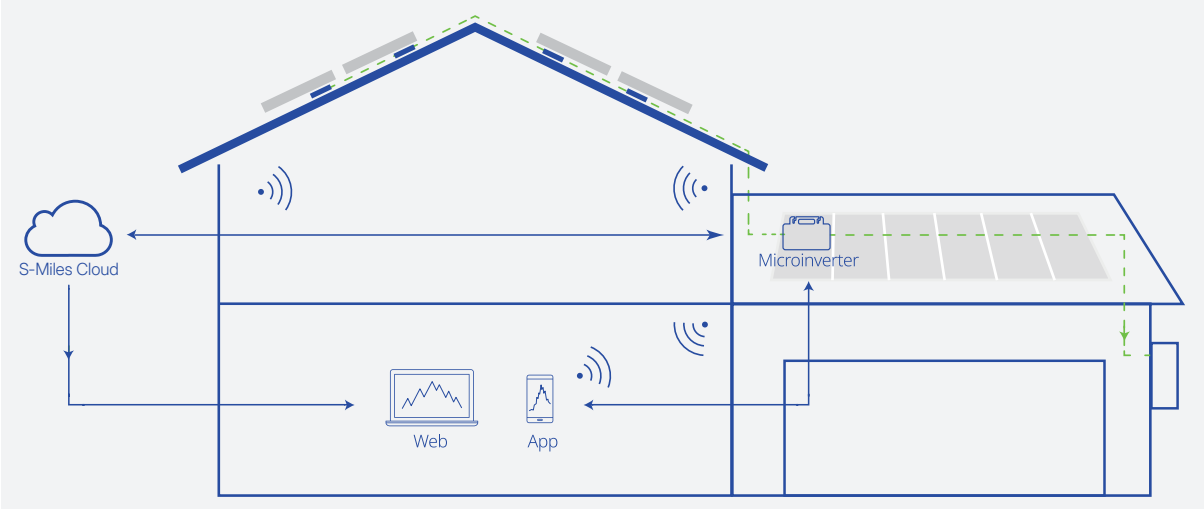
The PV modules capture sunlight and change it into DC electricity.

- **Microinverters**

Microinverters are small inverters installed directly on PV modules or nearby. They convert DC electricity from the PV modules into AC electricity, which can power homes or be fed back into the grid.

- **S-Miles Cloud**

The S-Miles Cloud is a comprehensive monitoring and analysis platform. It watches over the microinverter system from afar, providing real-time insights into the whole system's performance and enabling you to keep track of your microinverter system's status. The S-Miles Cloud also enables remote monitoring, module-level monitoring, as well as efficient operations and maintenance (O&M).



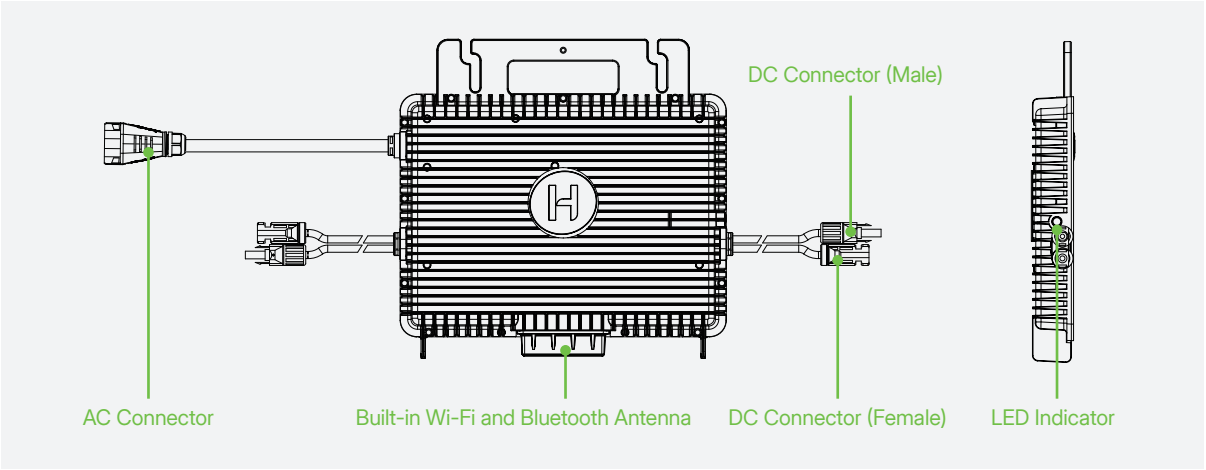
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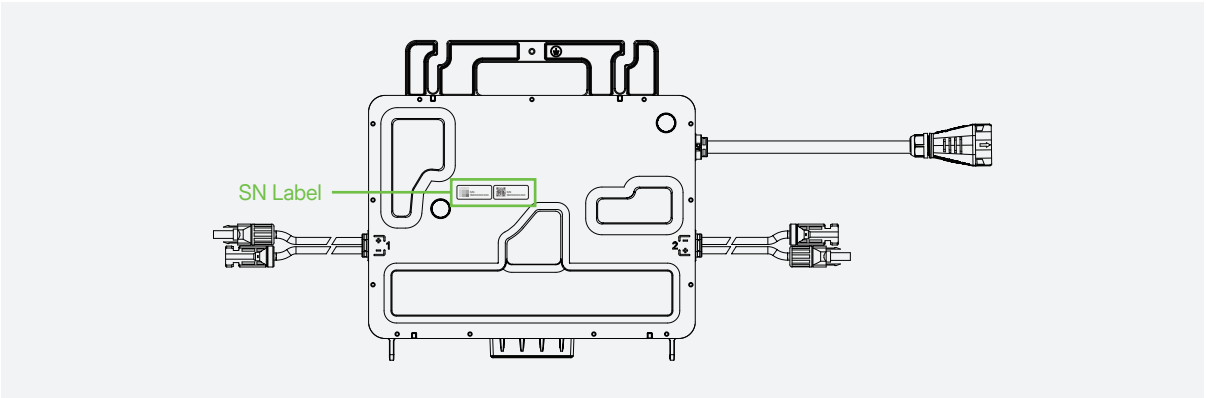
3.2 Appearance and Dimensions

NOTE

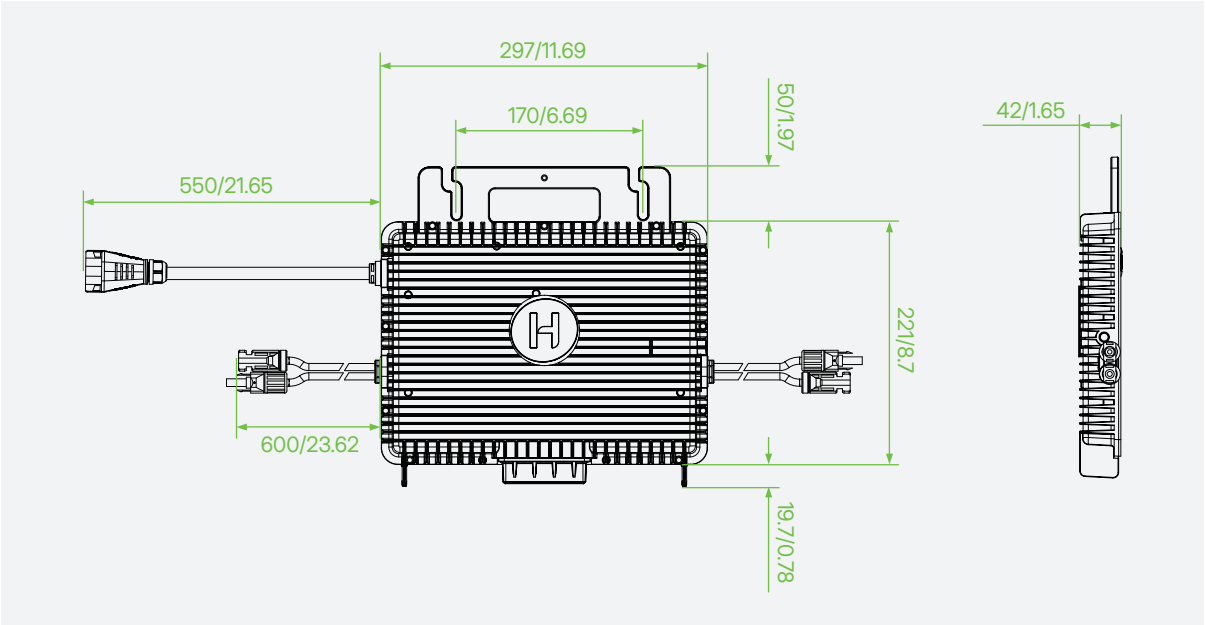
The appearance and dimensions shown here are for reference only. The actual product you receive may differ.

Appearance





Dimensions (mm/inches)



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4 Installation

4.1 Preparation

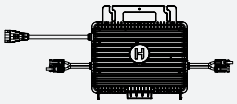
Unpacking the Box

The microinverter has been thoroughly tested and was subject to a strict inspection before delivery. However, damage may still occur during shipping.

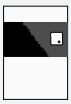
Conduct a detailed inspection after unpacking the microinverter:

- Check for any external damage
- Check and confirm that all items have been included

❶ Microinverter



❷ Quick Installation Guide



❸ Installation Map



NOTICE

Immediately contact your supplier or distributor upon noticing any damaged or missing parts.

Checking the Parts

❶ AC cable



❷ Flex-S3 Trunk Connector



❸ Flex-S3 Cable Terminal Connector



❹ Flex-S3 Sealing Cap



NOTE

Hoymiles doesn't offer the AC cable for sale. You need to buy them separately. When purchasing, ensure compliance with local regulations and consider the following guidelines:

Wire Type	Size	Cross-section Diameter
Outdoor Use, Copper Wire	2.5/4/6 mm²	≤ 16.5 mm (0.65 inches)

Checking the Tools

Scissor	Measuring Tape	Marker
M8 Screws	Wire Stripper	Cable Cutter
Cable Ties	Personal Protective Equipment	Flex-S3 Disconnect Tool
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)

Downloading the Application

Download the S-Miles Installer application. To download,

- Scan the QR code located on the right side, or,
- Search for "S-Miles Installer" on the App Store or Google Play Store



S-Miles Installer

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Planning the Microinverters

You should specify the number of microinverters per AC output line based on the AC cables' capacity.

Maximum Microinverter Number per Line			
Model / Cable Size	MIS-2250-W Pro	MIS-2500-W Pro	MIS-2750-W Pro
2.5 mm^2	2 @ 220 V	2 @ 220 V	2 @ 220 V
4 mm^2	3 @ 220 V	3 @ 220 V	2 @ 220 V
6 mm^2	3 @ 220 V	3 @ 220 V	3 @ 220 V

NOTE

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

Determining the Installation Position

Consider the following to ensure the optimal location for the microinverter:



- The microinverter meets the IP67 (NEMA 6) rating for environmental protection and can be installed indoors or outdoors.



- Shield the microinverter and DC connections from sunlight, UV, rain, snow, and other elements by installing them beneath the PV module.
- Install the microinverter beneath the PV modules to prevent power derating caused by temperature rise.



- Provide a minimum clearance of 2 cm (0.79 inches) around the microinverter enclosure to ensure proper ventilation and heat dissipation.



- Align environmental conditions with microinverter requirements specified in 8 Technical Data, including protection level, temperature, humidity, altitude, and more.



- Do not install the microinverter in:

  Areas near corrosive, flammable, or explosive materials

  Areas accessible to children or pets



- To avoid communication interference, steer clear of metal obstacles or large obstructions near the installation site of the microinverter.

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4.2 Installation Steps

DANGER

- Disconnect AC circuit breakers and ensure they are not inadvertently reconnected before making any electrical connections.
- Confirm all cables are not powered before performing cable connections.

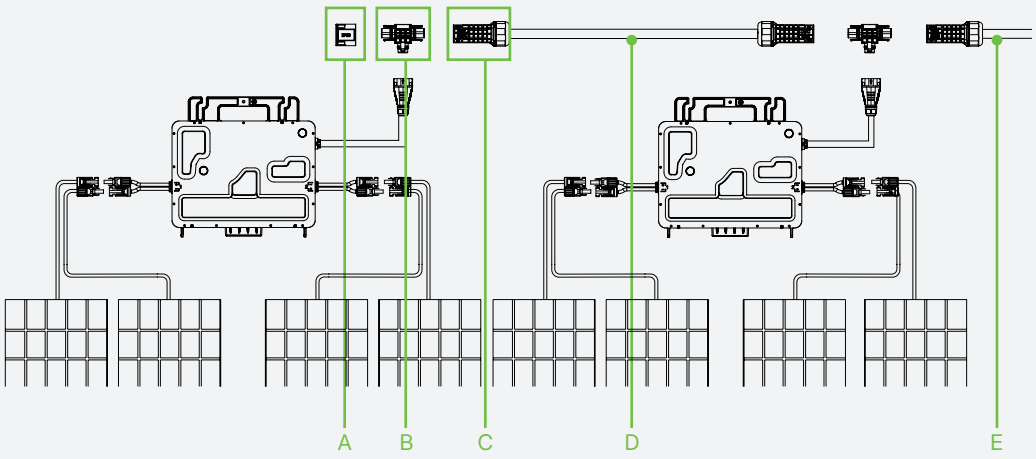
WARNING

- Leave as much space between the microinverter and any nearby surface as you can for reliable communication.
- Allow at least 2 cm (0.79 inches) of space around the microinverter for ventilation and heat dissipation.
- All electrical connections must adhere to local and national standards.
- Ensure all cables are in good condition, properly insulated, not damaged, securely attached, and of an appropriate size.
- Ensure all microinverters and inter-wiring connections are properly set up before installing the PV modules.

CAUTION

When moving the microinverter, do not pull or carry it by the AC cable. Always grasp the handle.

Assembly Diagram



[A]: Flex-S3 Sealing Cap [B]: Flex-S3 Trunk Connector [C]: Flex-S3 Cable Terminal Connector

[D]: Flex-S3 Connection Cable [E]: AC End Cable

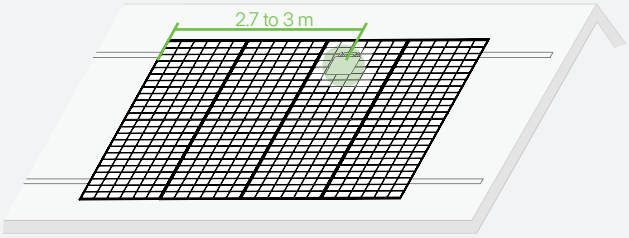
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Procedures

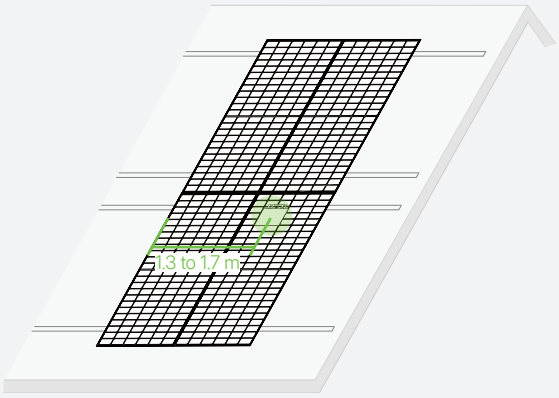
Step 1 Attach the microinverters to the PV racking

A) Select an installation method based on the on-site situation, and mark the positions of each microinverter on the PV racking.

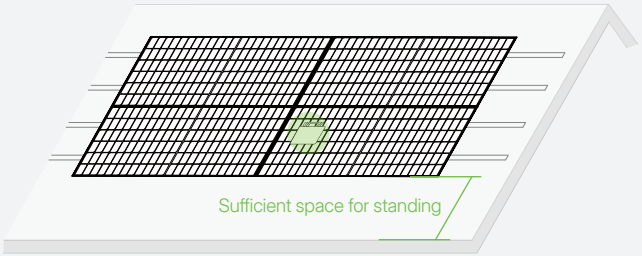
Method 1



Method 2

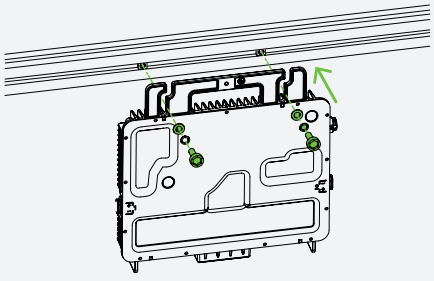


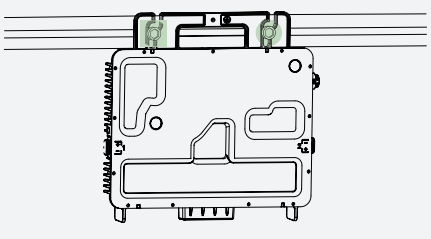
Method 3



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.

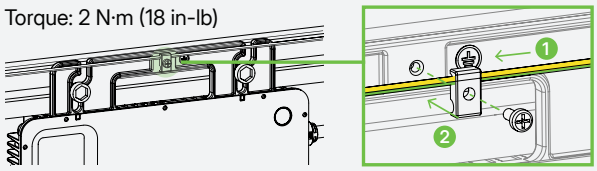




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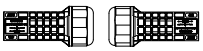
Step 2 (Optional) Make an external grounding connection

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.

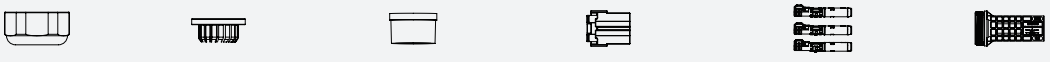


Step 3 Prepare the AC End Cable and Flex-S3 Connection Cables

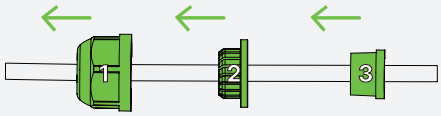
 *per AC End Cable*

 *per Flex-S3 Connection Cable*

A) Separate the Flex-S3 Cable Terminal Connector into six parts.



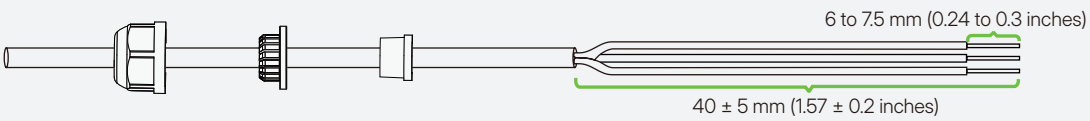
B) Slide the nut, compression ring, and gasket over the AC cable in the correct order.



NOTICE

Choose the correct terminal pin size matching the cable size to ensure a reliable and secure connection. Using the wrong size may result in potential issues or connection failures.

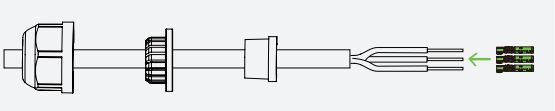
C) Strip off 40 ± 5 mm (1.57 ± 0.2 inches) of the outer jacket with a cable cutter. Then use a wire stripper to strip the insulation to expose 6 mm to 7.5 mm (0.24 to 0.3 inches) of the conductor.

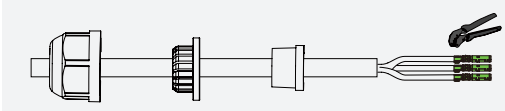


NOTE

Take care not to cut individual conductor strands.

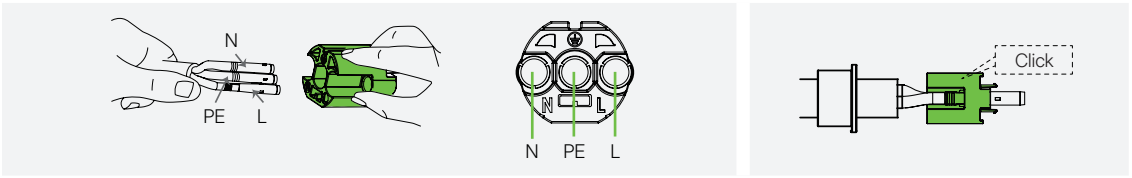
D) Insert the conductors into the terminal pins, and crimp them securely using a crimping tool.





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E) Insert the crimped cable into the connector body.



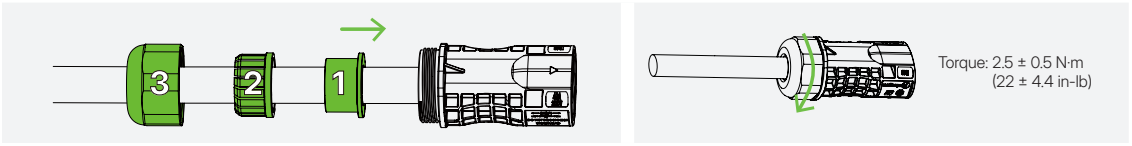
NOTICE

Wiring color codes may vary. Always adhere to national and site-specific regulations for wiring.

F) Insert the connector body into the cover.



G) Slide the gasket, compression ring, and nut over the cable assembly.
Tighten the nut to 2.5 ± 0.5 N·m (22 ± 4.4 in-lb).

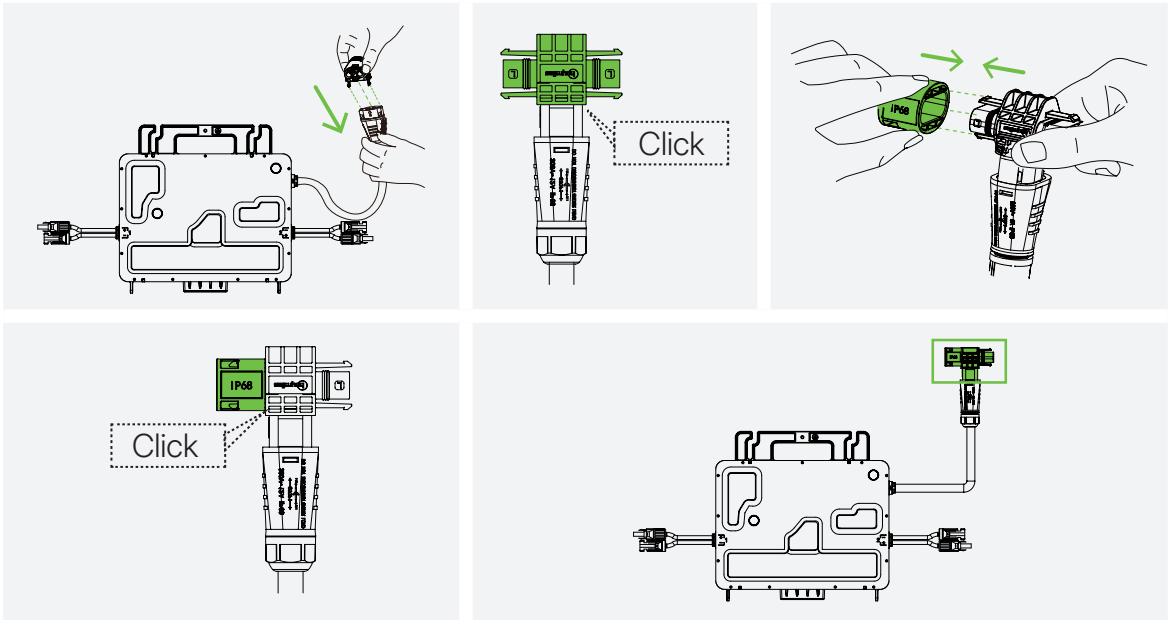


Step 4 Connect the AC Trunk Connectors

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

B) Cover the unused port on the Flex-S3 Trunk Connector (located at the beginning of the AC Trunk) with the Flex-S3 Sealing Cap. Listen for a click as they engage.

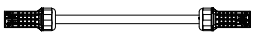




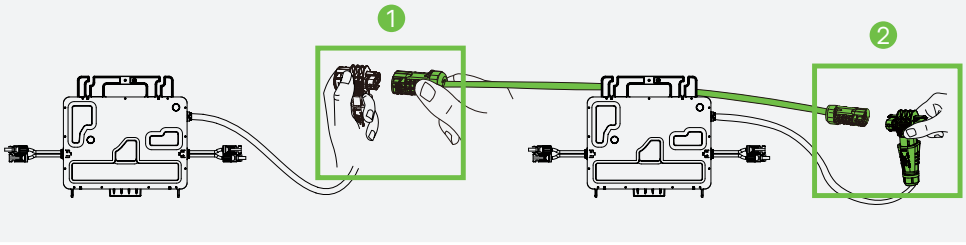
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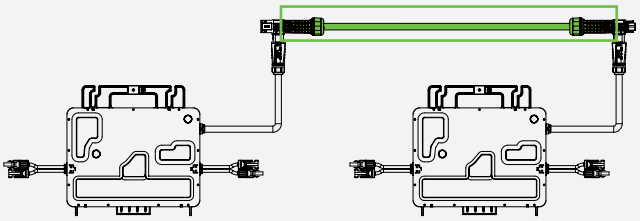
Step 5 Connect adjacent microinverters

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



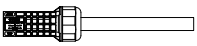
The quantity depends on the on-site situation.



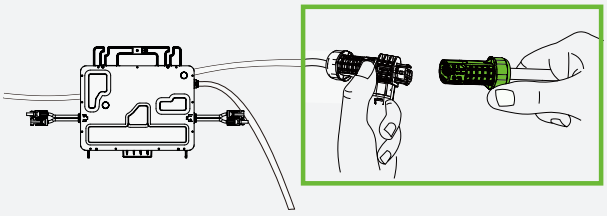


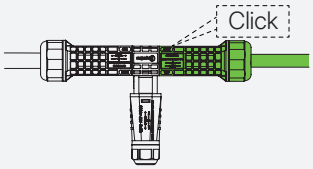
Step 6 Connect the AC End Cable

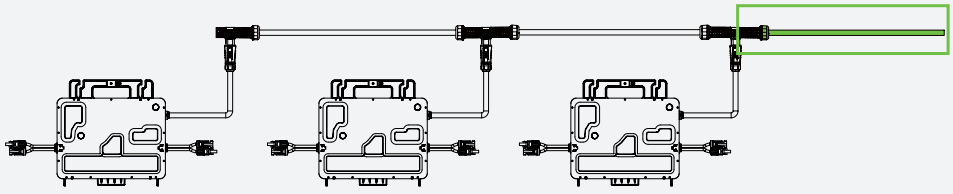
Connect the AC End Cable to the last Flex-S3 Trunk Connector. Listen for a click as they engage.



per AC output line



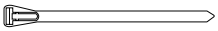




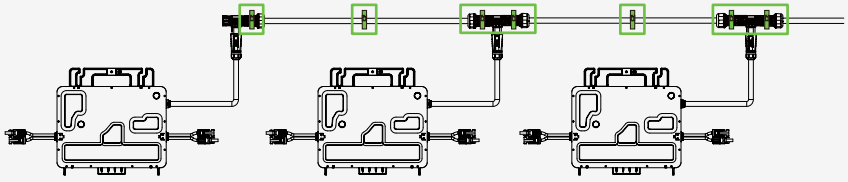
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Step 7 Manage the AC Trunk

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

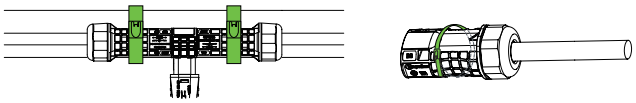


The quantity depends on the on-site situation.



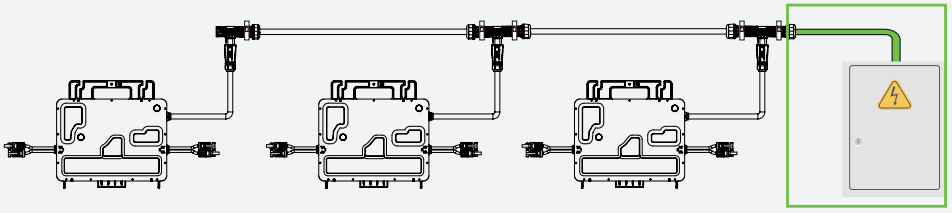
NOTE

The cable ties should be fastened around the central portion of all connectors.



Step 8 Connect to the distribution box

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



WARNING

Please adhere to local wiring codes for wiring safety.

Step 9 Complete the installation map

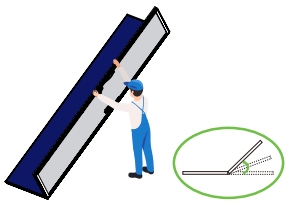
Peel off the SN label on each microinverter, and affix the labels to the respective locations on the installation map.

Step 10 Connect the PV modules

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

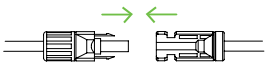
A) Move the PV module to the installation location and lift the right side.

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.



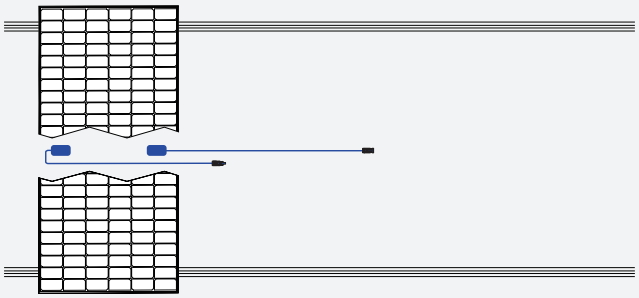
- Check the DC side connection according to the LED indicators.

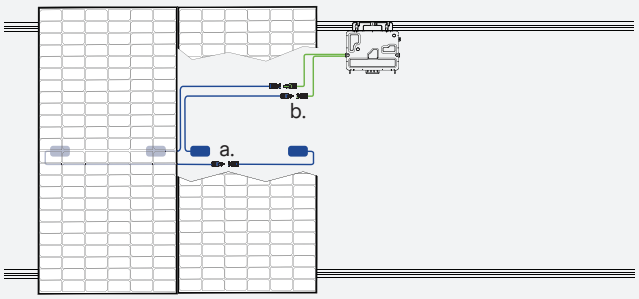
LED	Time Gap	Pattern	Indication
Flashing green five times, and then flashing red	0.5 s		One microinverter input port connected; AC side not powered on
Flashing red	2 s		All microinverter input ports connected; AC side not powered on

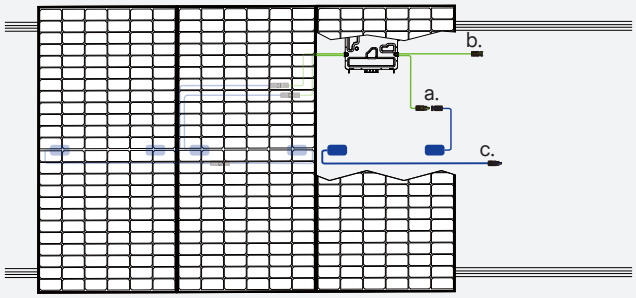
C) Secure the cables and connectors to the racking, lay down and fix the module.

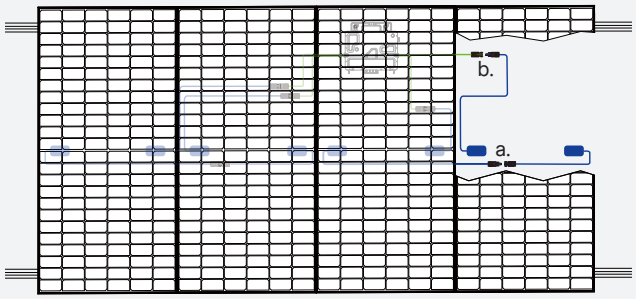
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Method 1



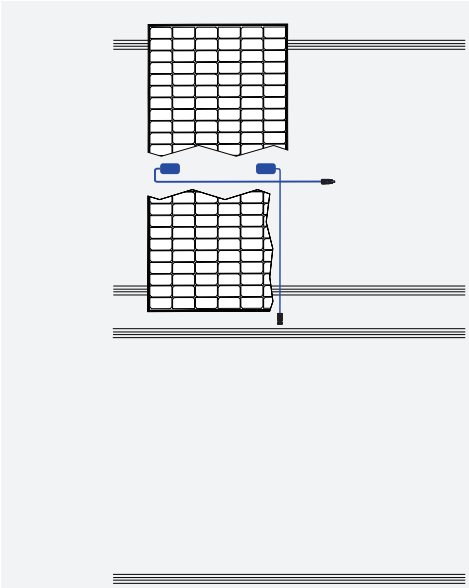


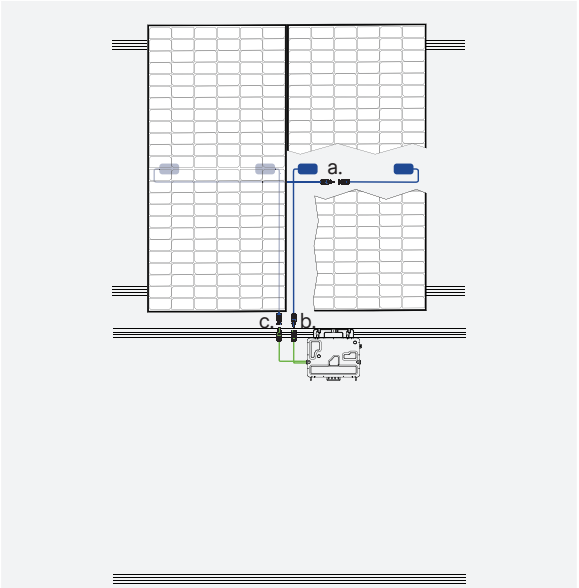


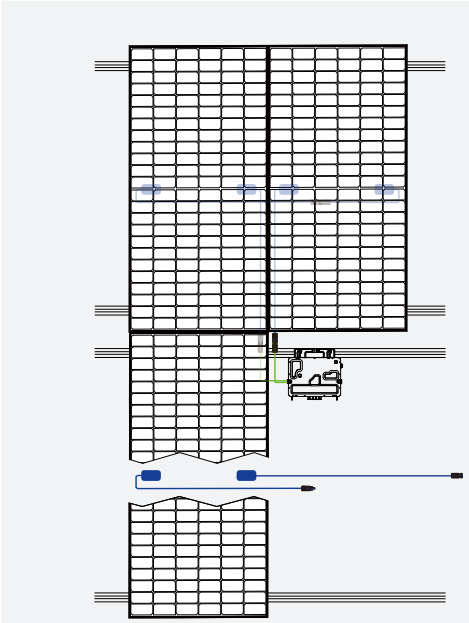


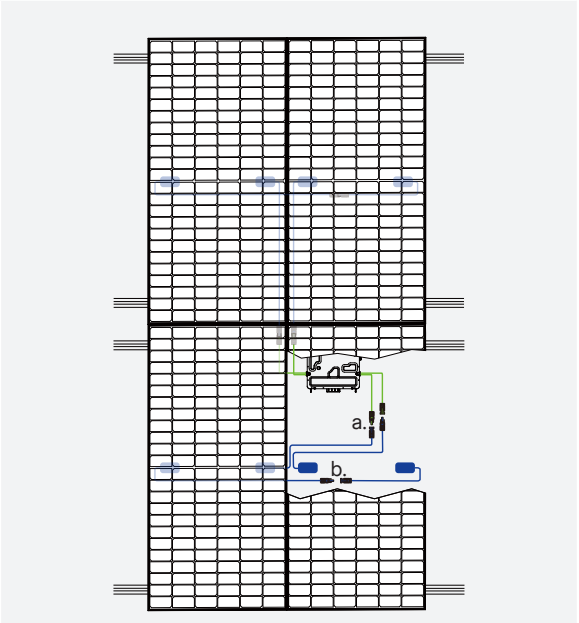
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Method 2



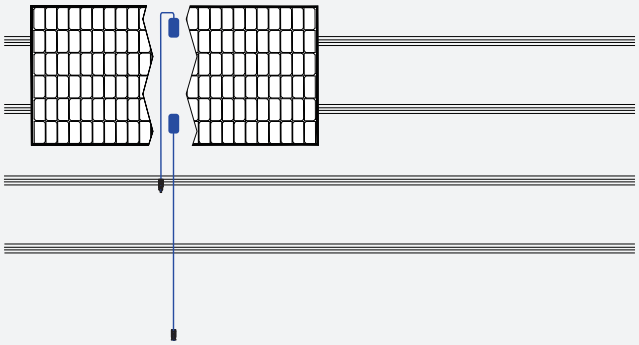


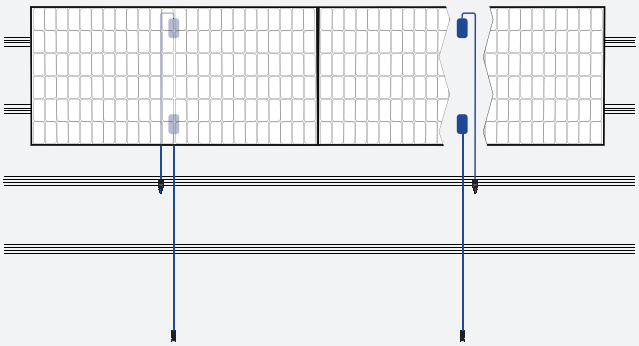


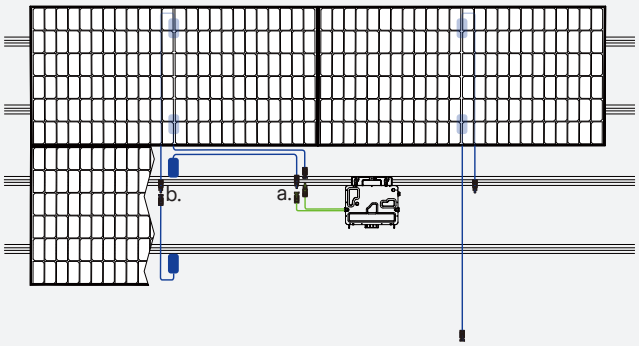


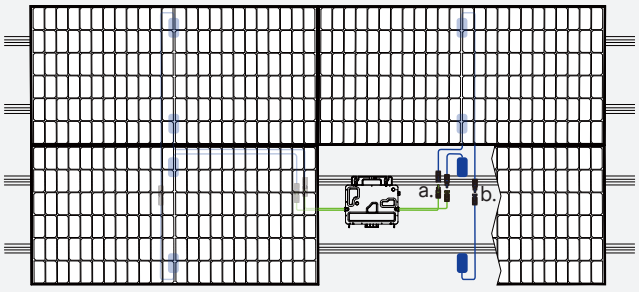
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Method 3









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Step 11 Start-up

A) Check the following before powering on the system:

Check Item	Acceptance Criteria
Microinverter	The microinverters are installed correctly and securely.
Cables routing	Cables are routed properly as required.
Cable ties	Cable ties are evenly distributed and no burr exists.
Cable connection	The AC output power cable and DC input power cable are connected correctly, securely, and reliably.

B) Power on the microinverter system.

C) Turn **ON** the AC disconnect switch or circuit breaker for each AC output line.

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

E) Allow five minutes for the system to start generating power.

F) Check the LED status. If the microinverter is operating as expected, the LED indicator will flash green for five times. If the LED indicator remains off or lights solid red, see 6.2 LED Indicator Status.

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5 Setting Up and Activating Monitoring

NOTE

- The screenshots provided here are for reference only. The actual screens may vary.
- Refer to S-Miles Installer's User Manual for more details.
  On S-Miles Installer App, you can tap **Me** > **Help Center** to find the user manual.

Step 1 Establish an internet connection

NOTICE

To ensure normal network connection, please change the router's security mode from "Enhanced Open" to "Open".

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

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

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

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



A) B) C) D)

E) Tap **Confirm**.

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



E) F)

G) Go back to the Q&M Screen. Repeat step B) to D), but enter the new AP password.

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Step 2 Create your power plant

A) Tap **Smart Setup**.

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

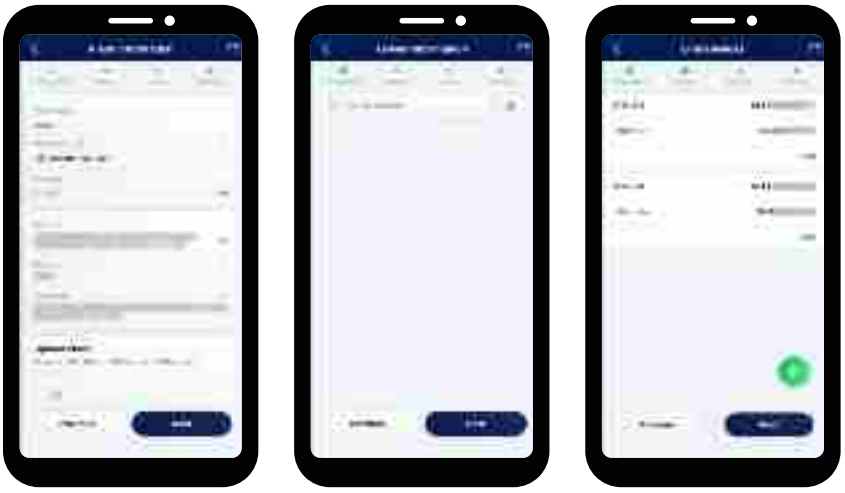
C) When connected, tap **Finish**. The system will search for all microinverters connected to this network.

D) Check all microinverters to be added, and tap **Proceed to Setup**.



A) B) C) D)

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



E)-1 E)-2 E)-3



E)-4 E)-5 E)-6

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Step 3 Set your power plant

A) Tap **Plants** > **Search**.

B) Enter the desired plant name for your search, and tap the plant name to move to the plant homepage.

C) On the plant homepage, tap **Setting**.



A) B) C)-1 C)-2

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



Plant Details Device List Plant Revenue

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6 Troubleshooting

6.1 Troubleshooting List

Code	Alarm range	Alarm status	Resolutions
121	CU	Over temperature protection	1. Ensure the microinverter installation site is properly ventilated and at a suitable ambient temperature. 2. Improve airflow and heat dissipation if necessary. 3. Please contact your dealer or Hoymiles technical support team if airflow and ambient temperature meet the requirements.
125	CU	Grid configuration parameter error	1. Ensure grid configuration parameters are correct and attempt the upgrade again. 2. Please contact your dealer or Hoymiles technical support team if the issue persists.
127	CU	Firmware error	1. Check for the correct firmware and re-attempt the upgrade. 2. Check and ensure the Hoymiles monitoring system, and microinverter are all connected and communicating with each other. Retry if needed. 3. Please contact your dealer or Hoymiles technical support team if the issue persists.
130	CU	Offline	1. Please ensure the microinverter is functioning correctly. 2. Check the communication status between the microinverter and Hoymiles monitoring system, and make the necessary improvements if the communication Appears poor. 3. Please contact your dealer or Hoymiles technical support team if the alarm recurs frequently and does not reset.
141	Grid	Grid overvoltage	1. Sudden, accidental activation of the alarm might be the result of a temporary irregularity in grid voltage. The microinverter will recover automatically once the grid voltage stabilizes. 2. Check whether the grid voltage is in the acceptable range in the event of recurring alarm activation. 3. Contact your local power operator or adjust the grid overvoltage protection limit through the S-Miles Cloud Platform with consent from the local power operator if the grid voltage is not within acceptable limits.
142	Grid	10 min value grid overvoltage	
143	Grid	Grid undervoltage	
144	Grid	Grid over-frequency	
145	Grid	Grid under-frequency	
146	Grid	Rapid grid frequency change rate	1. Sudden, accidental activation of the alarm might be the result of a temporary irregularity in grid voltage. The microinverter will recover automatically once the grid voltage stabilizes. 2. Check whether grid voltage is in the acceptable range in the event of recurring alarm activation. 3. Contact your local power operator or adjust the grid overvoltage protection limit through the S-Miles Cloud Platform with consent from the local power operator if the grid voltage is not within acceptable limits.
147	Grid	Power grid outage	Check whether a power grid outage occurred.
148	Grid	Grid disconnection	Check the condition of the AC switch or AC wiring for issues.

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149	Grid	Island detected	1. Sudden, accidental activation of the alarm might be the result of a temporary irregularity in grid voltage. The microinverter will recover automatically once the grid voltage stabilizes. 2. If all the microinverters in your station frequently trigger alarms, reach out to the local power operator to investigate potential grid islands. 3. If the alarms do not stop, please contact your dealer or Hoymiles technical support team.
209	PV-1	PV-1 No input	1. Confirm that the port is connected to the PV module. 2. If the PV module is indeed connected, examine the DC cable connection between this port and the PV module.
210	PV-2	PV-2 No input	
215	PV-1	PV-1 Input Overvoltage	1. Ensure the PV module's open-circuit voltage is less than or equal to the maximum input voltage. 2. If it is within the normal range, contact your dealer or Hoymiles technical support team.
216	PV-1	PV-2 Input Undervoltage	1. Ensure the PV module's open-circuit voltage is not lower than the minimum input voltage. 2. If it is within the normal range, contact your dealer or Hoymiles technical support team.
217	PV-1	PV-1 Input Overvoltage	1. Ensure the PV module's open-circuit voltage is less than or equal to the maximum input voltage. 2. If it is within the normal range, contact your dealer or Hoymiles technical support team.
218	PV-1	PV-2 Input Undervoltage	1. Ensure the PV module's open-circuit voltage is not lower than the minimum input voltage. 2. If it is within the normal range, contact your dealer or Hoymiles technical support team.
324	CU	Arcing Lock-up	1. Check whether the wiring between the PV module and the microinverter is correct. 2. If the wiring is correct, issue the [Troubleshoot and Reconnect] command. 3. Please contact your dealer or Hoymiles technical support team if the issue persists.

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6.2 LED Indicator Status

The LED indicator on the microinverter indicates various statuses. The following table details the possible LED statuses and what they mean.

Start-up

LED	Time Gap	Pattern	Indication
Flashing green	0.3 s, 5 times		Start-up success
Flashing red	0.3 s, 5 times		Start-up failure
Alternating red and green flashing	1 s		Firmware failure

Operation

LED	Time Gap	Pattern	Indication
Flashing green	1 s		Normal power production
Flashing red	0.5 s		Input side failure
Flashing red	2 s		AC grid failure
Solid red	-		Hardware failure; Control unit failure
Alternating red, green, and blue flashing	0.5 s		Firmware upgrade

Network Status

LED	Time Gap	Pattern	Indication
Alternating blue and green flashing	0.5 s		Network not configured
Solid blue	-		Bluetooth pairing
Flashing blue	0.5 s		Bluetooth paired, waiting for network configuration
Alternating red and blue flashing	0.5 s		Network resetting

NOTE

- The microinverter is powered by the DC side. If the LED indicator is not illuminated, check the DC side connection. If the connection and input voltage are normal, contact your dealer or Hoymiles technical support team for further assistance. (For details, see Contact Us.)
- Ensure the grid connection is normal.

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6.3 On-Site Inspection and Maintenance Instructions (Only for Qualified Technicians)

⚠ DANGER

- Always wear personal protective equipment while performing inspection and maintenance.
- Shut down the microinverter and disconnect it from all power sources before beginning maintenance.
- The microinverter still contains lethal voltages after disconnecting from the power sources. Wait at least five minutes before proceeding with maintenance.

⚠ WARNING

Maintenance operations are strictly limited to authorized personnel, who are then responsible for reporting any discrepancies.

On-Site Inspection

Most microinverter faults can be diagnosed and resolved using the following troubleshooting steps.

Check Item	Method
Ambient Temperature	Check the temperature of the microinverter for overheating (see 8 Technical Data).
Electrical Parameters	Verify the PV modules' DC voltage, the grid voltage, and the grid frequency are within the allowable range (see 8 Technical Data).
DC Connections	Check and make sure the DC connection between the PV module and the microinverter is tight and secure. **Check steps:** A) Disconnect the AC power first to de-energize the microinverter. B) Disconnect the DC connections. C) Re-connect the PV module and microinverter. D) If the DC connection is normal, the LED indicator will flash red.
AC Connections	Check and make sure the AC connection between the grid and the microinverter is tight and secure. If DC connections and AC connections are functioning properly, the LED indicator will flash green. **Check steps:** A) Disconnect the AC power first to de-energize the microinverter. B) Disconnect the DC connections. C) Re-connect the PV module and microinverter. D) If the DC connection is normal, the LED indicator will flash red. E) Reconnect the AC power. F) If DC and AC connections are normal, the LED indicator will flash green five times. G) If the problem persists, contact the Hoymiles Technical Support Team at service@hoymiles.com.

Maintenance

Regular inverter maintenance is essential for ensuring longevity and optimal performance assets. The checklist provides specific tasks for the maintenance process.

Check Item	Acceptance Criteria
Ventilation	• Verify the installation location has sufficient free space for ventilation and heat dissipation. • Keep all components free and clear of debris, especially around the heat sink. Clean the microinverter regularly using a soft brush or vacuum cleaner.
Electrical Connection	• Check the wiring connections for any loose or damaged wires. If needed, tighten any loose connections.
Microinverter Status	• Check the microinverter for any sign of corrosion or physical damage. Broken parts should be addressed immediately. • Regularly updating the firmware and software of the microinverters.
Environment	• Check and ensure the environmental conditions remain within the specified operating range (see 8 Technical Data).

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7 Decommission

This section introduces how to safely remove, replace, store, and recycle microinverters at the end of their lifespan.

⚠ DANGER

- Never disconnect a DC connector when PV modules are in the sun. Cover the PV modules before disconnecting.
- Potentially dangerous voltage may still be present inside disconnected microinverters.

7.1 Removing the Microinverter

Step 1: Switch **OFF** all AC circuit breakers.

Step 2: Use an electric meter or current clamp to ensure there is no voltage and current.

Step 3: Use the Flex-S3 Disconnect Tool to disconnect all AC connections and wait about five minutes.

Step 4: Use the Flex-S3 Disconnect Tool to disconnect all DC cable connections.

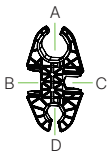
ⓘ NOTE

To use the Flex-S3 Disconnect Tool,

A) Align the Flex-S3 Disconnect Tool's notches with the released tabs on the connectors.

B) Squeeze the tool firmly to apply pressure to the release tabs.

C) Gently pull the connectors apart to disconnect them.

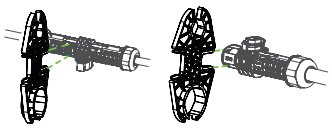


[A]: Tightens or loosens the Flex-S3 Connector nut when making an AC End Cable.

[B]: Disconnects the microinverter AC output connector from the Flex-S3 Trunk connector or Flex-S3 Field Connector.

[C]: Disconnects the Flex-S3 Sealing Cap from the Flex-S3 Trunk Connector or the Flex-S3 Trunk Connector from the Flex-S3 Connection Cable.

[D]: Tightens or loosens Flex-S3 Field Connector nuts.



Step 5: Remove the PV modules from their mounts and cover them.

Step 6: Remove protective earthing connections (if needed).

Step 7: Unscrew the fixing screws on the top of the microinverter and remove the microinverter from the mounting racking.

7.2 Replacing the Microinverter

Step 1: Record the new microinverter's SN.

Step 2: Power **OFF** the whole system and wait about five minutes.

Step 3: Install the new microinverter. (For details, see 4.2 Installation Steps.)

Step 4: Replace the microinverter on the monitoring platform.

A) Log in to S-Miles Cloud at https://global.hoymiles.com.

B) Go to **O&M** > **Microinverter** > **Search**, locate the device you wish to replace, and click **Device Maintenance** 🔧.

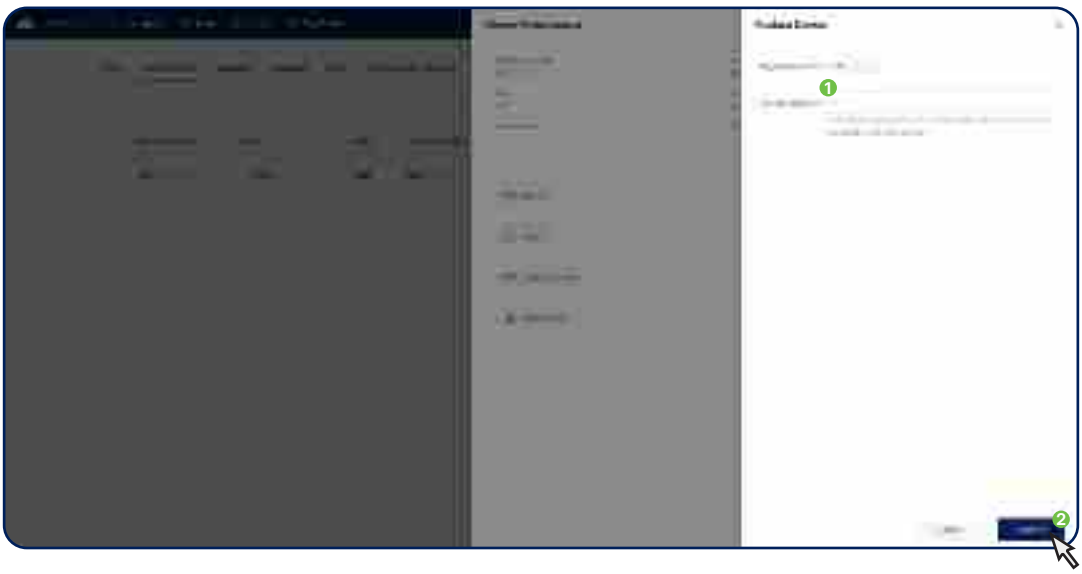


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C) Click **Replace Device**.



D) Enter the new microinverter's SN, and click **Confirm** to replace the microinverter.



7.3 Storing and Transporting the Microinverter

The following requirements should be met if the microinverter is not put into use directly.

- Pack the microinverter in the original packaging. If the original packaging is unavailable, use the packaging that is suitable for the weight and dimensions of the microinverter.
- Maintain a storage temperature of -40 °C to 85 °C (-40 °F to 185 °F), and a relative humidity between 0% to 95%.
- Store the equipment indoors in a well-ventilated area.
- Protect the microinverter from physical shocks or vibrations during transportation and storage.
- Prevent sudden impacts or movements during transportation.
- Follow general transportation regulations for the mode of transport and ensure compliance with all local regulations.
- Conduct a thorough inspection before restarting the equipment after prolonged non-operation.
- Do not exceed the stacking limit marked on the outer side of the packaging.

7.4 Disposing of the Microinverter

Step 1: Pack the microinverter in the original packaging. If the original packaging is unavailable, use the packaging that is suitable for the weight and dimensions of the microinverter.

Step 2: Properly seal the package using adhesive tape.

Step 3: Discard the packaging in accordance with local regulations.

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8 Technical Data

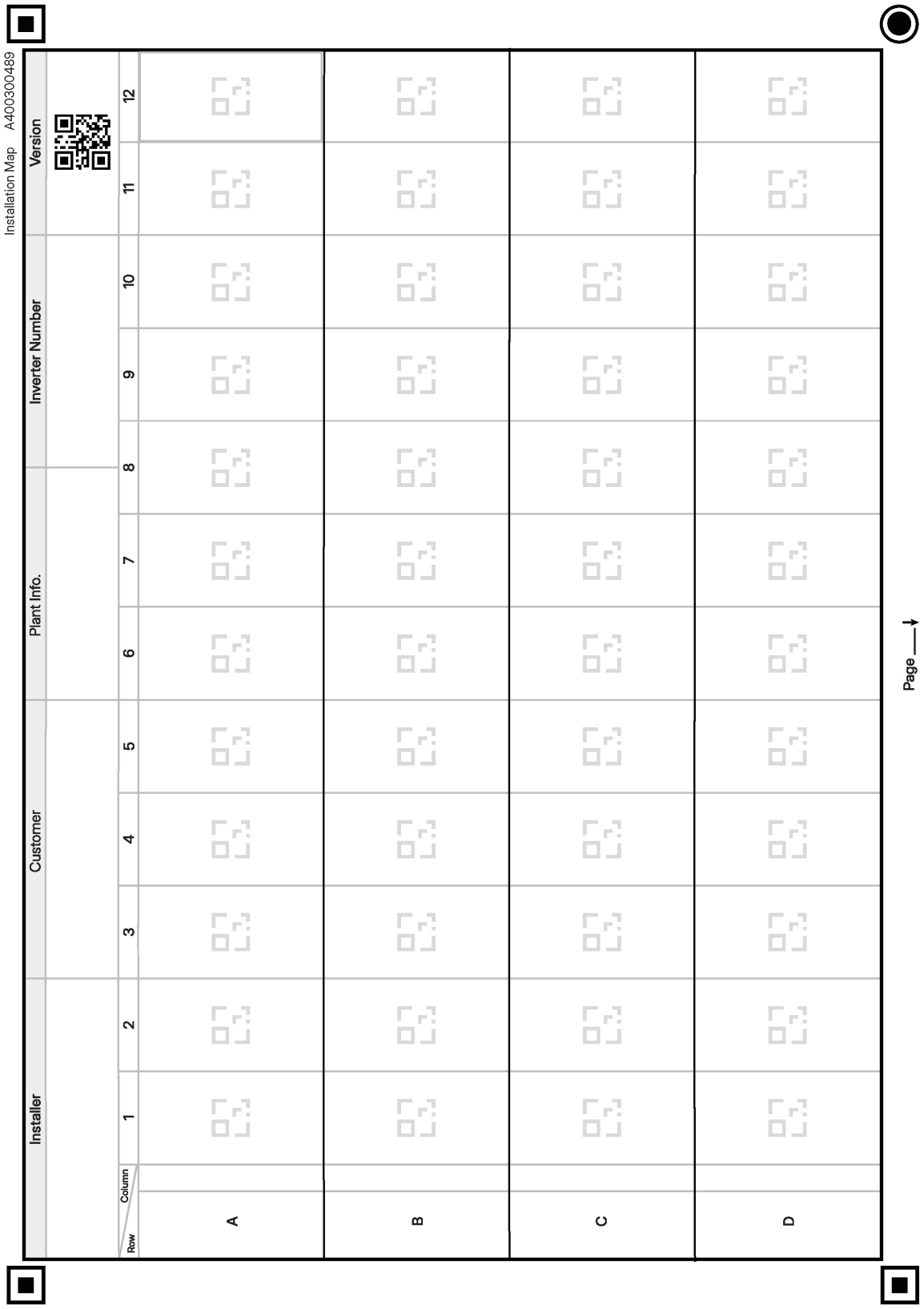
⚠ WARNING

Before installing Hoymiles Microinverter System, make sure that the maximum open circuit voltage of the PV module is within the microinverter's operating voltage range.

Model	MIS-2250-W Pro		MIS-2500-W Pro		MIS-2750-W Pro	
Input Data (DC)						
Commonly used module power (W)	450 to 750+		500 to 840+		550 to 928+	
Maximum input voltage (V)	120					
Min./Max. start-up voltage (V)	28/120					
MPPT voltage range (V)	22 to 120					
Maximum input current (A)	20					
Maximum input short-circuit current (A)	32					
Number of MPPTs	2					
Number of Inputs per MPPT	1					
Output Data (AC)						
Rated output power (VA)	2250		2500		2750	
Max. output current (A)	10.23	9.78	11.36	10.87	12.50	11.97
Nominal output voltage/range (V)	220 / 180 to 275	230 / 180 to 275	220 / 180 to 275	230 / 180 to 275	220 / 180 to 275	230 / 180 to 275
Nominal frequency/range (Hz)	50 / 45 to 55 or 60 / 55 to 65					
Adjustable power factor (@rated power)	> 0.99 default 0.8 leading ... 0.8 lagging					
Total harmonic distortion (@rated power)	< 3%					
Efficiency						
Peak efficiency	98.0%					
CEC efficiency	97.5%					
Nominal MPPT efficiency	99.8%					
Night power consumption (mW)	< 50					
Mechanical Data						
Ambient temperature range (°C)	-40 to +65 (-40 to +149 °F)					
Storage temperature range (°C)	-40 to +85 (-40 to 185 °F)					
Dimensions (W×H×D [mm])	290.7 × 297 × 42 (11.44 × 11.69 × 1.65 inches)					
Weight (kg)	4.4 (9.7 lbs)					
Enclosure rating	Outdoor - IP67					
Cooling	Natural convection - No fans					
Feature						
Communication	Wi-Fi and Bluetooth					
Topology	Galvanically Isolated HF Transformer					
Monitoring	S-Miles Cloud					
Compliance	PORTARIA INMETRO Nº 140, DE 21 DE MARÇO DE 2022, IEC 63027, NOM-001, UL1741, UL1699B					

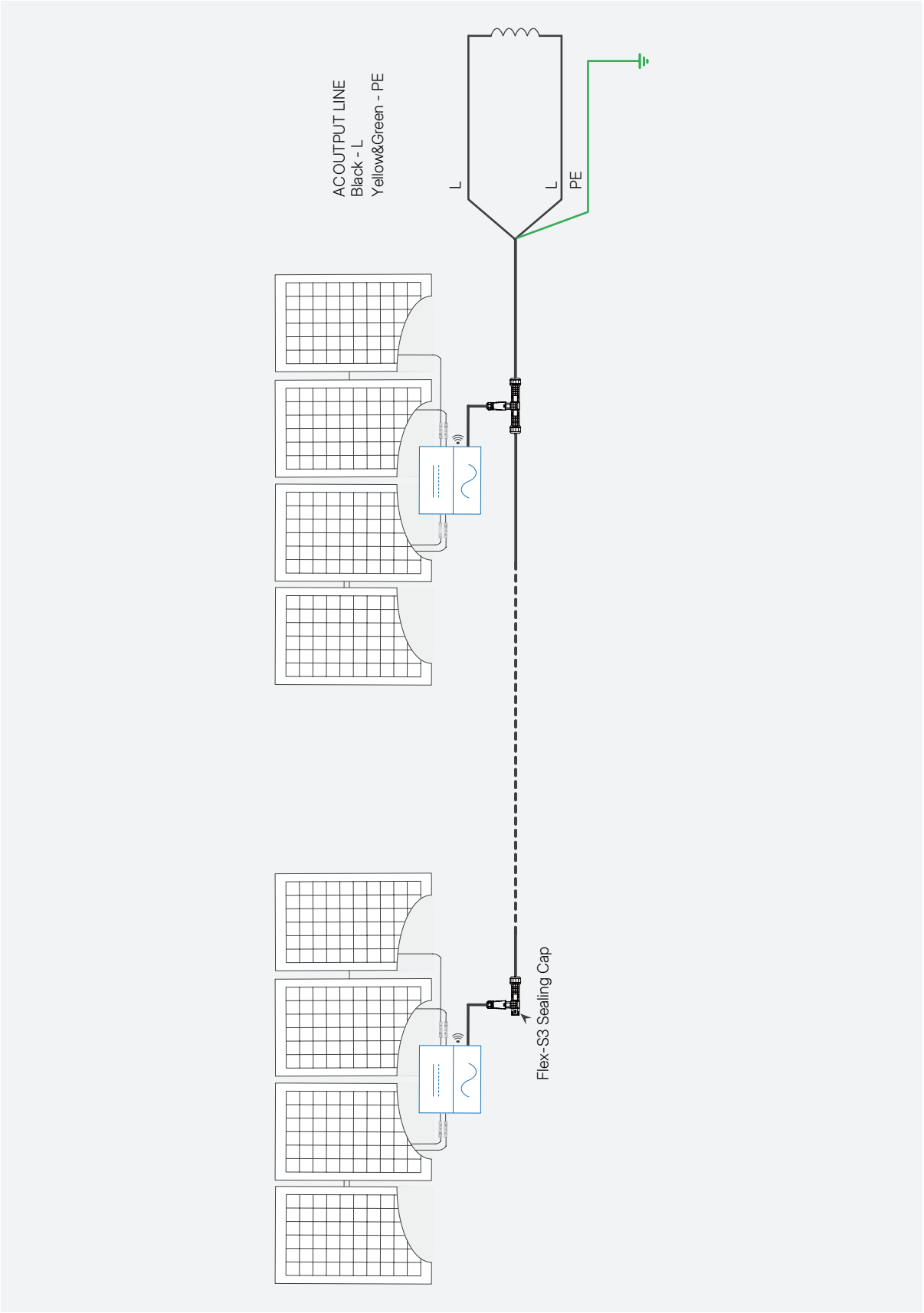
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9 Appendix 1: Installation Map



10 Appendix 2: Wiring Diagram

127/220 VAC THREE PHASE



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