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Produktinformationen zu erhalten.

Balcony Solar Power System **SAFETY INSTRUCTIONS AND DATASHEETS**

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General Introduction

- This quick guide applies to the quick installation instructions for the balcony PV solutions supplied by Apex solar.
- Users and installers must read carefully and follow strictly. Failure to follow these safety guidelines can result in casualties or property damage.
- The term "Module" or "PV Module" in this Manual refers to one or more flexible series solar modules. Please keep this Manual for future reference.
- To install APEX Balcony Solar Power System, read and follow all warnings and instructions in this guide and in **APEX-PV-MODULES-INSTALLATION-MANUAL** and also the User Manual of APS for corresponding model.

Facility inventory


Items	Quantity	Remark
PV modules	2	400w per piece
Micro Inverter	1	connect to the PV modules and provide the AC output
Balcony Bracke	2	
Power Cord(3G1.5mm²,5m)	1	
Tool Set	1	

Safety Instructions

- The installer must abide by all the safety instructions and precautions mentioned in this manual, and at the same time observe the laws or regulations of authorized agencies and other local requirements. Failure to comply with the relevant safety and installation specifications described in this manual, or failure to comply with the laws or regulations of authorized agencies and other local will result in the invalidation of the limited warranty of the purchased solar PV modules.
- APEX solar PV modules have passed the tests of some of the world's leading certification institutes. Rest assured that it is suitable for use if it meets the requirements and terms of this manual.
- Before installing the Balcony Solar Power System, please contact the relevant local authority to determine the installation permit and inspection requirements that meet the local requirements.
- As long as there is sunlight, PV modules can generate electricity normally. Shadow has a significant impact on module power generation. Modules should not be covered or placed under shade (buildings, chimneys, and trees) nor should they be partially shaded (overhead lines, dirt, or snow).
- Ensure the solar PV modules are stored in their original packaging before installation. The modules should be protected from damage during transportation and storage. Do not open it until the modules arrive at the installation site. Unpack according to the instructions, and be careful when transporting, opening, and storing. The packaged modules cannot be dropped directly.
- Ensure that the transportation and installation methods are correct. Otherwise, the modules may be damaged.
- Solar PV modules should not be stacked beyond the maximum number of layers listed on the packaging box. Before unpacking, please place the packing box in a ventilated, dry, and weatherproof place.
- Do not stand, climb, walk, or jump on an unopened packaging or module.
- Objects that are heavy or sharp should not be placed on the front or back of the module.
- It is recommended that you use disassembling tools and support to prevent the modules from tilting or falling off when disassembling the carton. Modules should not be placed in unstable or unfixed environments.
- Whenever wires or junction boxes are pulled, modules cannot be carried.

- If you need to store modules temporarily, they should be stored in a dry and ventilated environment.
- Before installation, please make sure that all modules are in clean and dry conditions when they are in contact with electrical appliances.
- Do not install any modules when it is raining, snowing, or windy.
- Do not install or use modules under artificial condensing light sources.
- For modules to be installed on columns, the column and module support structures must be wind and snow-resistant. Please ensure that the wind and snow loads on the modules do not exceed the maximum load allowed by the design.
- Do not use solar PV modules with broken glass or damaged back sheets during installation. Repairing such modules is not possible. Touching the aluminum frame or surface will result in an electric shock. You should not attempt to disassemble the module or damage the nameplate or any other part of the module.
- Do not step on, place heavy objects, or scratch or damage the surface of the PV modules during installation.
- The surface of the module should not be painted or glued.
- When solar PV modules are being installed, opaque materials can be used to prevent electric shock or burning.
- Refrain from wearing metal rings, watches, earrings, nose rings, or other metal objects during the installation or maintenance of the photovoltaic system. This will avoid damage to the modules and electric shock.
- In case of circuit overload, do not disconnect any electrical connections or unplug any connectors.
- Ensure that cables and connectors are not scratched or cut to prevent the insulation performance of the modules from degrading.
- Make sure you use well-insulated tools in accordance with relevant electrical installation standards. Keep your children away from the area of the installation site during the transportation and installation of modules.
- You must comply with local safety regulations (e.g., safety rules, and power plant operation regulations), including the installation of wires and cables, connectors, inverters, charge controllers, storage batteries, and rechargeable batteries.
- The current and voltage generated by PV modules under certain conditions may be higher than those under standard test conditions (STC). The rated voltage of the module can be determined by multiplying the I_{sc} and V_{oc} by a factor of 1.25, strengthening the current carrying capacity of the wire and the rated value of the overcurrent protection device, as well as the capability of controlling the output end of the connected photovoltaic module.
- APEX module design conforms to the international IEC61215 and IEC61730 standards and is rated class A for its application level. It has passed IEC61730-1 and IEC61730-2 and is Class II safety-rated, making them suitable for systems requiring more than 50V or 240W.
- For installation methods and guidance on fire safety, consult the local competent authorities.
- To evaluate the fire rating of the system, the roof and mounting brackets must be covered with fireproof material and ventilated while still complying with local electrical safety regulations.
- Electrical safety regulations require the use of appropriate module accessories, such as fuses, circuit breakers, and earthed connectors.
- The installation manual for the solar PV module outlines safety precautions. Ensure that the balcony structure is stable and secure before installing the modules.
- Do not operate the operating panel of any equipment near flammable gas.

Installation

	Read the instructions before installation. Damage caused by failure to follow instructions is not covered by warranty.
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- The solar PV system is grid-tied. Check with your local authorities to see if installation is allowed, and the process may require approval before or after installation.
- When installing a solar panel on a balcony, make sure it can extend beyond the balcony railing.
- Install or remove the PV system with caution. There must be no people or property beneath the work area as it is a danger zone.
- During installation or removal, we recommend that at least three people work together. Ensure the solar panel is firmly secured before tightening the hose clamps.
- The Mounting Auxiliary Rope must be connected to the balcony railing before the solar panel can be mounted.

- It is recommended to carry solar panels with at least two people. During installation, bumping or falling will damage the surface of the solar panel.
- All installations should follow local electrical codes. Further protection of AC wiring from inverters should be provided and may be required by local and national wiring regulations. This protection may include Residual Current Devices, Earth Fault Monitors, and Circuit Breakers.
- There should be no changes made inside the microinverter other than the cable connectors.

Maintenance

- Never disconnect the solar panel from the microinverter without turning off the AC power. Before removing the Schuko plug, the PV and AC connectors should not be disconnected under load.
- The brackets are only designed to withstand winds of level 8 (Gale, 39 - 46mph, which may break twigs and small branches or make walking challenging). Additional protective measures may be necessary during extremely windy weather, such as temporarily removing solar panels.
- Do not damage the solar panel with sharp objects.
- To receive maximum sunlight, solar panels should never be covered when in use.
- Never disconnect the DC wire connectors under load.
- Do not touch the heat dissipation surface of the microinverter. Please be aware of high temperatures and keep them away from children.
- Do not attempt to repair the microinverter. It does not contain any user-serviceable parts. If troubleshooting methods fail, please contact an authorized service agent.

Specifications

Microinverter (EZ1-M)

	Model	EZ1-M
Input(DC)	Recommended PV Module Power (STC) Range	300Wp-730Wp+
	Peak Power Tracking Voltage	28V-45V
	Operating Voltage Range	16V-60V
	Maximum Input Voltage	60V
	Maximum Input Current	20A x 2
	Isc PV	25A x 2
Output Data (AC)	Maximum Continuous Output Power	600VA ⁽³⁾ /799VA
	Nominal Output Voltage/Range ⁽¹⁾	230V/184V-253V
	Nominal Output Current	2.6A ⁽³⁾ /3.5A
	Nominal Output Frequency/ Range ⁽¹⁾	50Hz/48Hz-51Hz
	Default Power Factor	0.99
Efficiency	Peak Efficiency	96.7%
	Nominal MPPT Efficiency	99.5%
	Night Power Consumption	20mW

Mechanical Data	Operating Ambient Temperature Range ⁽²⁾	- 40 °C to + 65 °C
	Storage Temperature Range	- 40 °C to + 85 °C
	Dimensions (W x H x D)	263mm x 218mm x 36.5mm
	Weight	2.8kg
	DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
	Cooling	Natural Convection - No Fans
Power Cord	Enclosure Environmental Rating	IP67
	Wire Size	1.5mm ²
	Cable Length	5M as default
Features	Plug Type	Schuko
	Communication	Built-in Wi-Fi and Bluetooth
	Maximum Units Can Be Connected ⁽⁴⁾	2
	Isolation Design	High Frequency Transformers, Galvanically Isolated
Compliances	Energy Management	AP EasyPower APP
	Warranty	12 Years Standard
	Safety, EMC & Grid Compliances	EN 62109-1/-2; EN 61000-1/-2/-3/-4; EN 50549-1; DIN V VDE V 0126-1-1; VFR; UTE C15-712-1; CEI 0-21; UNE 217002; NTS; RD647; VDE-AR-N 4105

(1) Nominal voltage/frequency range can be extended beyond nominal if required by the utility.




(2) The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation environment.

(3) The factory setting could be 600VA as default and raise to 800VA after installation according to the regulation adjustment. Please refer to the AP EasyPower APP step for the setting.

(4) For some countries it is limited to 1 because of the regulations.

Solaranlage (APEX-108H-400-405M10)

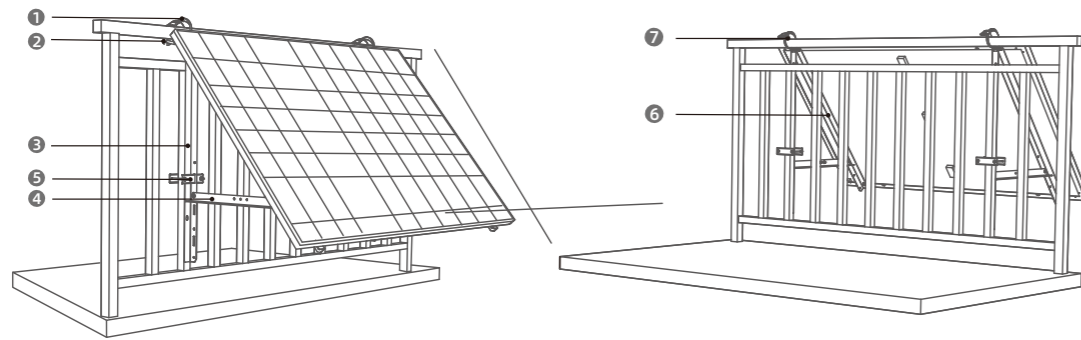
	Modell	APEX-108H-400M10
ELECTRICAL PARAMETERS AT STC	Rated Maximum Power(Pmax) [W]	400W
	Maximum Power Voltage(Vmp) [V]	30.75
	Maximum Power Current(Imp) [A]	13.01
	Open Circuit Voltage(Voc) [V]	36.75
	Short Circuit Current(Isc) [A]	13.76
	Module Efficiency [%]	20.46
	MECHANICAL SPECIFICATION	Cell Type
Cell Dimensions		182x182mm
Cell Arrangement		108(6x18)
Weight		21.5kg(±3%)
Module Dimensions		1724x1134x30mm
Junction Box		Protection class IP68

OPERATING CONDITIONS	Maximum System Voltage (V)	1000/1500VDC (IEC)
	Pmax Temperature Coefficient	-0.34%/°C
	Voc Temperature Coefficient	-0.28%/°C
	ISC Temperature Coefficient	+0.05%/°C
	Nominal Operating Cell Temperature	45±2°C
	Operating Temperature	-40°C~+85°C
	Maximum Series Fuse	25A
PACKING CONFIGURATION	Quantity/Pallet	37pcs/pallet
	Quantity/Container	962pcs/40HQ
CERTIFICATION AND CONFORMITY		  

Installation

Step 1

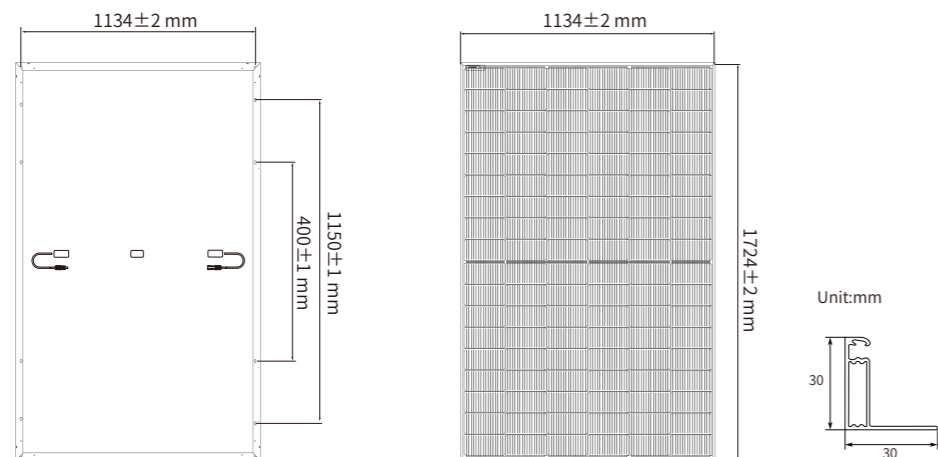
• Solar Panel Mounting Bracket Checklist



1. 304 Stainless Steel Hose Clamp
2. U-Shaped Rack
3. Vertical Support Beam
4. Lower Support Beam

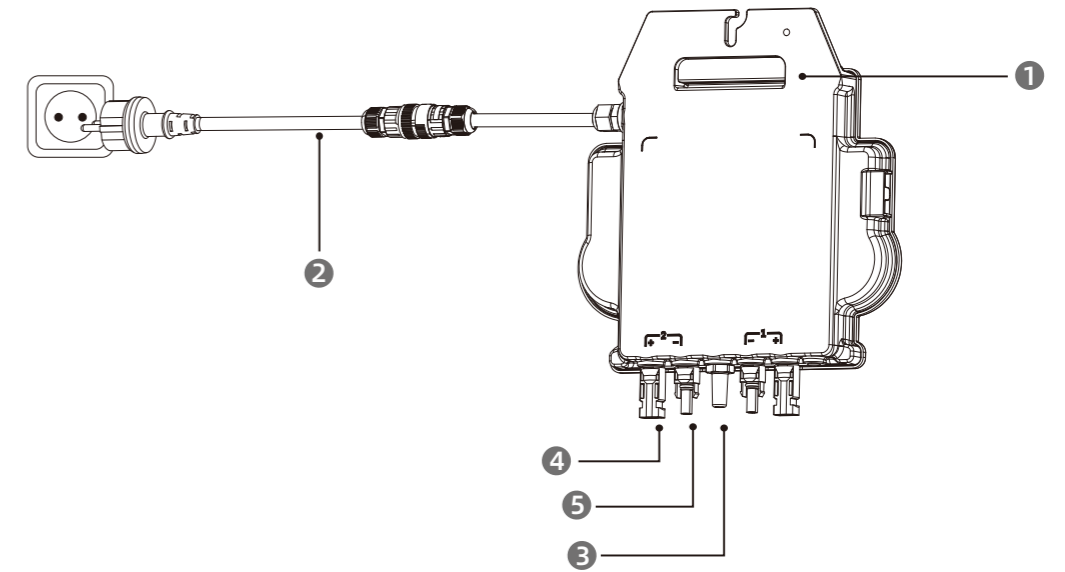
5. Fastening Clamp
6. Solar Panel Support Beam
7. Silicone Buffer Pad

APEX-108H-400M10



Step 2

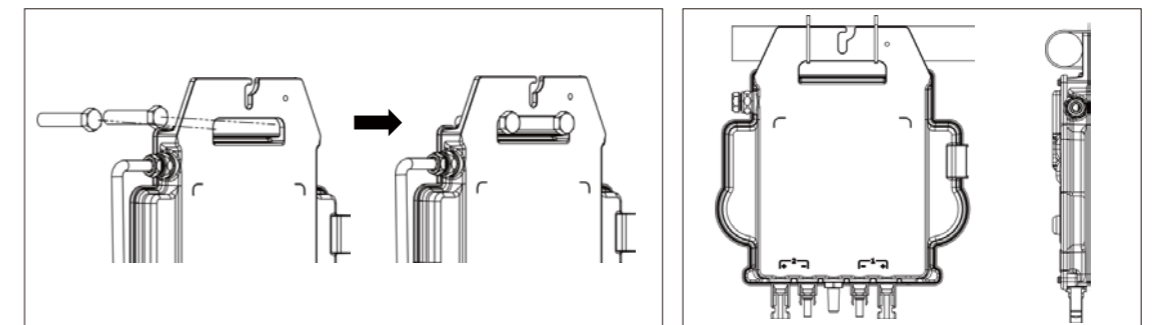
• Microinverter



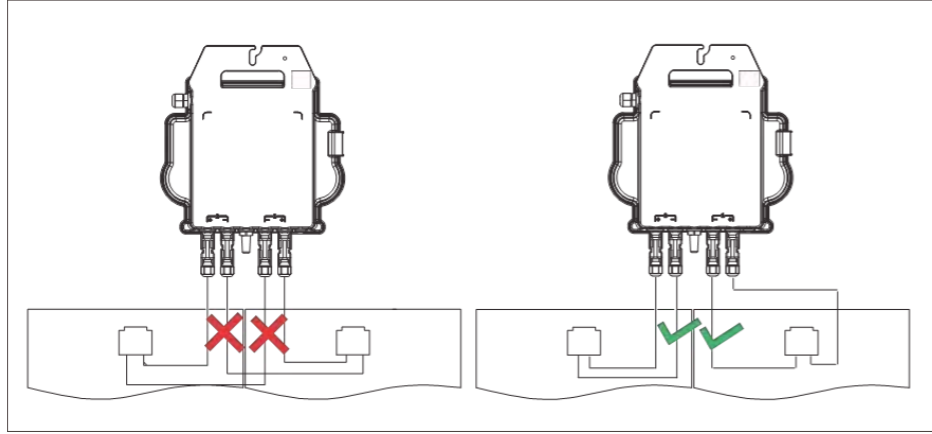
Note: The product's appearance varies by supplier and batch.

- | | | |
|-----------------|----------------------|-----------------|
| 1. Mounting | 3. Wi-Fi Module | 5. QC4 Male Pin |
| 2. AC Connector | 4. QC4 Female Socket | |

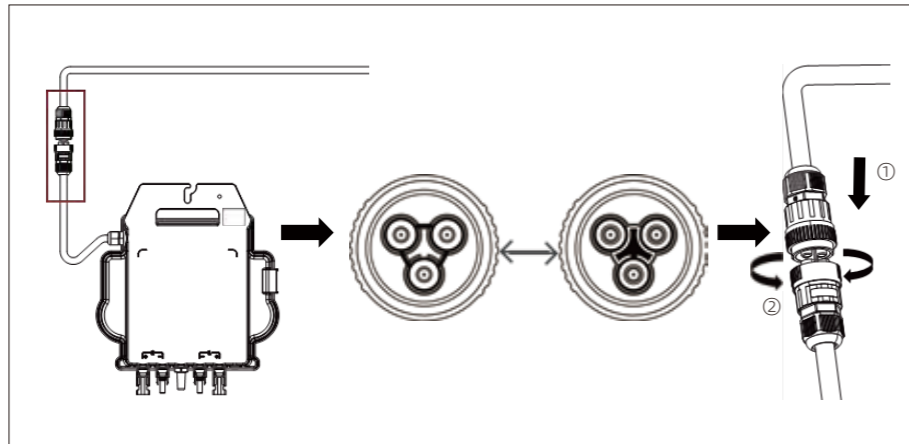
- The general type reverse switch is installed in the correct position, and the installation method is suitable for selection. Based on the actual situation, the security micro-type reverse change device is secure. Caution: The micro-type reverse switch is installed in the correct position, avoid direct exposure to rainwater, ultraviolet light or other harmful weather events.



- When plugging in the DC cables, the microinverter should immediately **blink green 10 times**. This will happen as soon as the DC cables are plugged in and will show that the microinverter is functioning correctly. This entire check function will start and end within 10 seconds of plugging in the unit, so pay careful attention to these lights when connecting the DC cables.



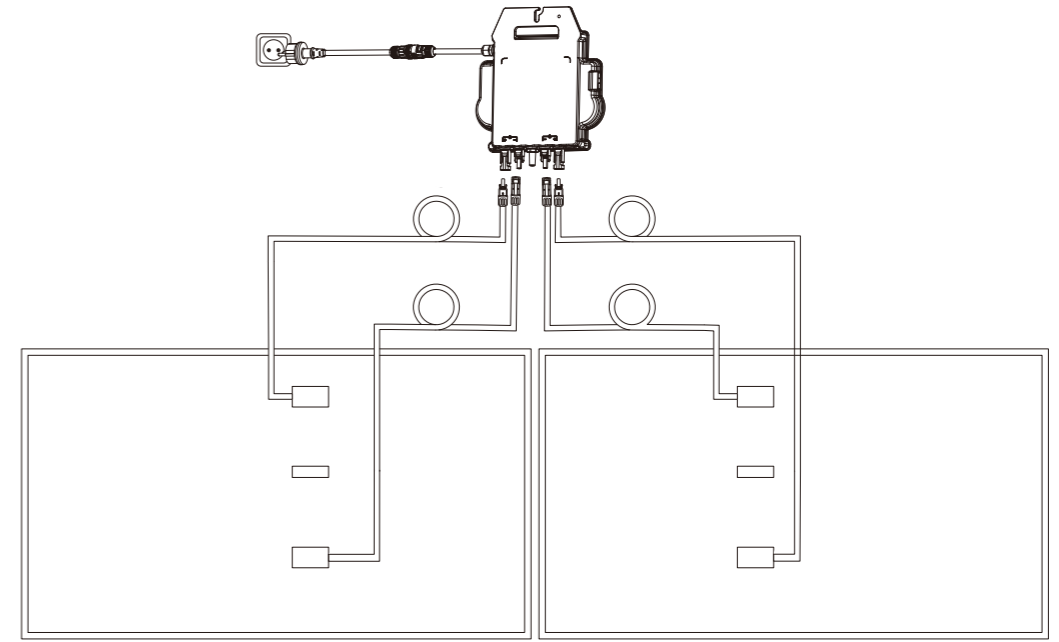
- Connect the microinverter to power cord



- Insert the microinverter AC connector into the power cord connector.

NOTE: When inserting, make sure to align the connector with its limit position, otherwise it may pose a personal safety risk. After aligning the limit position, insert the connector all the way in, and then tighten the connector's connection thread on the inverter side clockwise until there are no gaps.

- Cable Connection



- Insert the power cord into the socket.

Pre-Installation

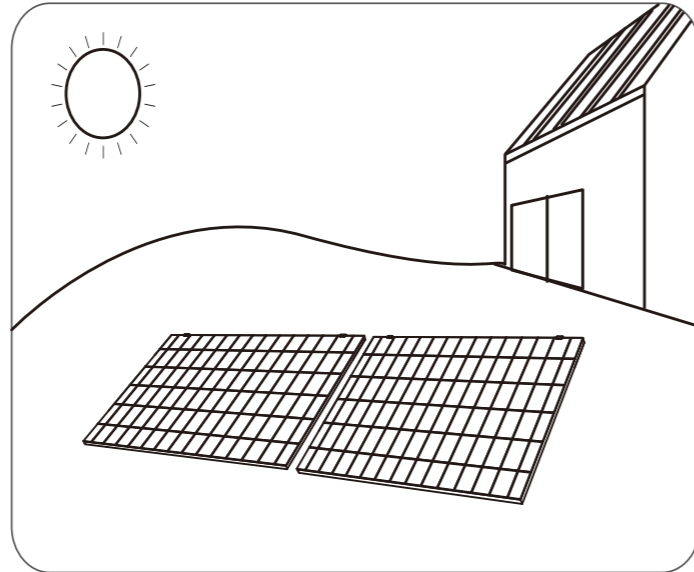
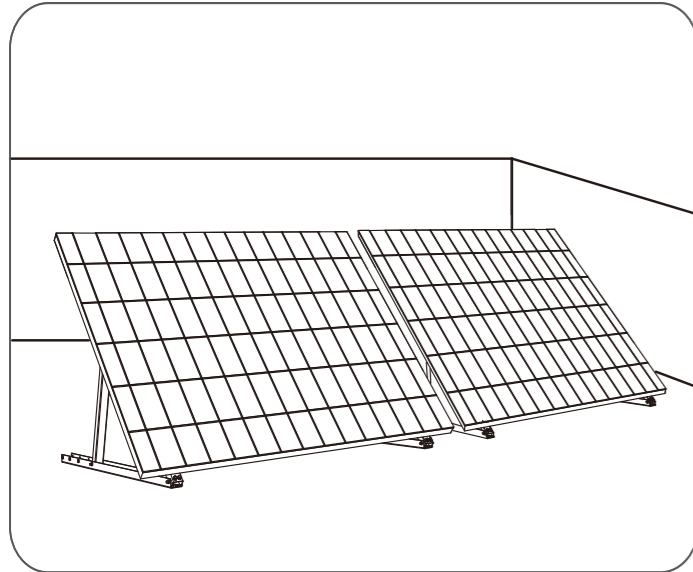
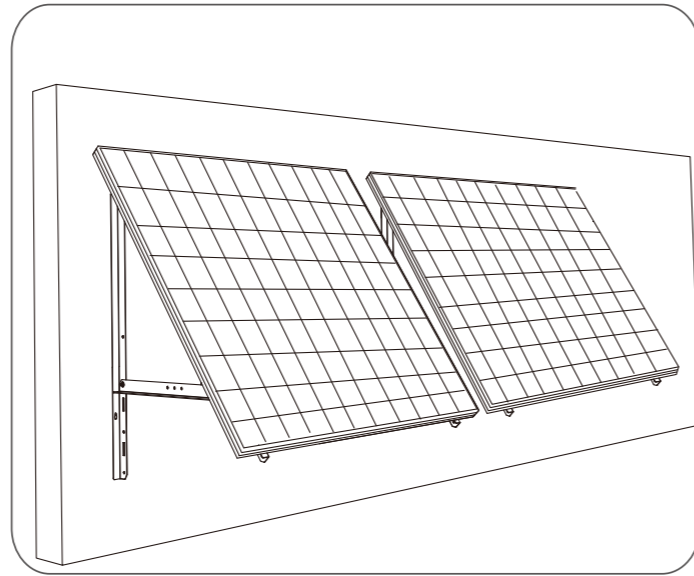
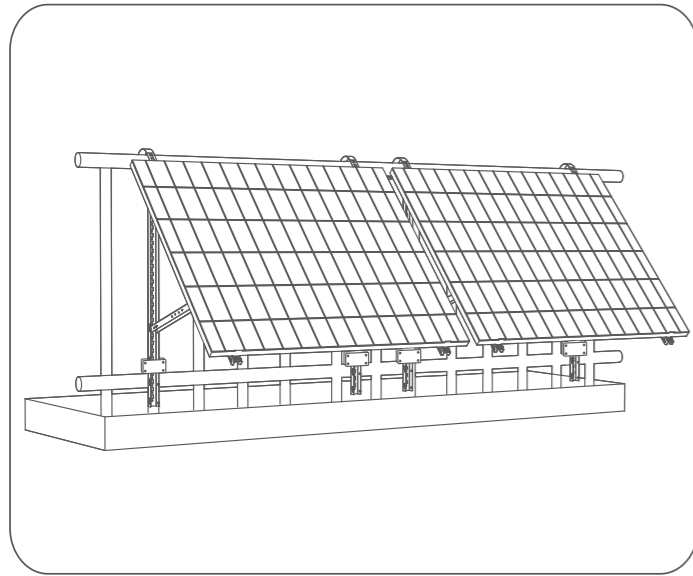
- ⚠ If you wish to verify and commission your solar system immediately, complete the installation when the weather is sunny.
- ⚠ During installation or removal, we recommend that **at least two people** work together.

Selecting a Location

The solar panel can be installed on the balcony or the ground. Different locations require different installation methods and accessories. Select an appropriate location before installing the solar panels.

Step 3

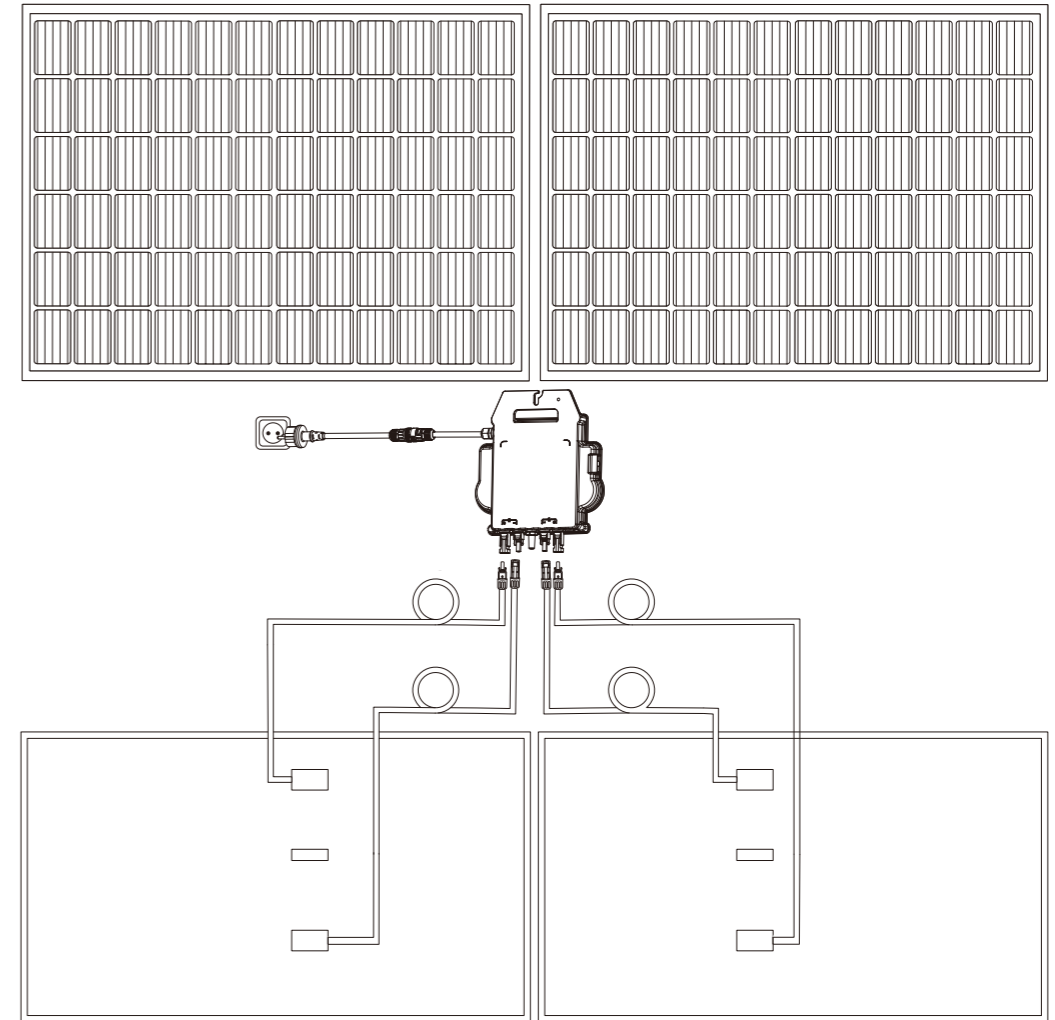
• Installation Scenario



Step 4

• Measuring the Distance

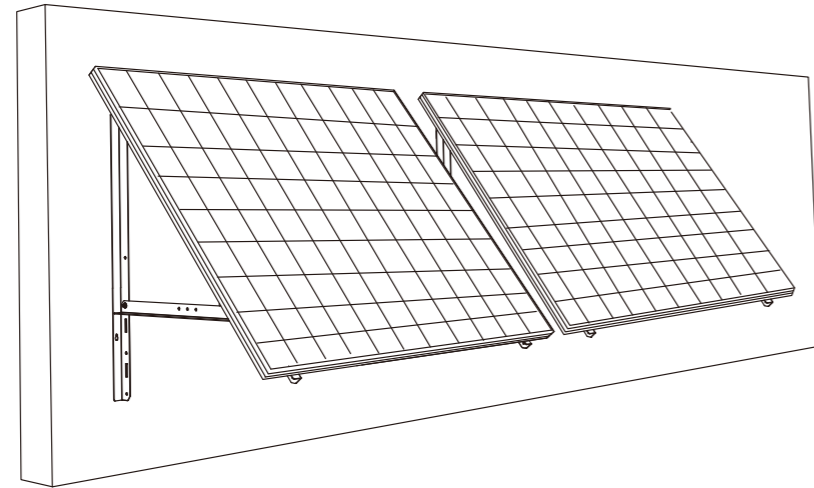
- Determine the position of the microinverter and solar panel with the Schuko connection cable and solar panel's extension cable.




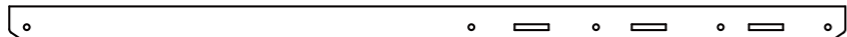
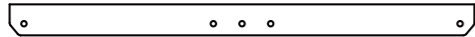



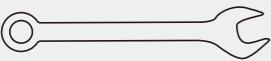
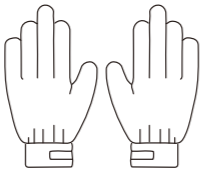
Additional extension cables may be required.
Please purchase them if needed.

Step 5

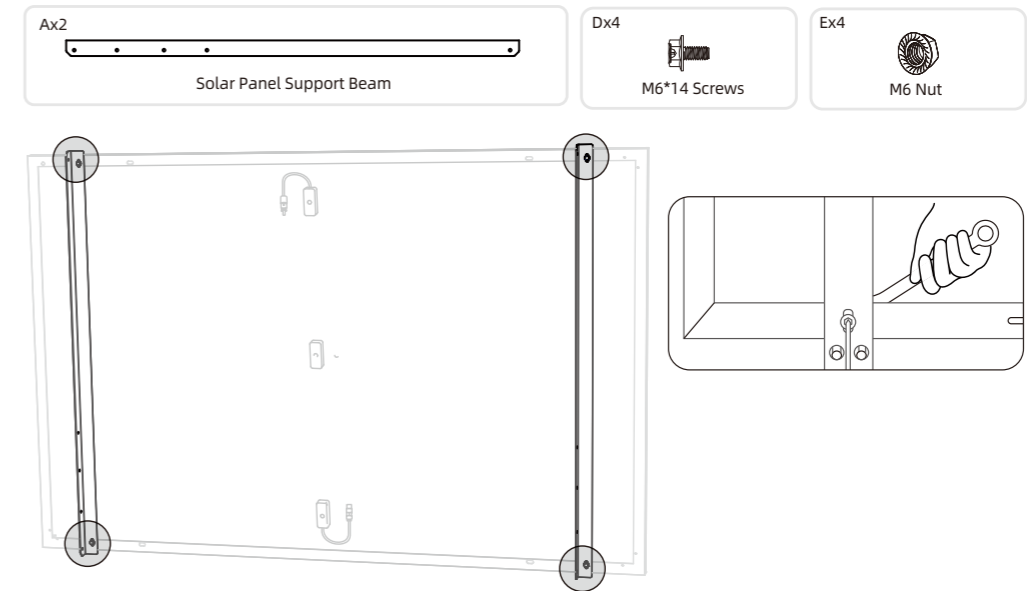
• On the Wall



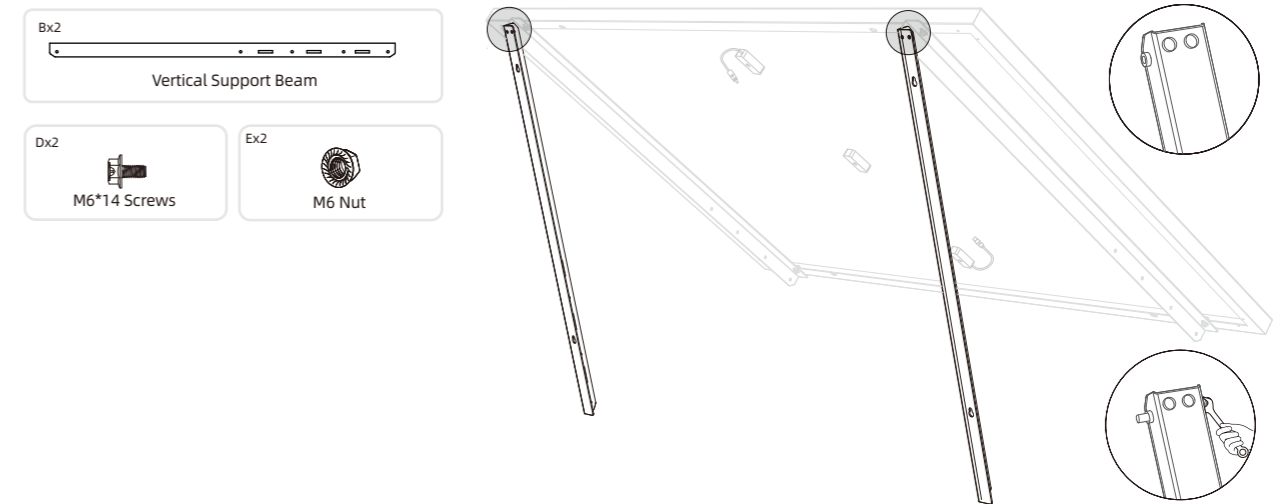
What You Need

<p>A</p>  <p>Solar Panel Support Beam (x2)</p>		
<p>B</p>  <p>Vertical Support Beam (x2)</p>		
<p>C</p>  <p>Lower Support Beam (x2)</p>		
<p>D</p>  <p>M6*14 Screws (x12)</p>	<p>E</p>  <p>M6 Nut (x12)</p>	<p>F</p>  <p>Screwdriver</p>
<p>G</p>  <p>Wrench</p>	<p>(Not included)</p>  <p>Work Gloves</p>	

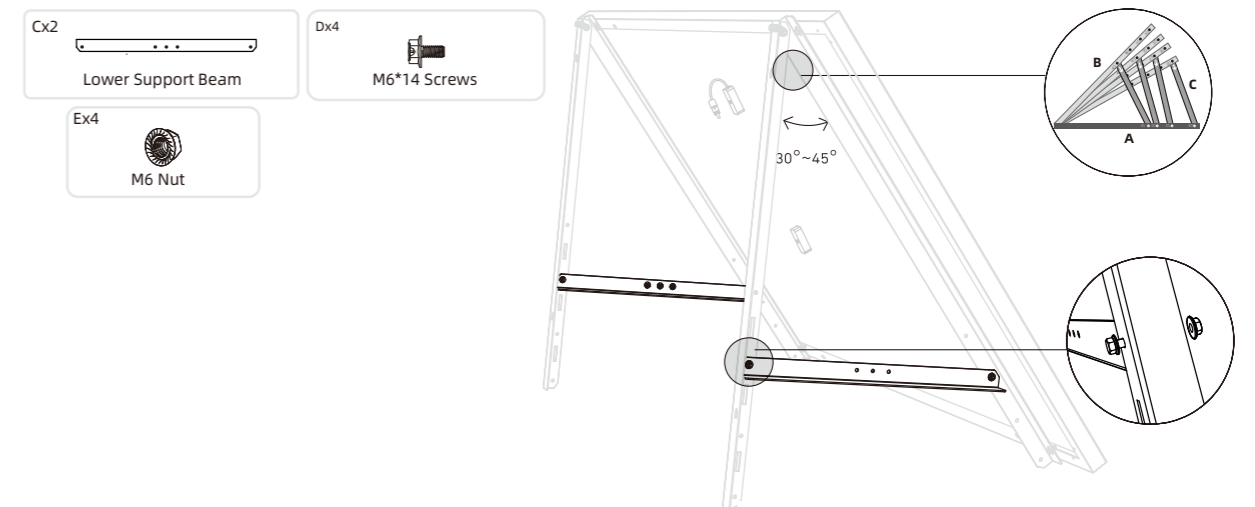
1. Mount the solar panel support beams on the solar panel.



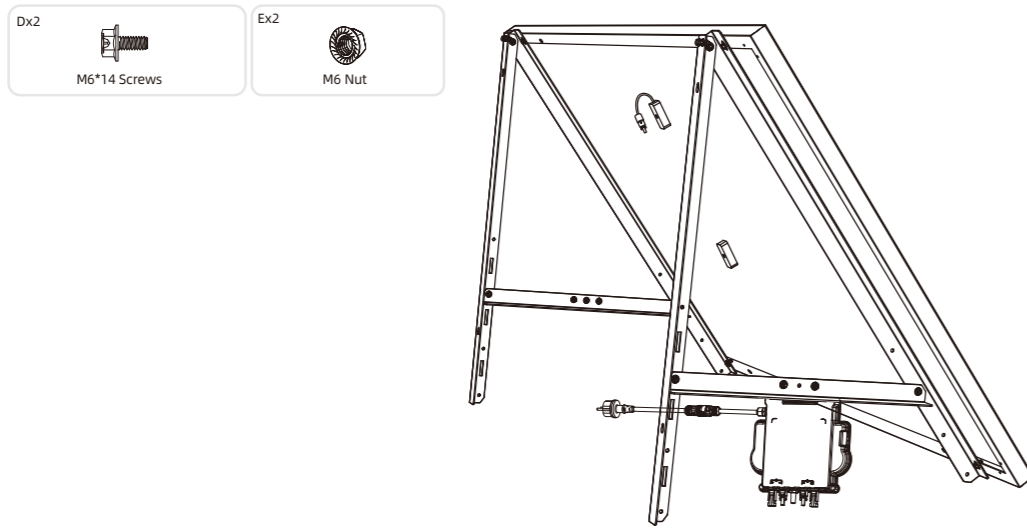
2. Install the vertical support beam and solar panel support beams without tightening the screws.



3. Mount the lower support beams and adjust the angle for maximum sunlight exposure.

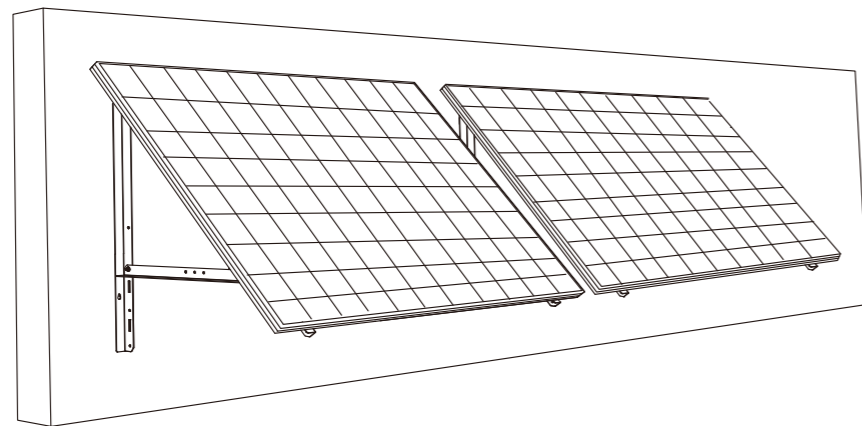


7. Install the microinverter to the lower support beams or anywhere else.



Check if all screws are tightened and complete the installation.

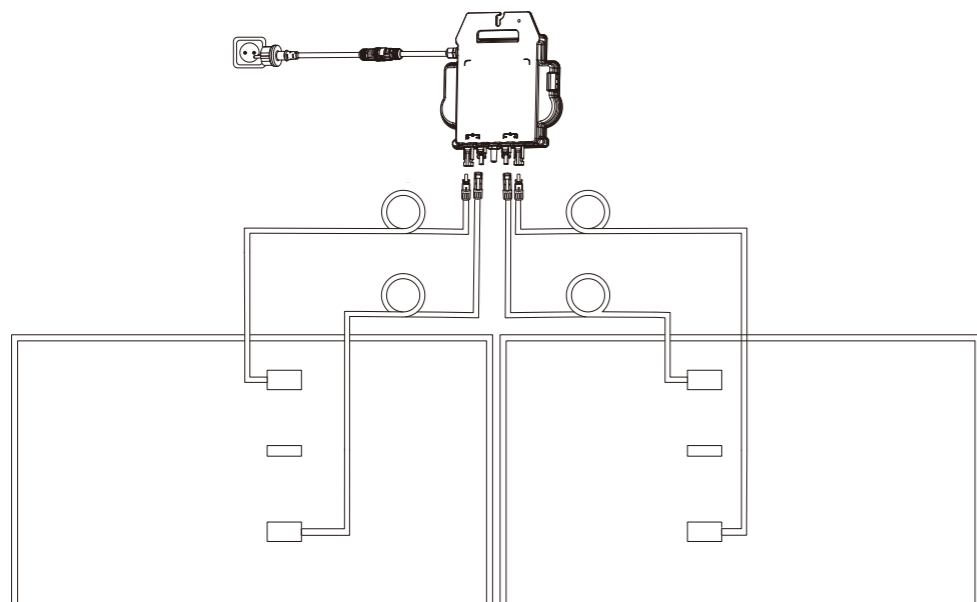
8. Repeat the steps above to install another solar panel.



9. Connect the solar panel and the microinverter .

Note:

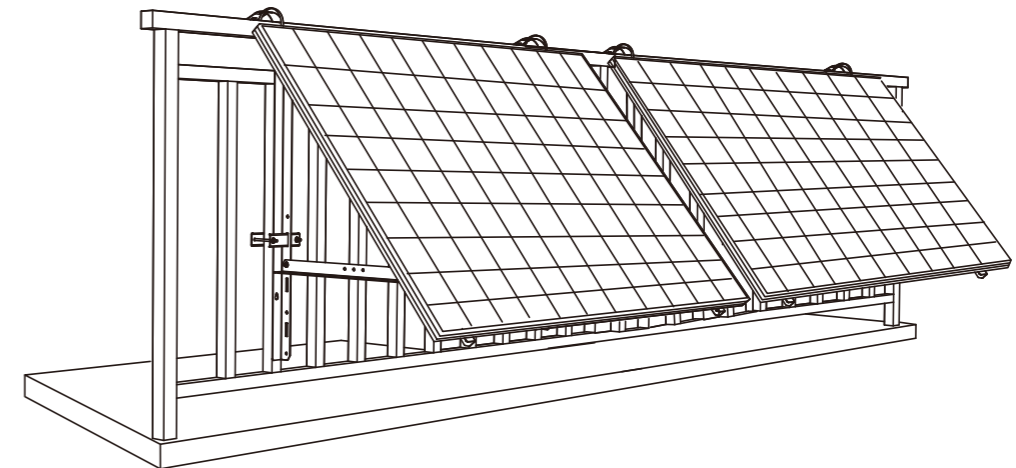
1. Ensure that two solar panels have been installed before this step.
2. This step must be done while there is enough sunlight for the solar panel to provide power to the microinverter.





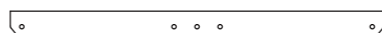
Step 6

• On a Balcony

- Make sure the solar panel can extend over the balcony railing.
- Solar system modules weigh 45kg, so make sure your balcony can support them.



What You Need

- A  Solar Panel Support Beam (x2)
- B  Vertical Support Beam (x2)
- C  Lower Support Beam (x2)

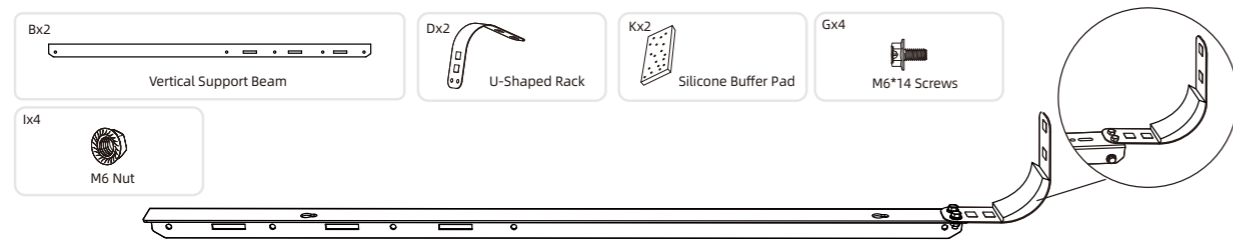
- D  U-Shaped Rack (x2)
- E  Fastening Clamp (x4)
- F  M6x100 Hexagon Flange Bolt (x4)

- G  M6*14 Screws (x17)
- H  Schuko Connector
Schuko Connection Cable
- I  M6 Nut (x21)

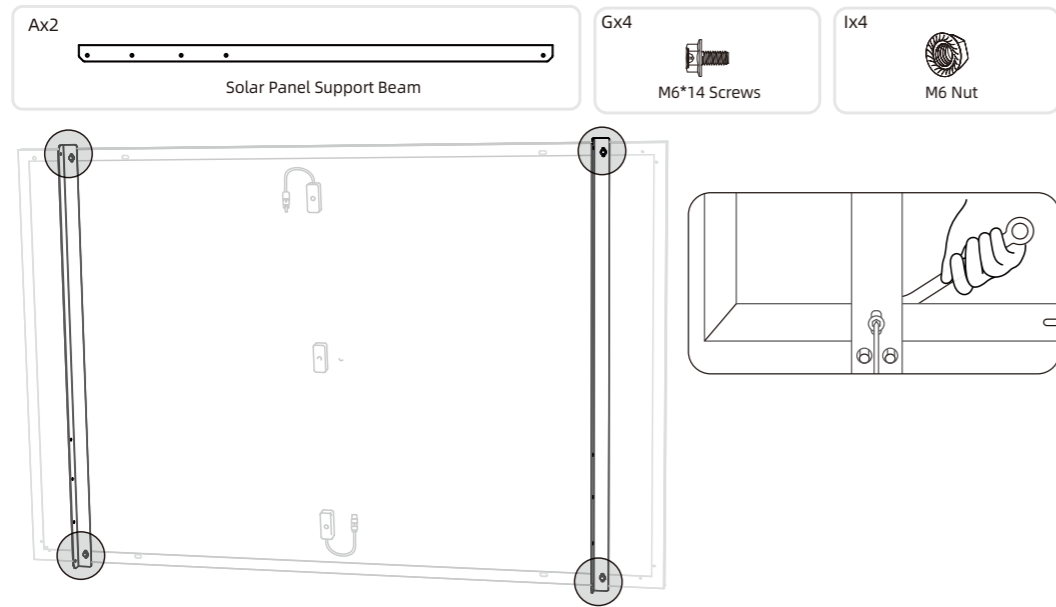
- J  304 Stainless Steel Hose Clamp (x4)
- K  Silicone Buffer Pad (x2)
- L  Screwdriver
- M  Wrench

-  (Not included)
Work Gloves

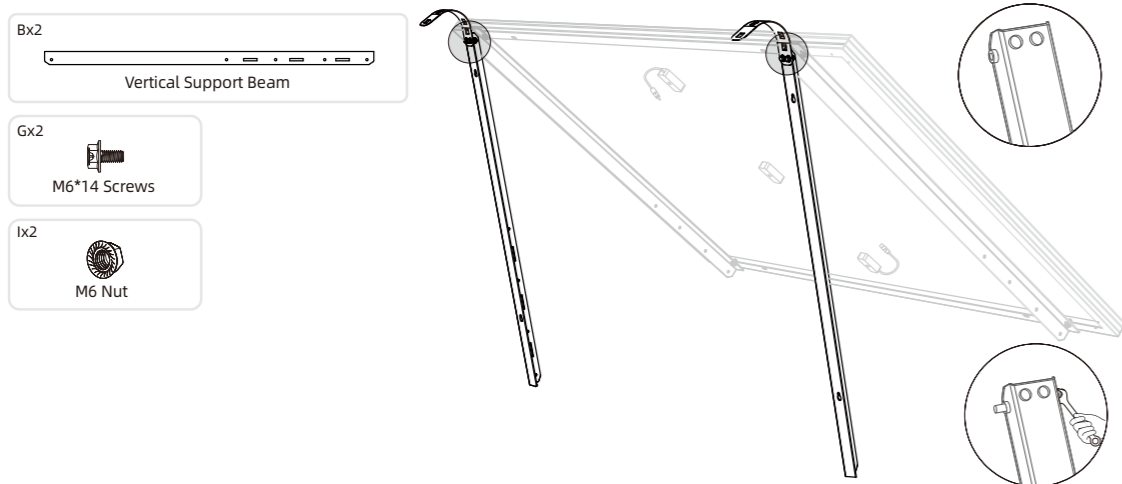
1. Place the silicone buffer pads onto the U-shaped racks, then mount the U-shaped racks to the vertical support beams.



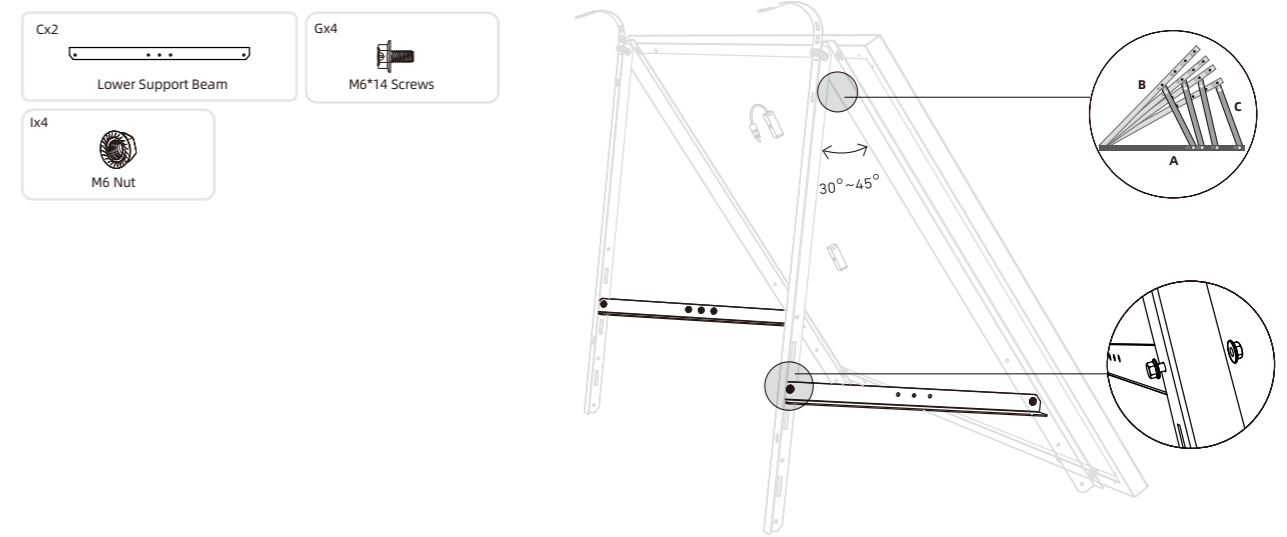
2. Mount the solar panel support beams on the solar panel.



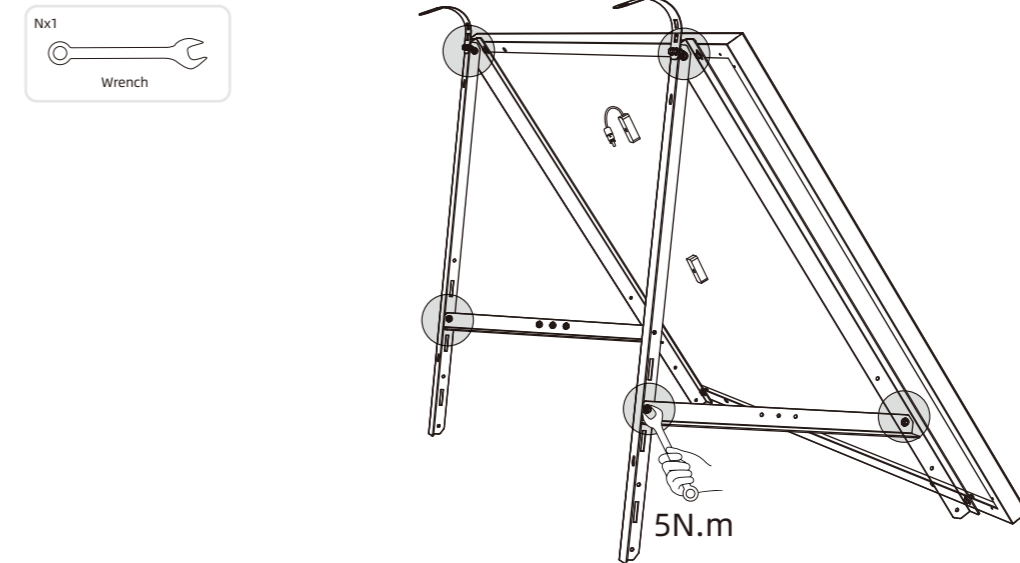
3. Install the vertical beams and solar panel support beams without tightening the screws.



4. Mount the lower support beams and adjust the angle for maximum sunlight exposure.



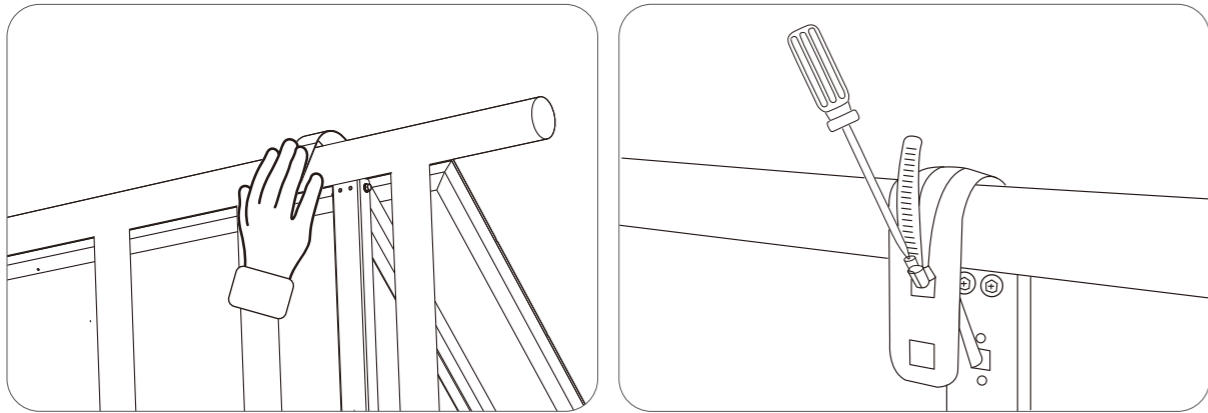
5. Tighten all the screws with 5N.m torque.



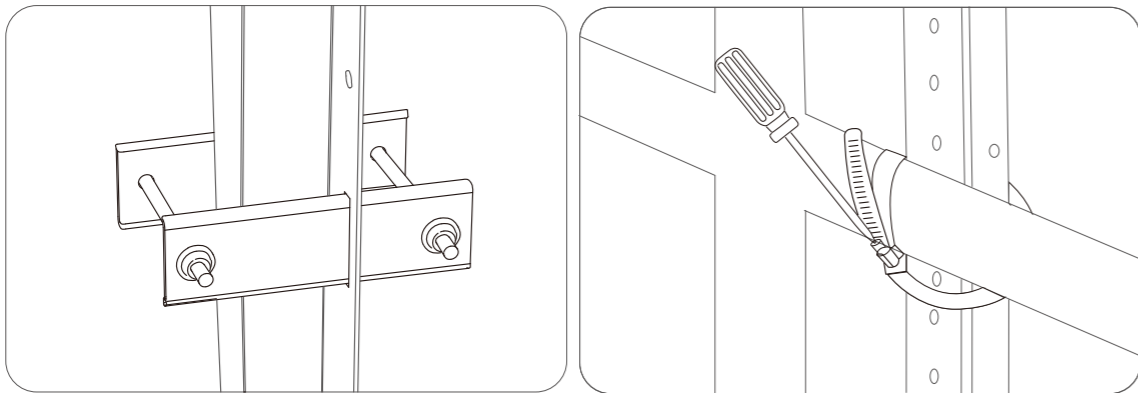
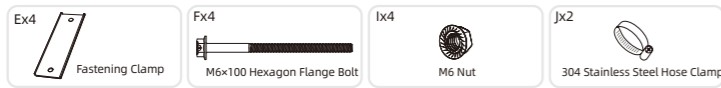
6. Hang the solar panel on the balcony railing and adjust the U-shaped racks manually to fit the shape of the balcony railing. Then, secure the U-shaped racks with stainless steel hose clamps.

⚠ Hold the solar panel until the U-shaped racks are firmly secured with stainless steel hose clamps. Pressing the U-shaped racks too often may cause the paint surface to crack.

- Tighten the stainless steel hose clamps clockwise, and loosen the stainless steel hose clamps counterclockwise.
- At least 2 stainless steel hose clamps are needed to secure the brackets on one side.

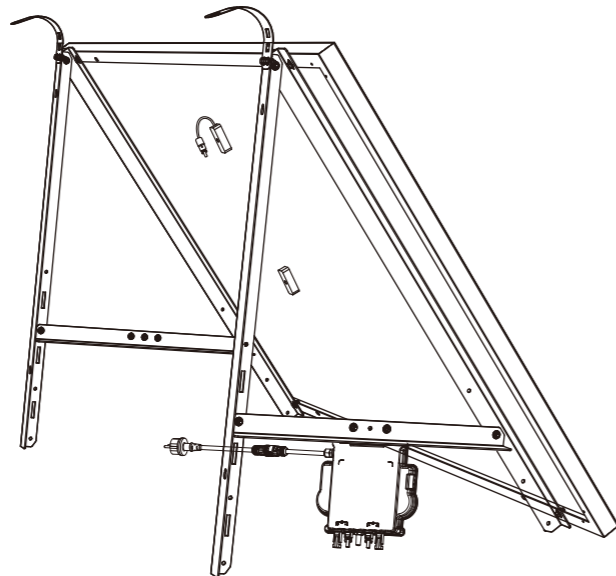
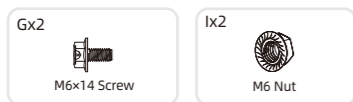


7. Install the solar panel's support brackets on the balcony railing, then secure them using fastening clamps or stainless steel hose clamps.

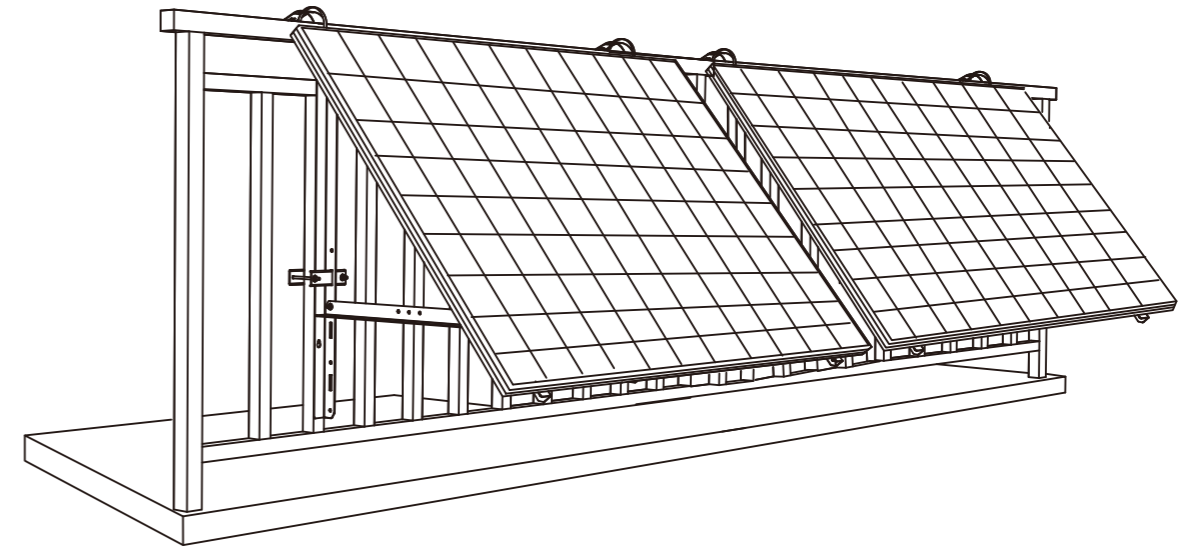


8. Install the microinverter to the lower support beams or anywhere else.

Note: The microinverter's front surface (with the APsystems logo) should face outwards.



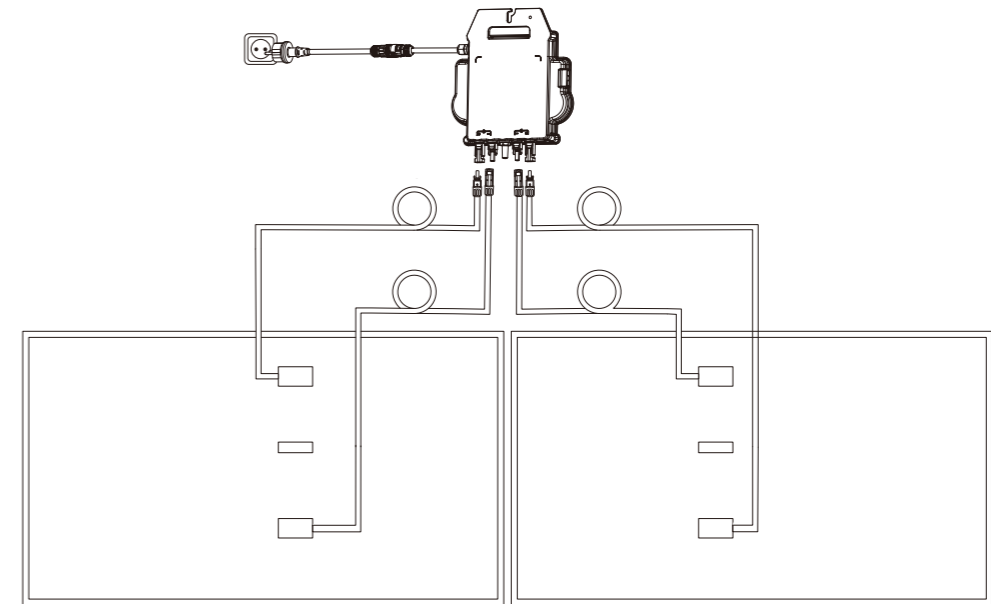
9. Repeat the steps above to install another solar panel.



10. Connect the solar panel and the microinverter .

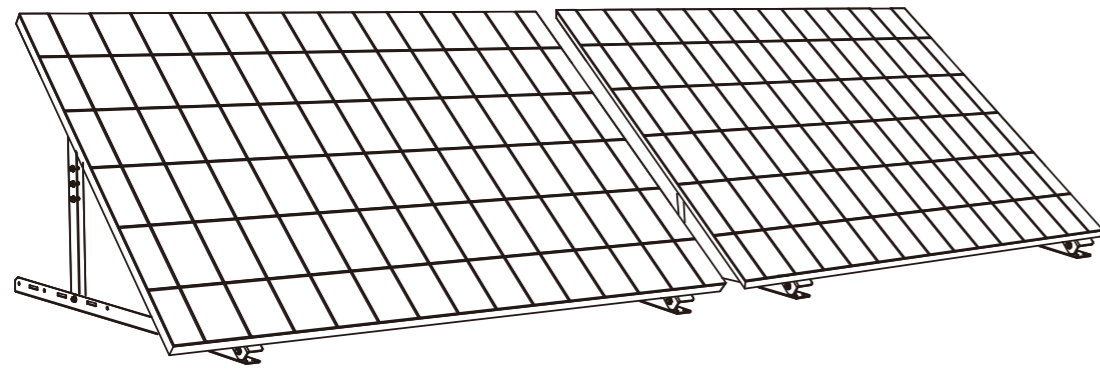
Note:

1. Ensure that two solar panels have been installed before this step.
2. This step must be done while there is enough sunlight for the solar panel to provide power to the microinverter.


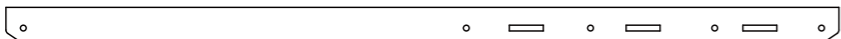
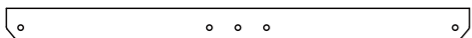



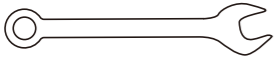



Step 7

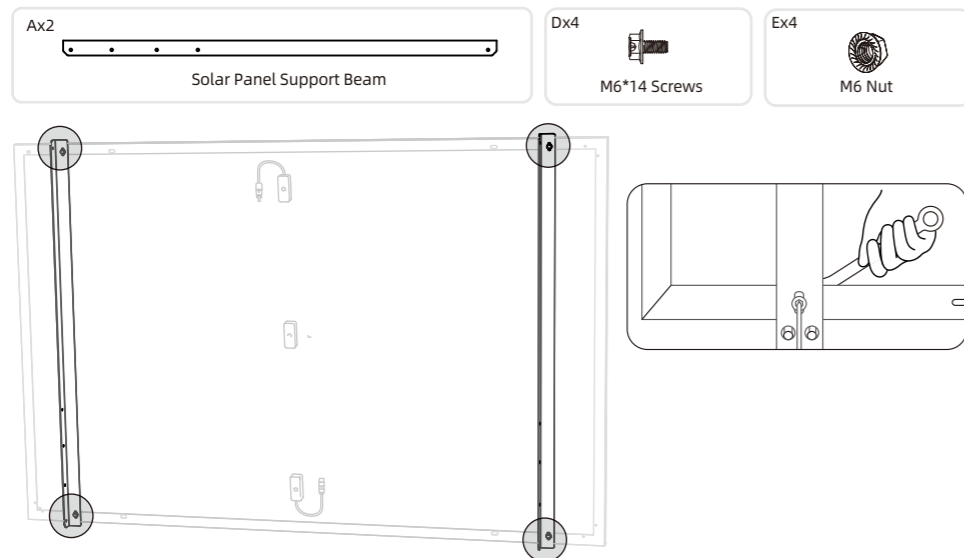
• On the Ground



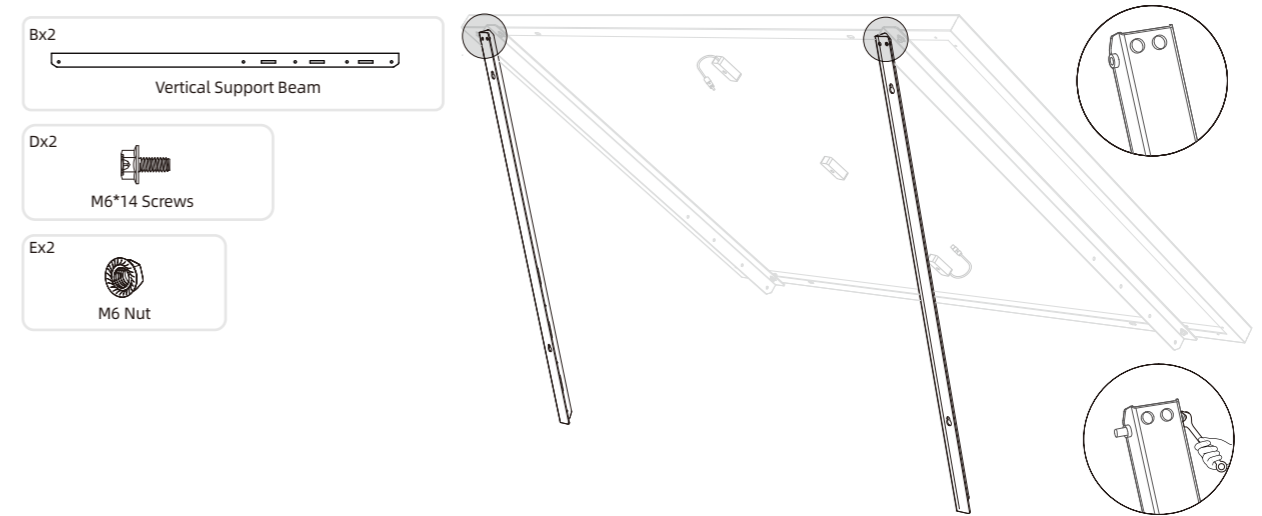
What You Need

A	
	Solar Panel Support Beam (x2)
B	
	Vertical Support Beam (x2)
C	
	Lower Support Beam (x2)
D	
	M6*14 Screws (x12)
E	
	M6 Nut (x12)
F	
	Screwdriver
G	
	Wrench
	 (Not included) Work Gloves

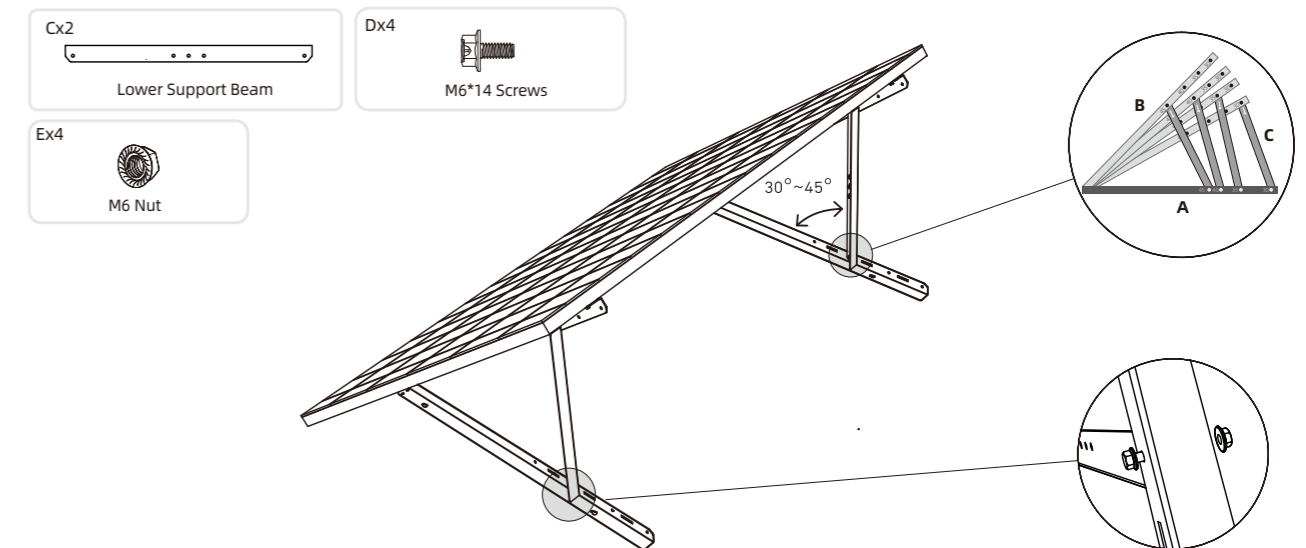
1. Mount the solar panel support beams on the solar panel.



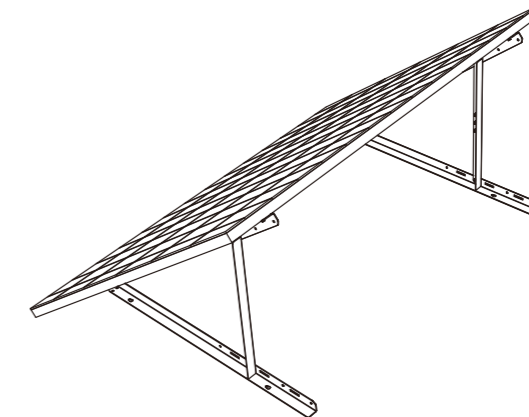
2. Install the vertical support beams and solar panel support beams without tightening the screws.



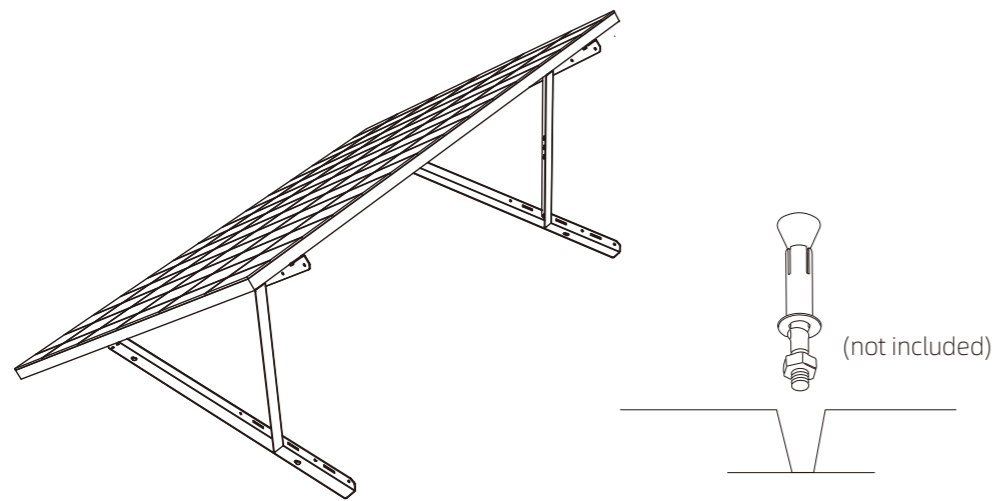
3. Mount the lower support beams and adjust the angle for maximum sunlight exposure.



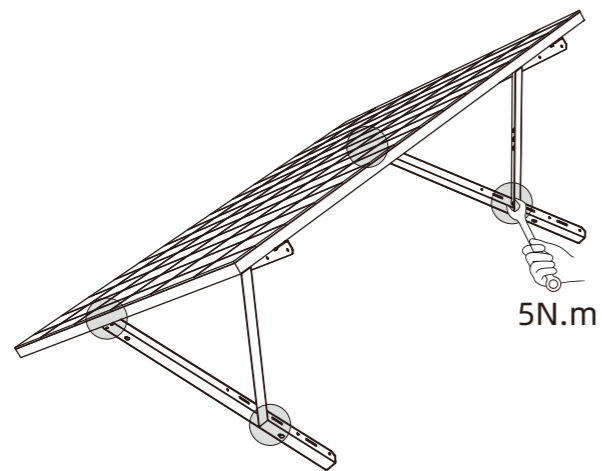
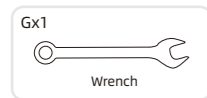
4. Align the solar panel with the holes on the vertical support beams to mark four mounting points. Mounting points on the same vertical support beam should be 700mm (27.6in) apart.



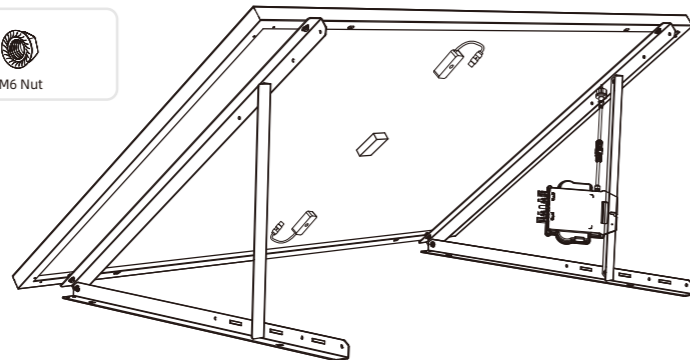
5. Remove the solar panel, mark the mounting points, and drill the holes with an electric drill. Then, secure the beams with anchors .



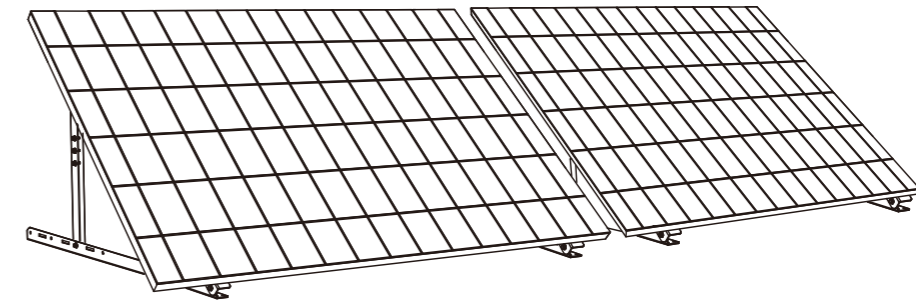
6. Tighten all the screws with 5N.m torque.



7. Install the microinverter to the lower support beams.



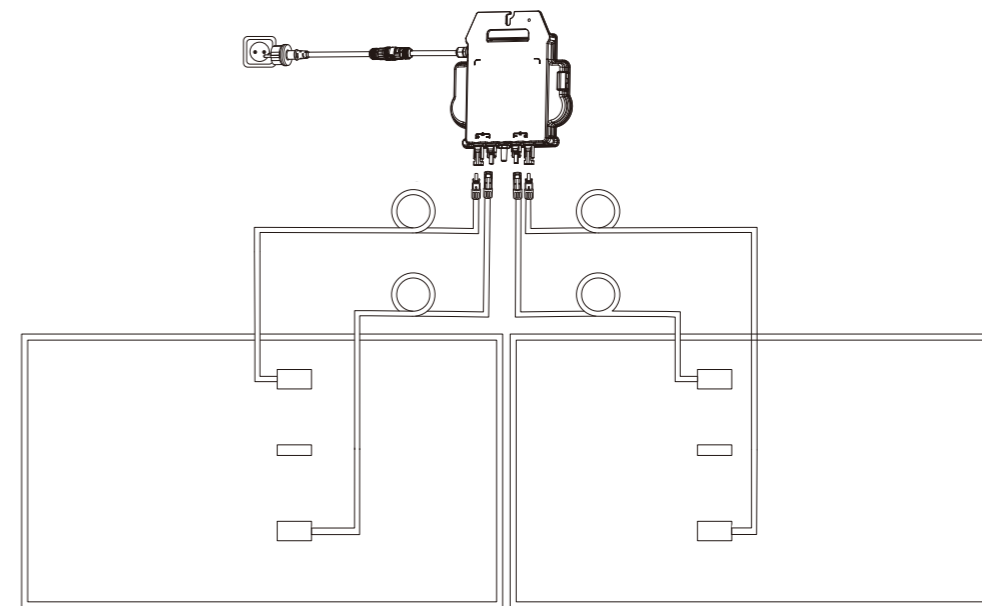
8. Repeat the steps above to install another solar panel.



9. Connect the solar panel and the microinverter with the solar panel extension cables.

Note:

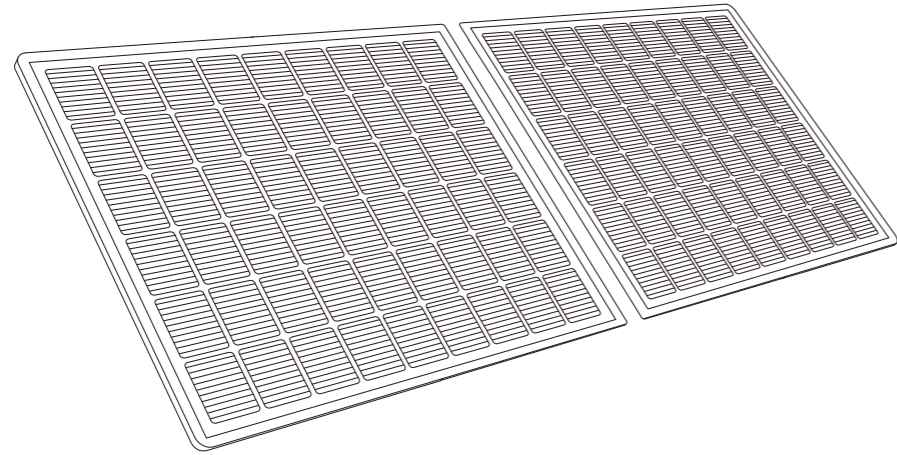
1. Ensure that two solar panels have been installed before this step.
2. This step must be done while there is enough sunlight for the solar panel to provide power to the microinverter.



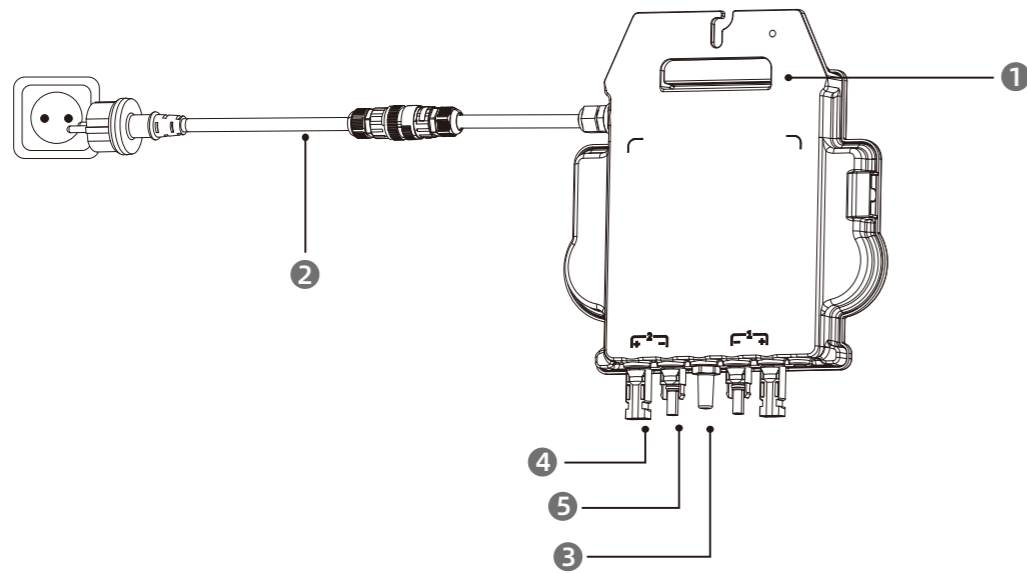
Step 8

• Mounting Without Solar Panel Tilt Mount Brackets

- Components Overview
- Solar Panel



• Microinverter



Note: The product's appearance varies by supplier and batch.

- | | | |
|-----------------|----------------------|-----------------|
| 1. Mounting | 3. Wi-Fi Module | 5. QC4 Male Pin |
| 2. AC Connector | 4. QC4 Female Socket | |

Pre-Installation

- ⚠ If you wish to verify and commission your solar system immediately, complete the installation when the weather is sunny.
- ⚠ During installation or removal, we recommend that at least two people work together.

Selecting a Location

The solar panel can be installed on the balcony or the ground. Different locations require different installation methods and accessories. Select an appropriate location before installing the solar panels.

Pre-Installation

- ⚠ If you wish to verify and commission your solar system immediately, complete the installation when the weather is sunny.
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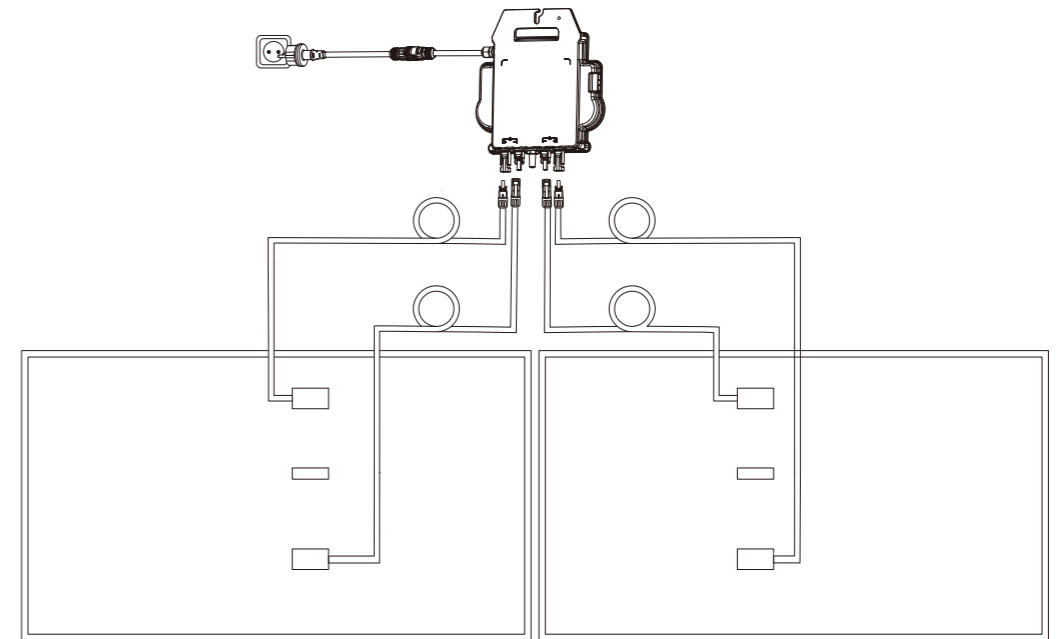
Selecting a Location

The solar panel can be installed on the balcony or the ground. Different locations require different installation methods and accessories. Select an appropriate location before installing the solar panels.

NOTE: Please refer to the **Safety Instructions and Datasheets** to get the product size and select the appropriate location.

Measuring the Distance

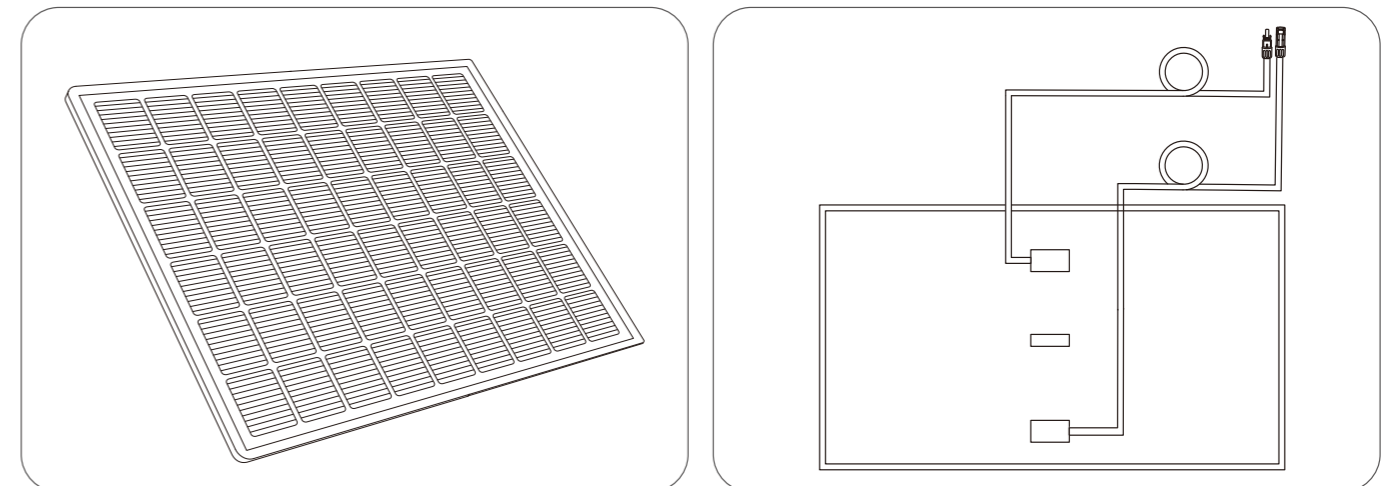
Determine the position of the microinverter and solar panel with the Schuko connection cable and solar panel's extension cable.



💡 Additional extension cables may be required. Please purchase them if needed.

Installation

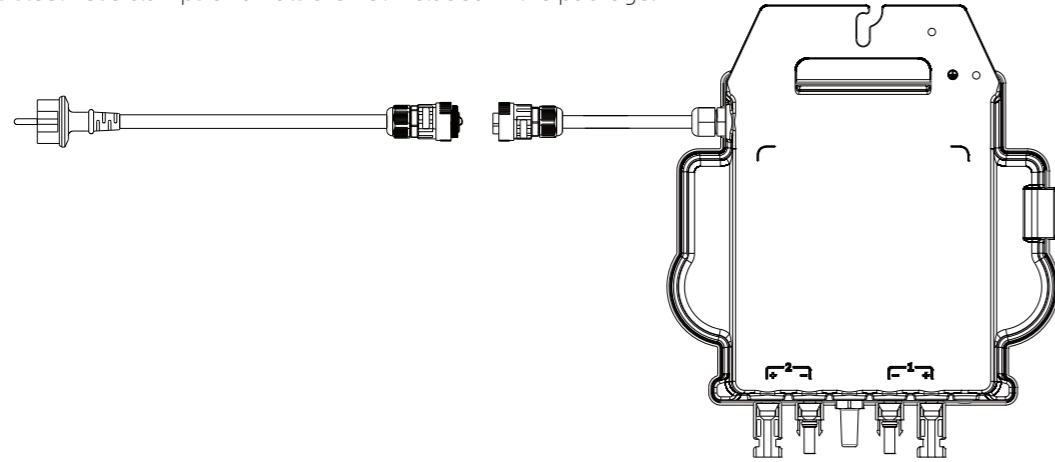
1. Connect the solar panel with the solar panel extension cable.



2. Select an appropriate location to install the microinverter.

Note: The microinverter's front surface (with the APsystems logo) should face outwards. The microinverter can be installed with the stainless steel hose clamp and nuts.

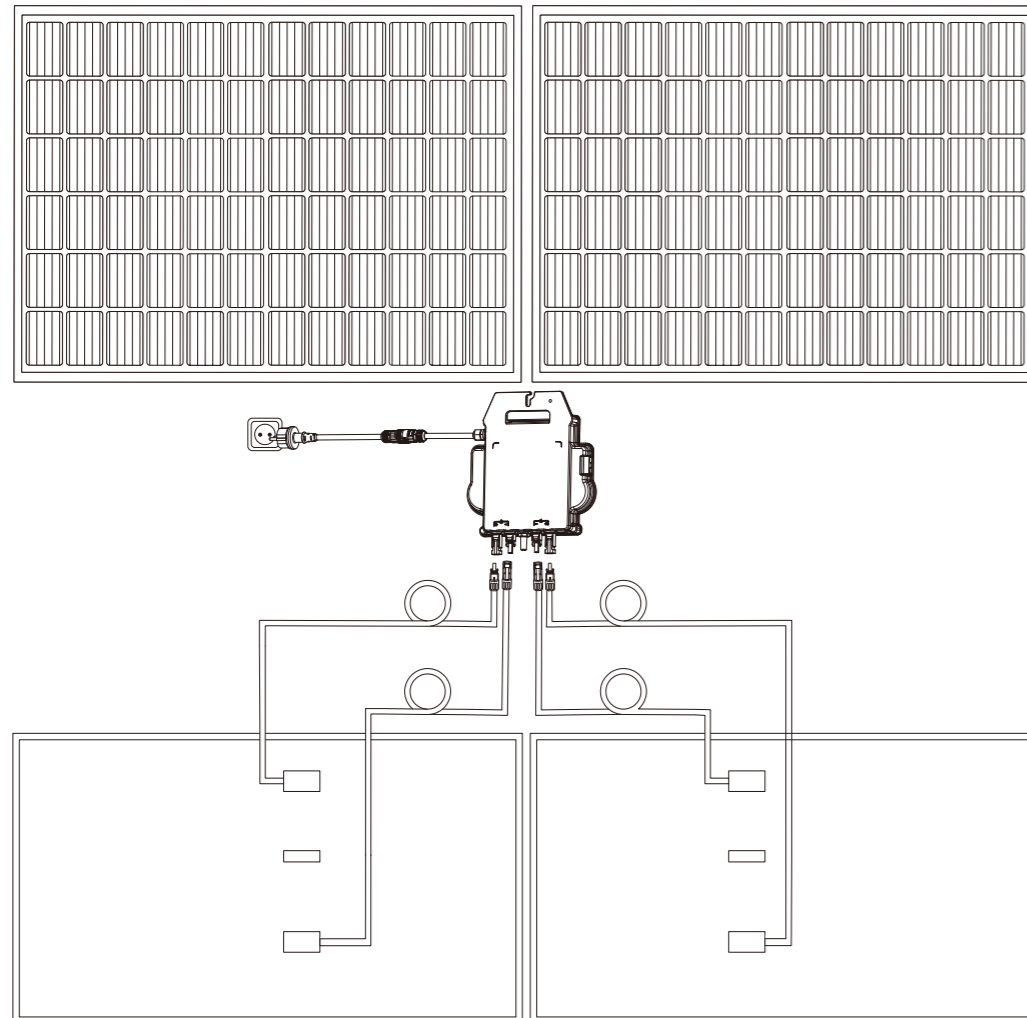
*The stainless steel hose clamps and nuts are not included in the package.



3. Connect the solar panel and the microinverter.




Note:

1. Ensure that two solar panels have been installed before this step.
2. This step must be done while there is enough sunlight for the solar panel to provide power to the microinverter.



Step 9 Optional

• especially for the Maximum Power Setting if the default power is 600VA

	Install AP EasyPower APP	
	<ul style="list-style-type: none"> • Go to App Store • Search "AP EasyPower" • Download and install NOTE: iOS: 10.0 and up 	
		<ul style="list-style-type: none"> • Go to Google Play Store • Search "AP EasyPower" • Download and install NOTE: Android: 7.0 and up

• Please refer to the "AP EasyPower User Manual" for the APP instruction.

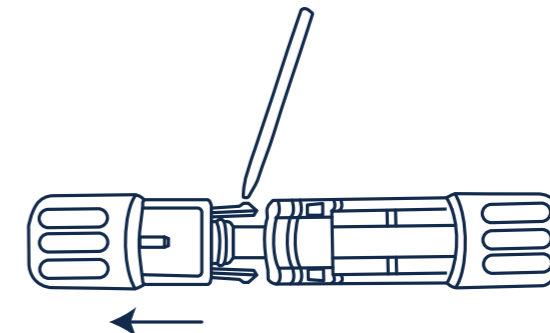
Troubleshooting

1. Check the connection to the utility grid. Verify that the utility voltage and frequency are within the allowable ranges shown on the label of the microinverter.
2. Verify if utility power is present in the inverter by removing AC, then DC power. Do not disconnect the DC wires when the microinverter is producing power. Reconnect the DC module connectors and the LED should blink.
3. Check the interconnection harness of the AC branch circuit. Verify that the microinverter is powered by the utility grid as described in the previous step.
4. Ensure all AC disconnects are closed and functioning properly.
5. Make sure the DC voltage on the solar panels does not exceed the range listed on the microinverter label.
6. Check the DC connections between the microinverter and the solar panel.
7. When changing Wi-Fi networks, disconnect the AC wires first.

Maintenance

Disconnect the Microinverter from the Solar Panel

1. Disconnect the Schuko connection cable.
2. Disconnect the Schuko connection cable from the microinverter.
3. Protect the connector with insulation and waterproof protection materials.
4. Using a DC current probe, verify that there is no current flow in the DC wires between the solar panel and the microinverter.
5. Measure DC currents with care. Zero drift in the meter may occur over time.
6. Disconnect the solar panel's DC wire connectors from the microinverter.



Warranty

25-Year Limited Warranty for APEX-108H-400-425M10 Solar Panel

12-Year Limited Warranty for Microinverter

1-Year Limited Warranty for APEX Solar Panel Extension Cable and APEX MI60 to Schuko Connection Cable

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When returning items for non-quality issues, the buyer assumes responsibility for any damage or loss incurred in transit. APEX does not provide refunds for items damaged in transit for non-quality-related warranty claims.

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