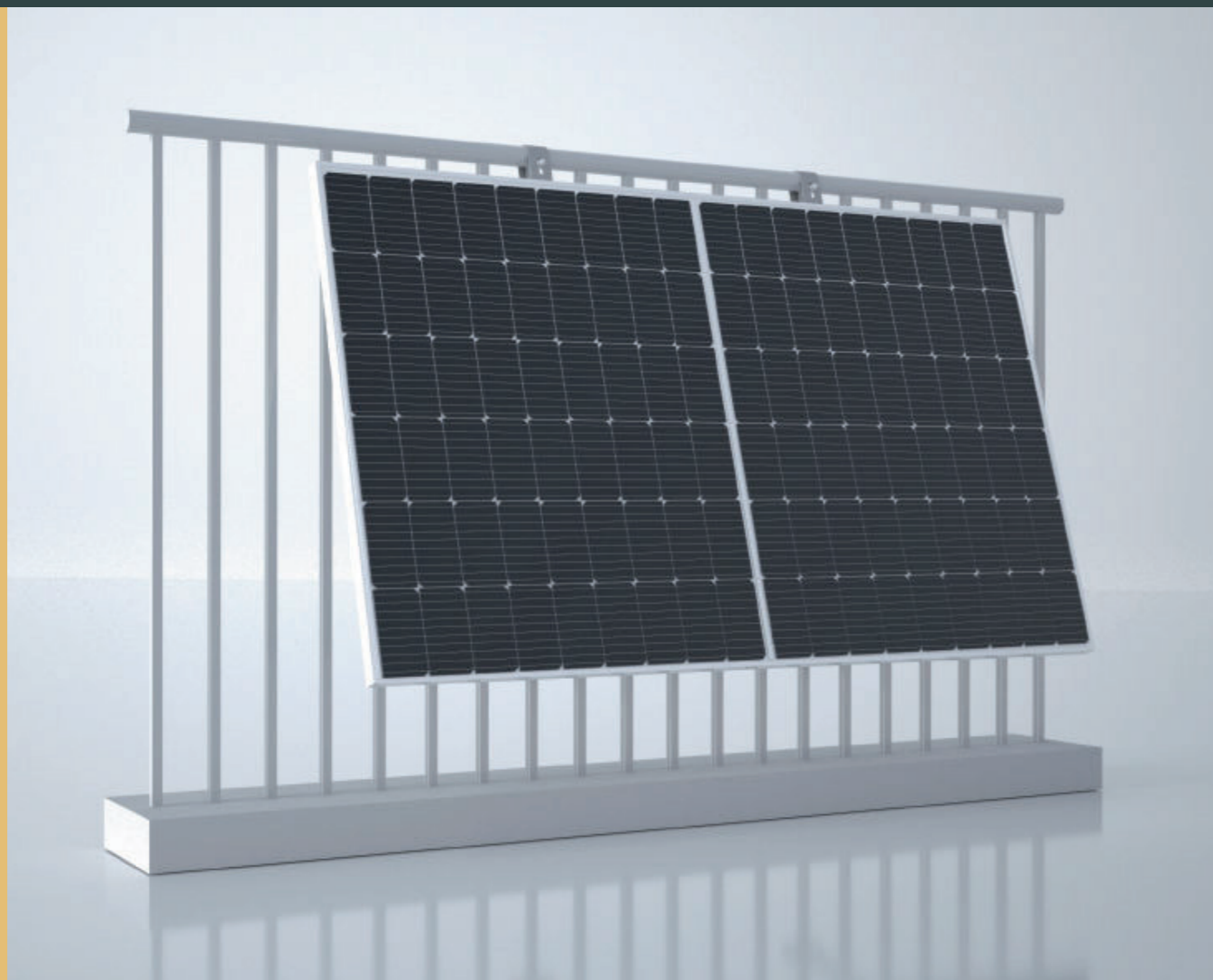




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**INSTALLATION MANUNAL
FOR YOUR SOLAR PANEL KIT**

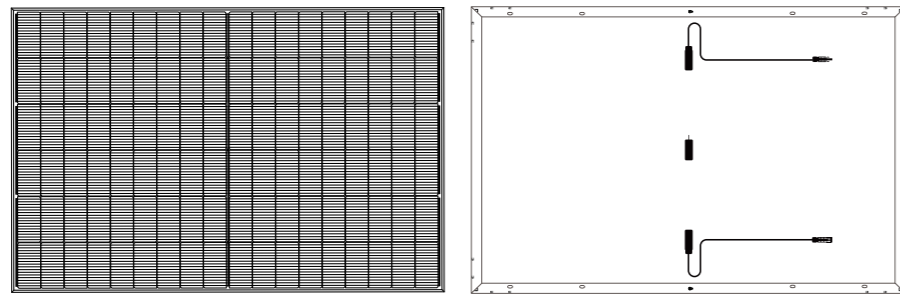


Scan to get the user manual
and installation video for
your solar panel kit

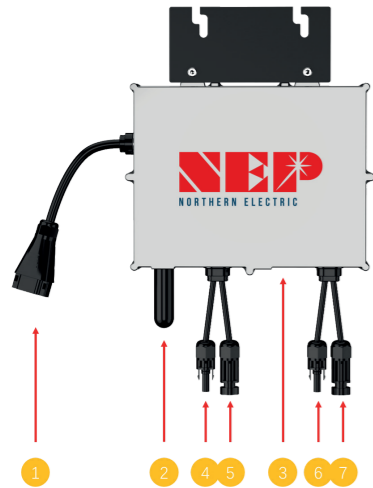
esunra.com

Components Overview

Solar Panel ×2

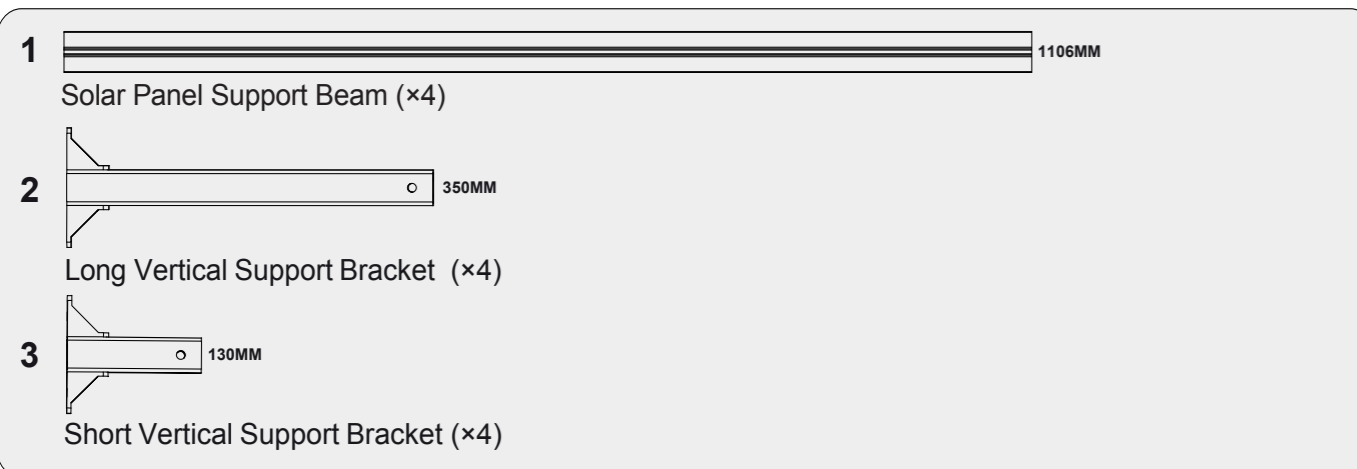


Microinverter ×1



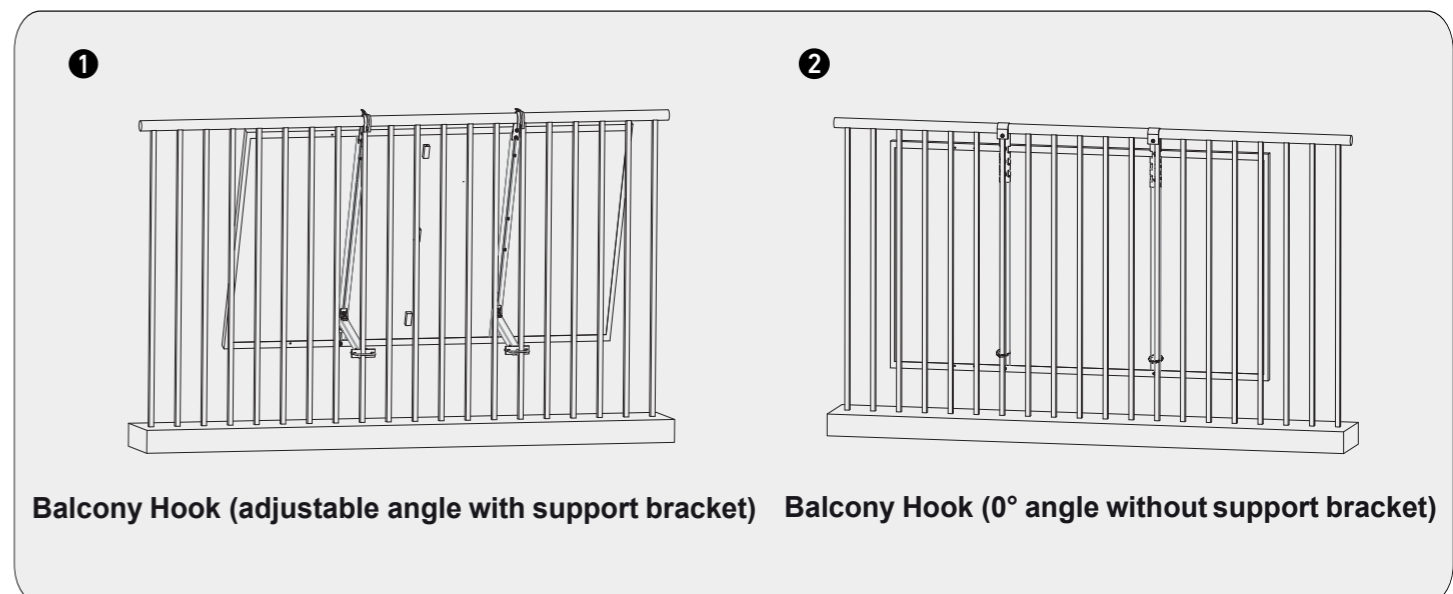
1	AC Output Terminal
2	WiFi Dongle (optional)
3	LED display
4	DC input 1 (+)
5	DC input 1 (-)
6	DC input 2 (+)
7	DC input 1 (-)

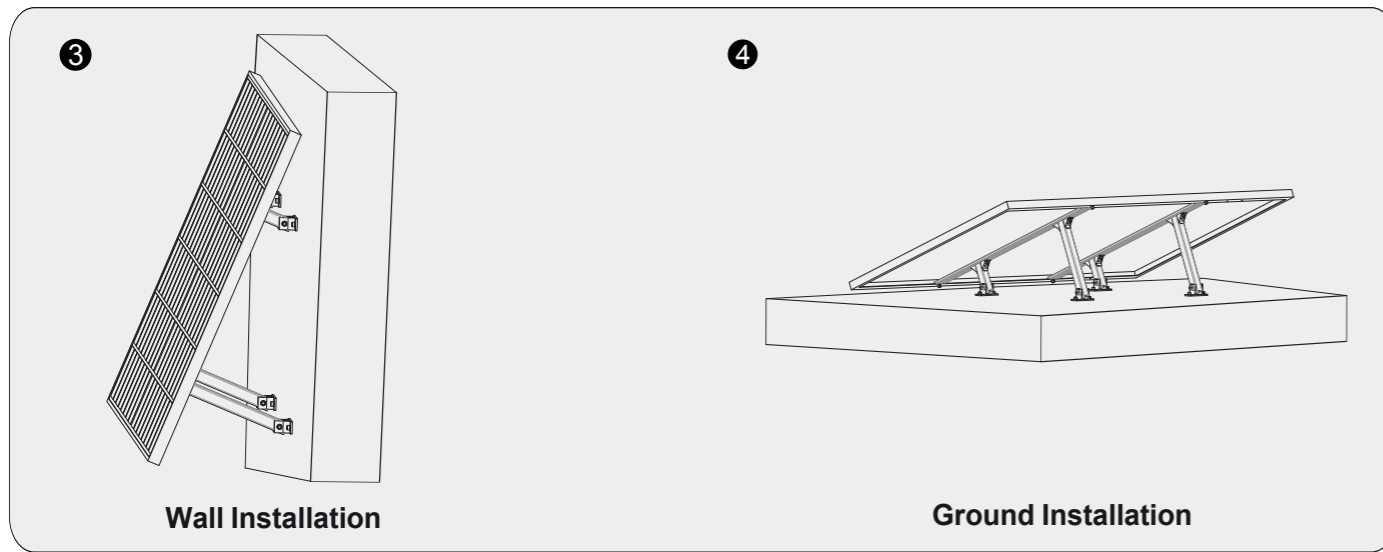
Accessories



<p>4 U-Shaped Hook (×4)</p>	<p>5 Adjustable Support Feet (×8)</p>	<p>6 U-Clamps (×4)</p>
<p>7 M8×80 Hexagon Flange Bolt (×4)</p>	<p>8 M8×55 Hexagon Flange Bolt (×8)</p>	<p>9 M8×20 Screw (×4)</p>
<p>10 M8*16 Screw (×24)</p>	<p>11 M8 Expansion Screw (×16)</p>	<p>12 Screw Fixed Slider (×32) (Pre installed in serial No.1)</p>
<p>13 Internal Hexagon Wrench</p>	<p>15 Installation Manual</p>	<p>16 Work Gloves (×2)</p>
<p>14 Hexagon Wrench</p>	<p>17 AC Connection Cable</p>	<p>18 UV Resistant Plastic Zip Ties (×8)</p>
<p>19 Stainless Steel Zip Tie (×4)</p>		

Installation Method



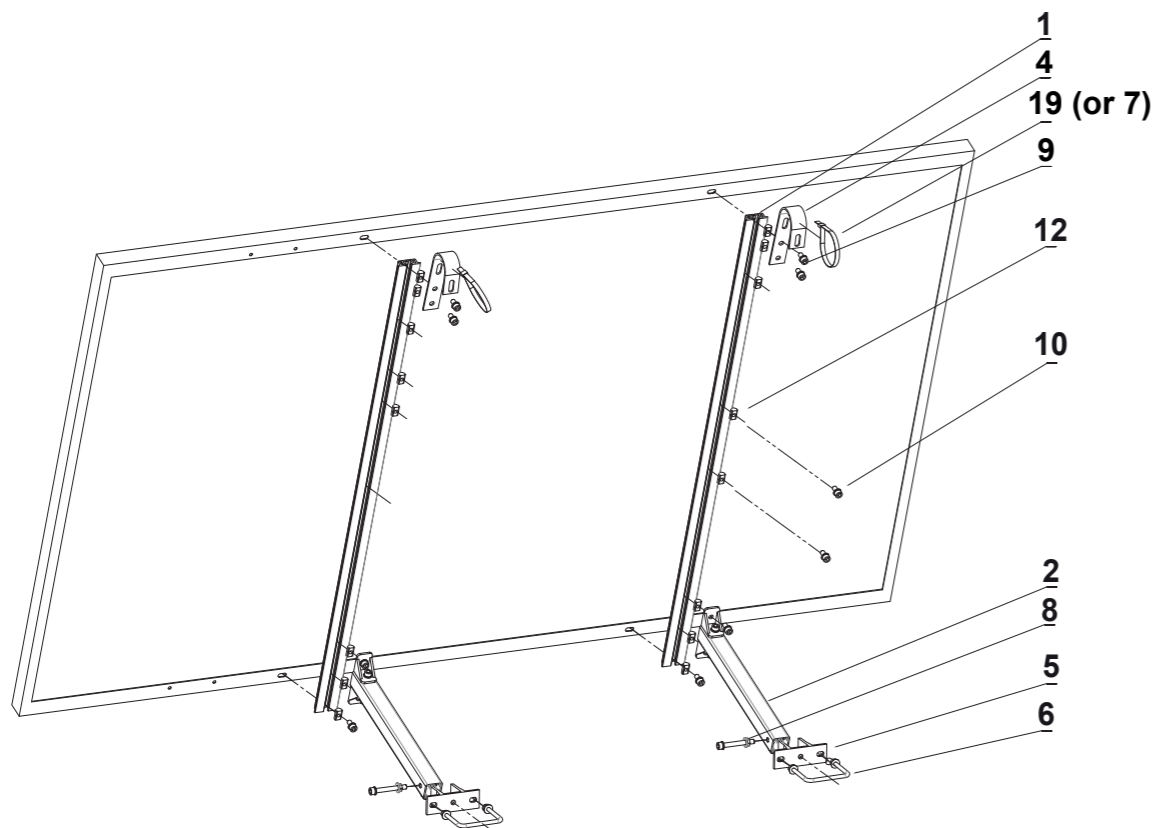


Installation Steps Details

Note

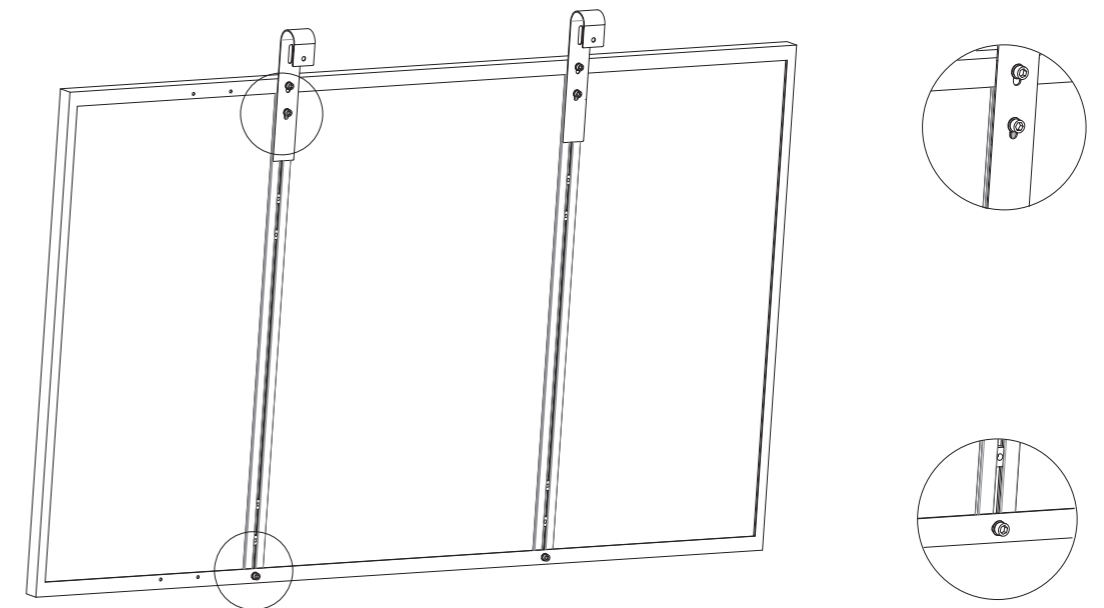
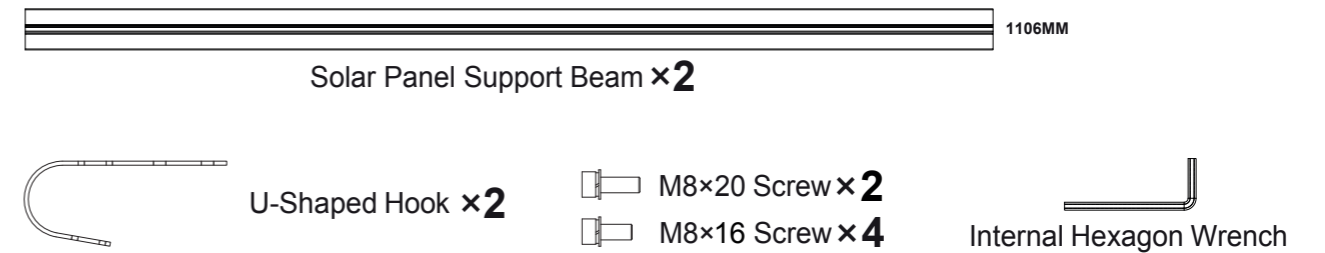
- ⚠ If you wish to verify and commission your solar system immediately, complete the installation when the weather is sunny.
- ⚠ During installation or removal, we recommend that at least two people work together.
- ⚠ Before installation, please lean the solar panel against the wall or lay it flat on a flat and smooth ground with the back facing outward, and cut off the cable ties on the back of the solar panel

1. Balcony Hook (adjustable angle with support bracket)

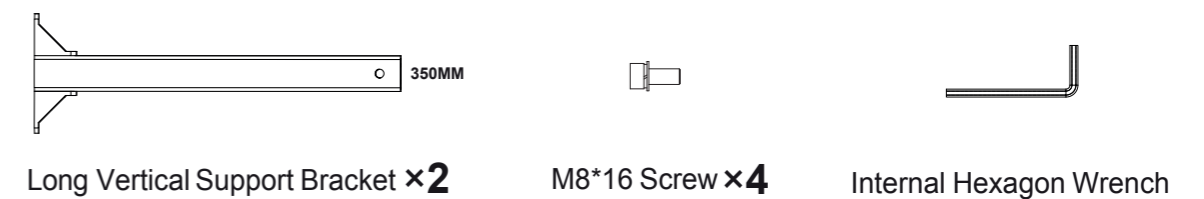


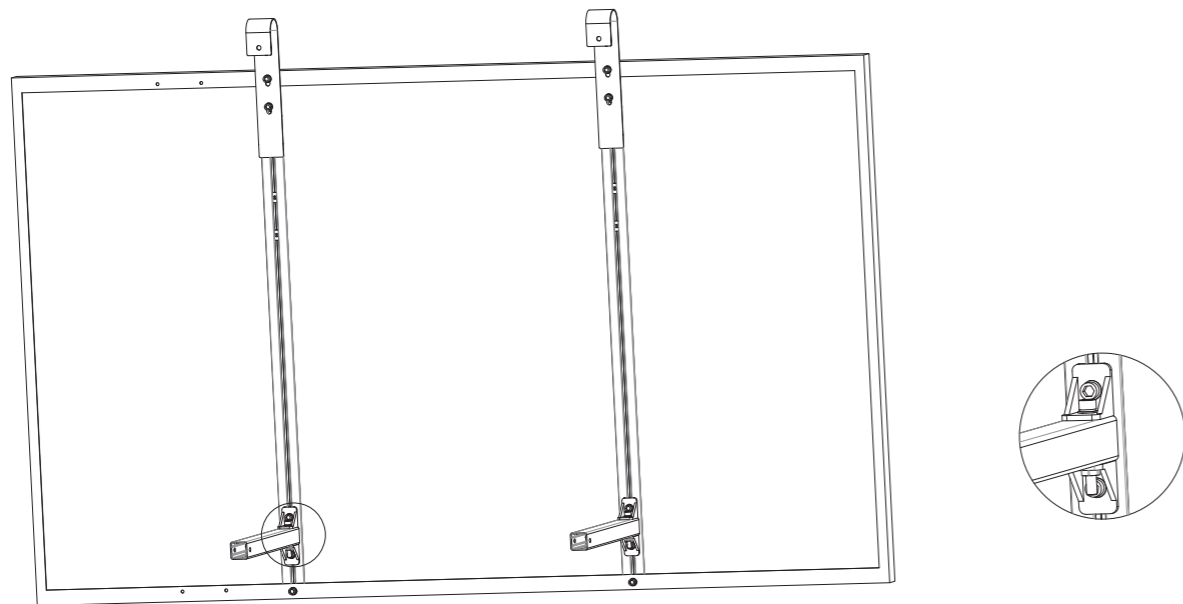
Explosion Diagram Of Bracket

- **Step 1:** First, place 1 on the inner side of the back frame of the solar panel align 12 with the installation holes on the frame, clip 4 onto the solar panel frame, align the holes with the holes on the frame and 12, and fix them with 9 and 10

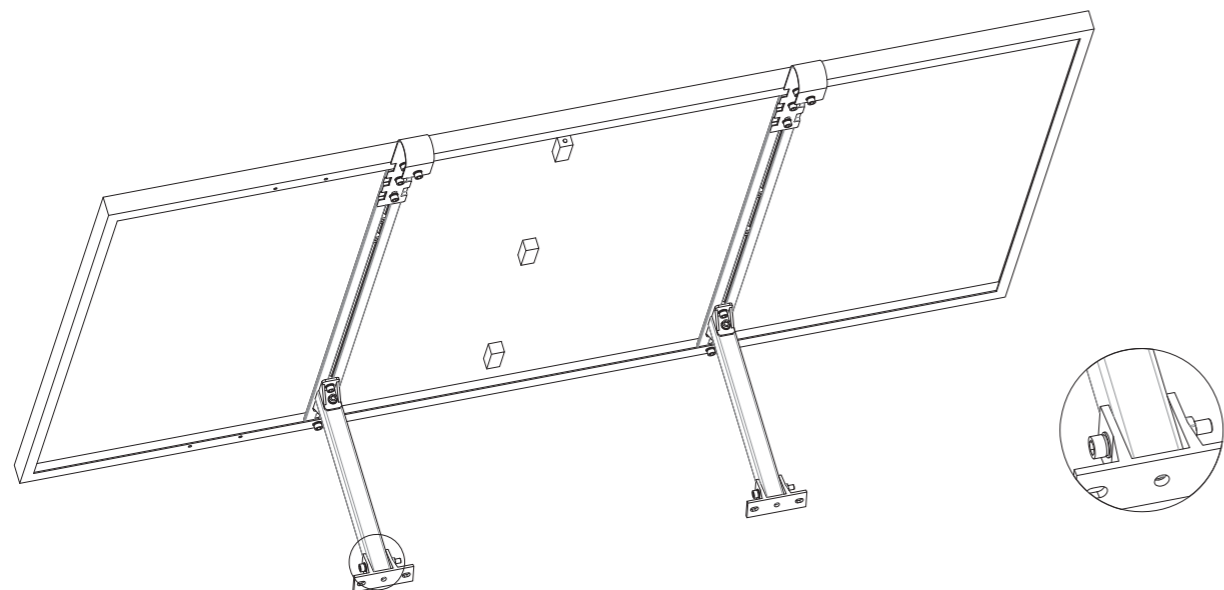
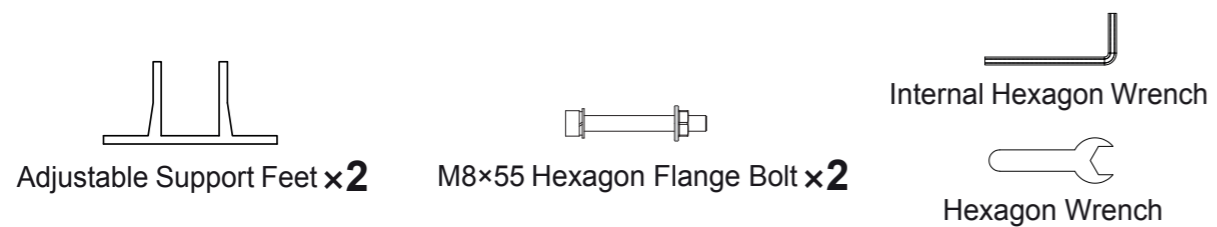


- **Step 2:** Install 2 in the lower position of 1, align the mounting holes on the base with two 12, and secure with 10

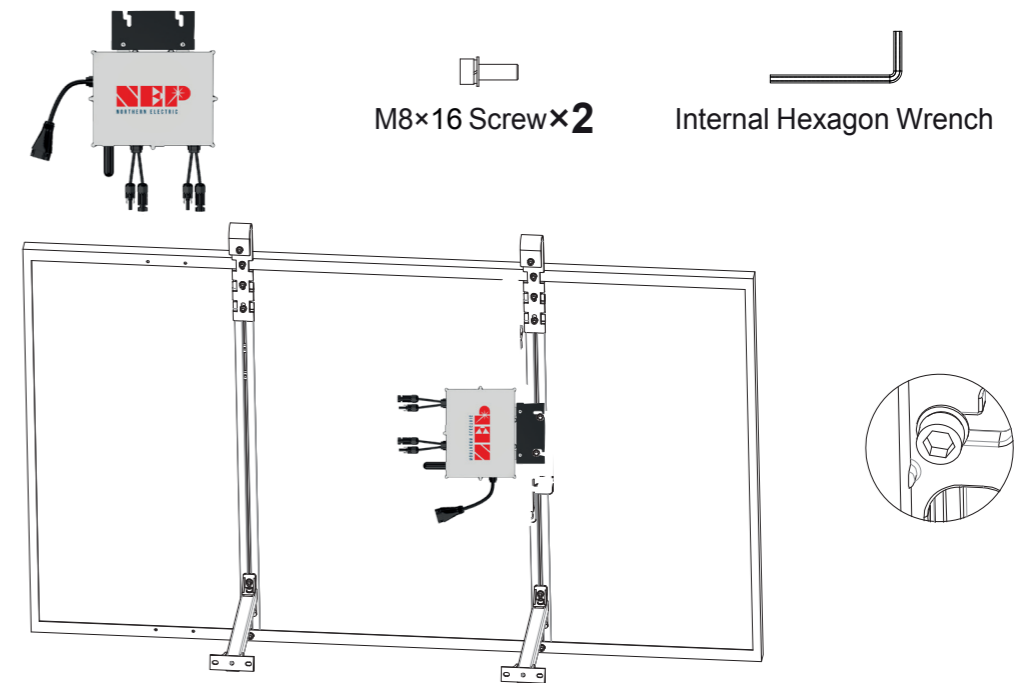




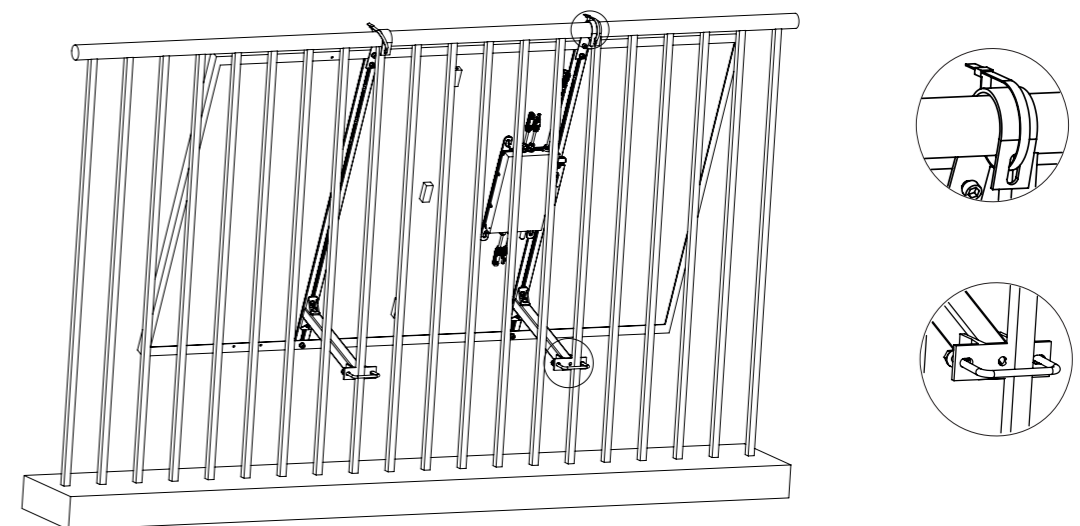
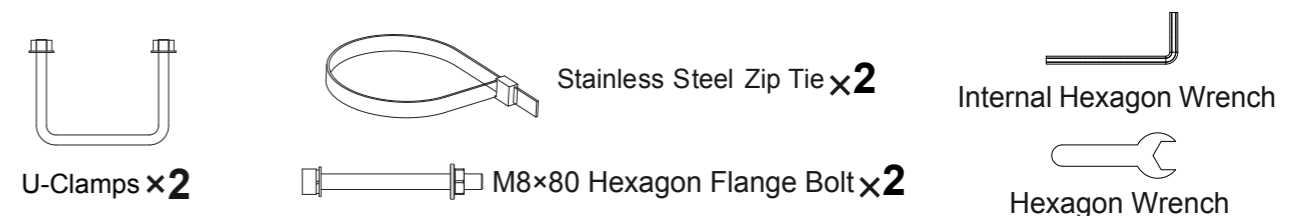
- **Step 3: Place 5 at the top of 2, align the installation holes on both sides of 5 with those on both sides of 2, separate the screws and nuts of 8, insert the screws into the holes, and tighten the nuts from the other side, need use tools 13 and 14**

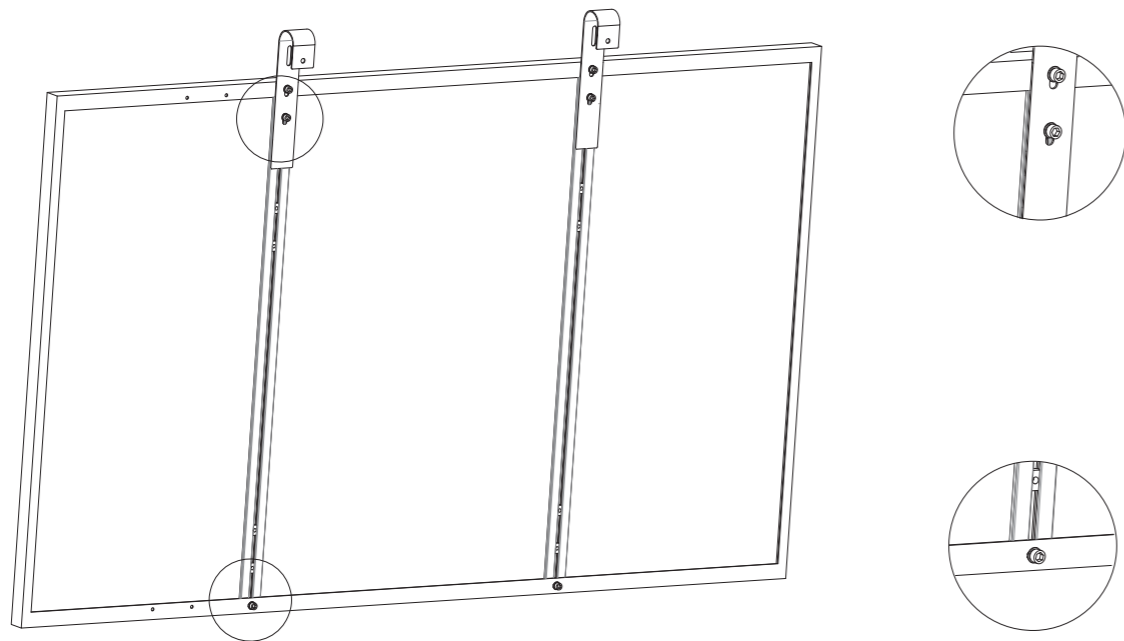


- **Step 4: Install the micro inverter in the direction shown in the schematic diagram, align the two mounting holes with 12, and fix them with 10**

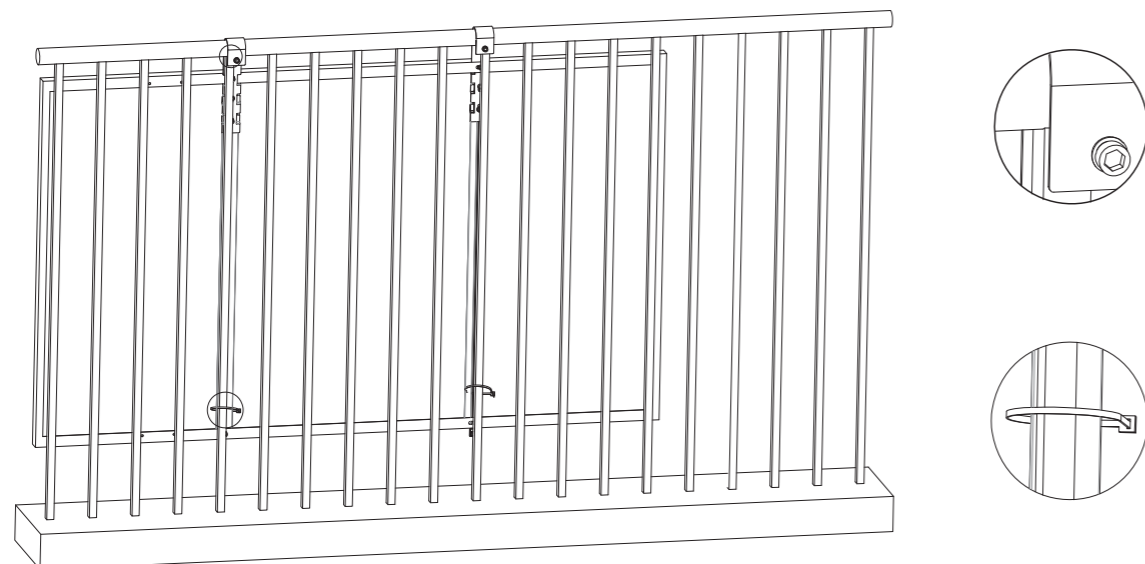
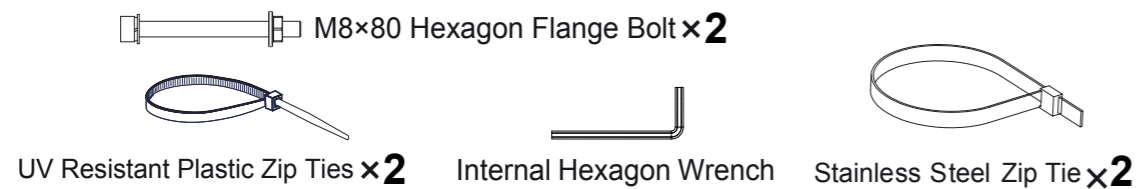


- **Step 5: Two people hang the installed balcony system onto the balcony railing, use two 7 or 19 to fix the 4 to the balcony railing, and then use two 6 to fix the 2 to the balcony railing**

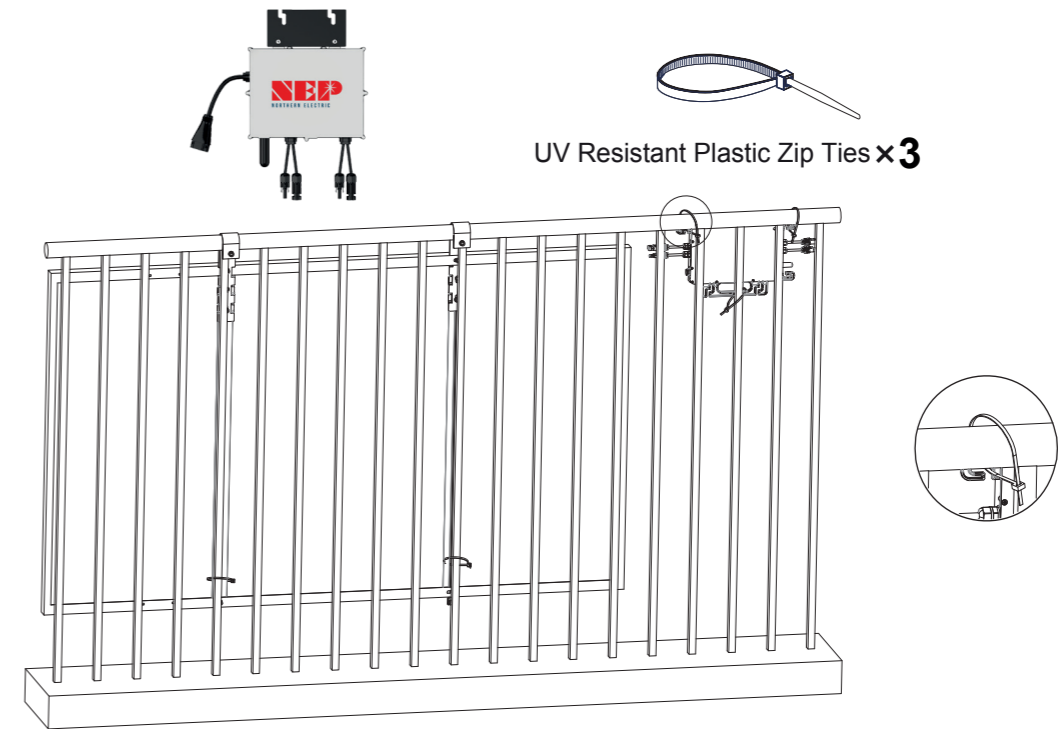




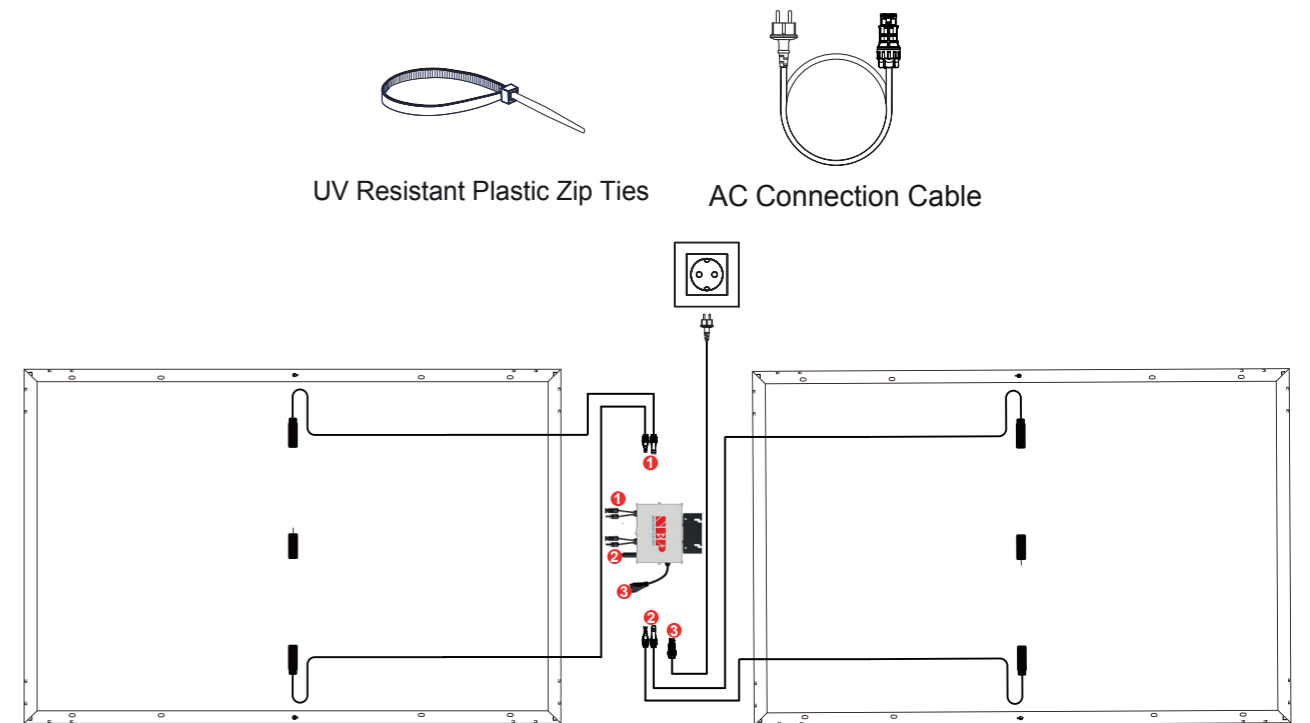
- **Step 2: Two people hang the installed balcony system onto the balcony railing, use two 7 or 19 to fix the 4 to the balcony railing, Then use two 18 to fix the lower part of 1 onto the railing**



- **Step 3: Fix the micro inverter onto the railing using three 18**

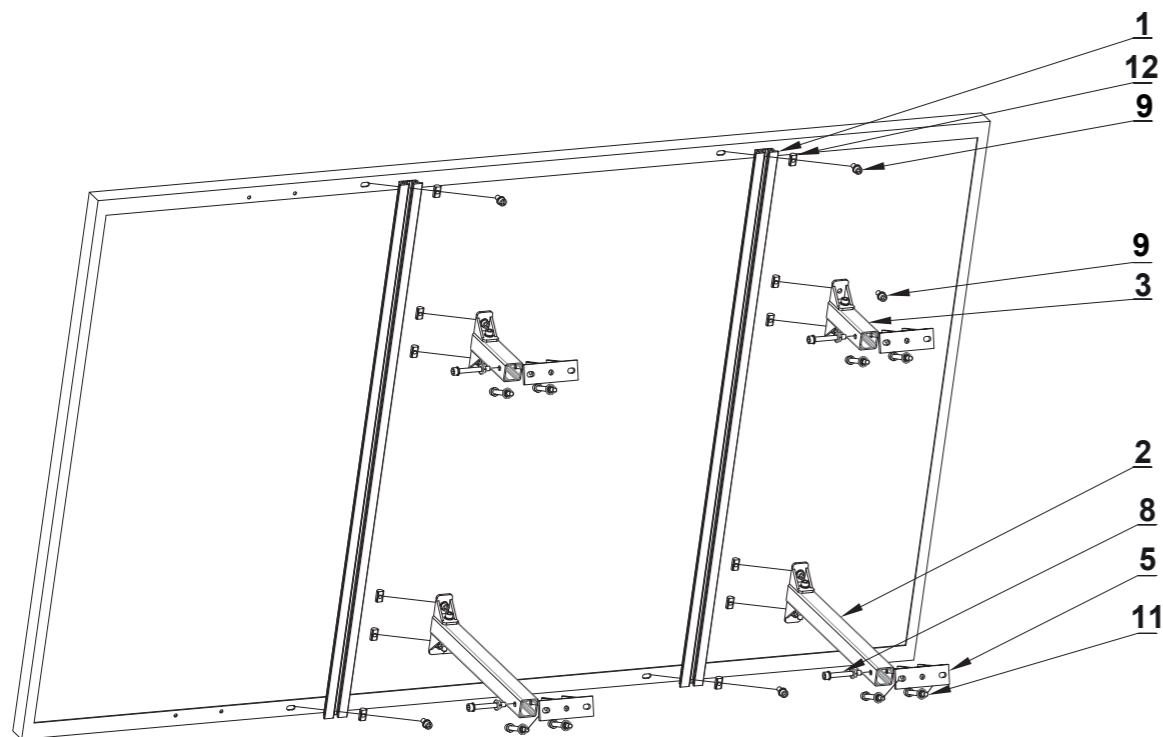


- **Step 4: Connect the cable on the back of the solar panel and 17 to the micro inverter, making sure the connectors are connected correctly, If the cable is too long, 18 can be used for bundling**



The installation steps for the second solar panel are the same. After both solar panels are installed, connect them according to the schematic diagram above

3. Wall Installation



Explosion Diagram Of Bracket

- **Step 1: First, place 1 on the inner side of the back frame of the solar panel align 12 with the installation holes on the frame and fix them with 9**

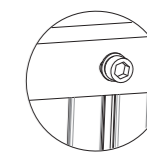
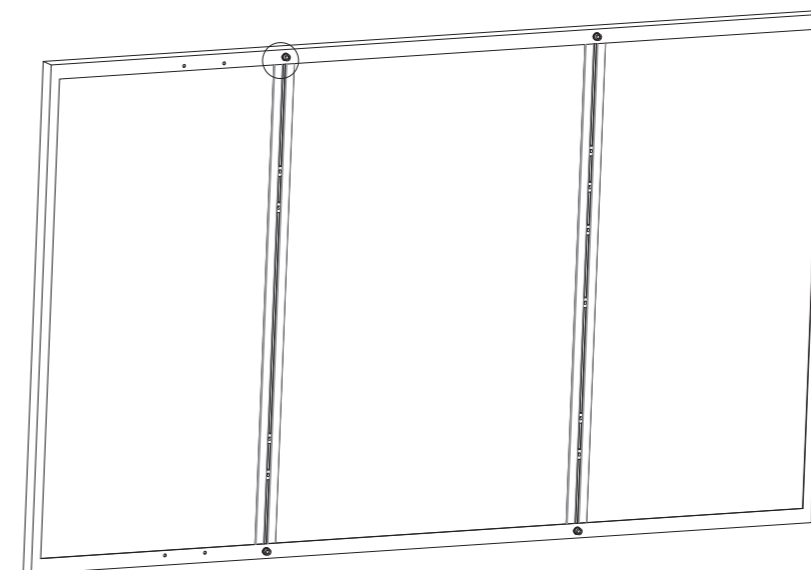


Solar Panel Support Beam × 2

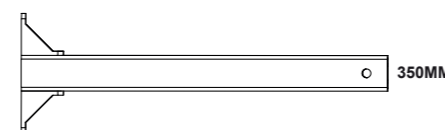


M8×16 Screw × 4

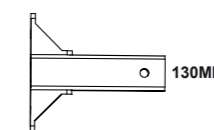
Internal Hexagon Wrench



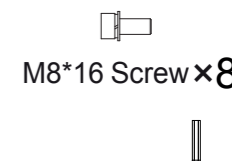
- **Step 2: Install 2 and 3 on 1, with 3 above and 2 below, align the mounting holes on the base with 12, and secure with 10**



Long Vertical Support Bracket × 2

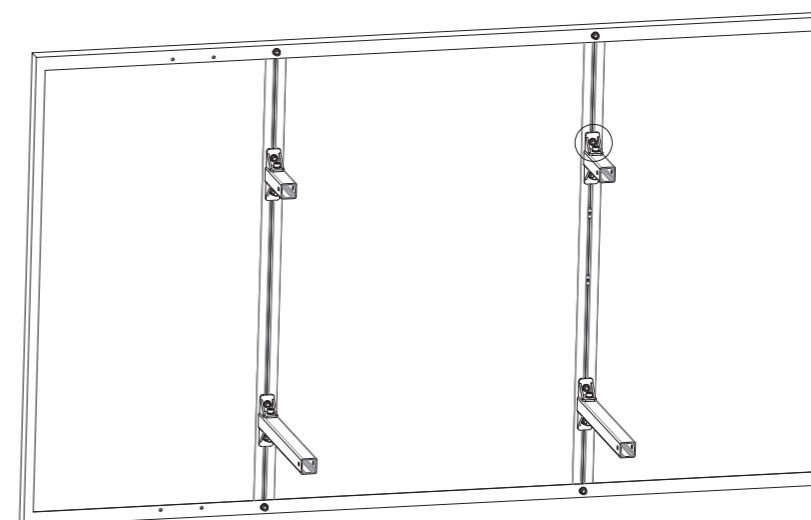


Short Vertical Support Bracket × 2



M8×16 Screw × 8

Internal Hexagon Wrench

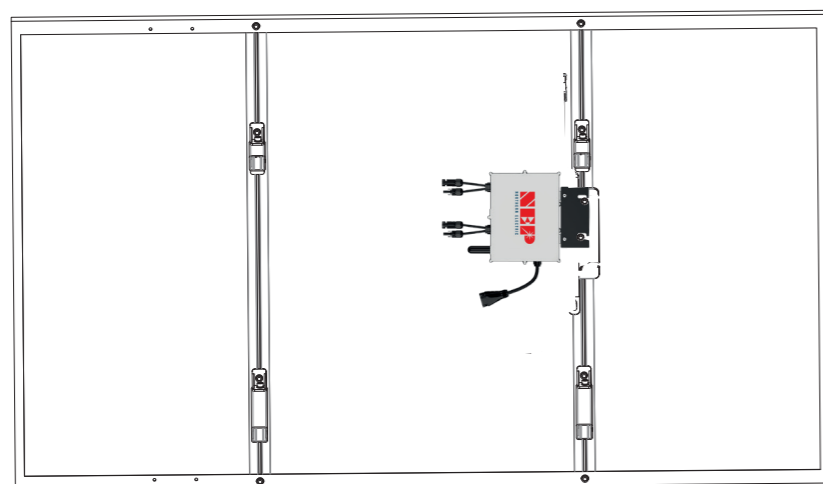


- **Step 3: Install the micro inverter in the direction shown in the schematic diagram, align the two mounting holes with 12, and fix them with 9**



M8×16 Screw ×2

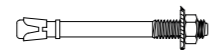
Internal Hexagon Wrench



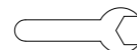
- **Step 4: Before installing 5 on the wall, please confirm the size of the the distance A between the side fixing holes of 2 and 3 should be consistent with the distance B between the side fixing holes of 5 on the wall, the distance C between the outer edges of two 2 or two 3 should be consistent with the distance D between the outer edges of the installation slots of the 5 on the wall After confirming the distance, place the four 5 in the correct positionson the wall, mark the installation hole positions with a marker pen,then drill holes and insert 11. Align the installation holes on the base of 5 with 11, and fix them with nuts and a hexagon wrench**



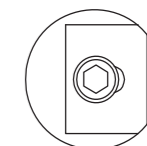
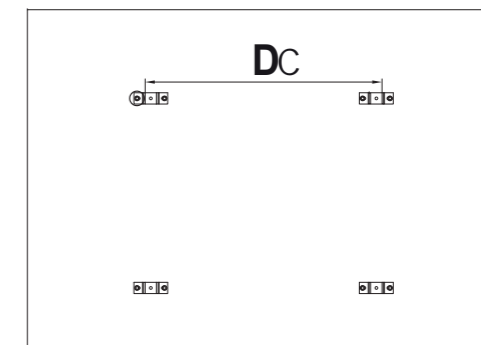
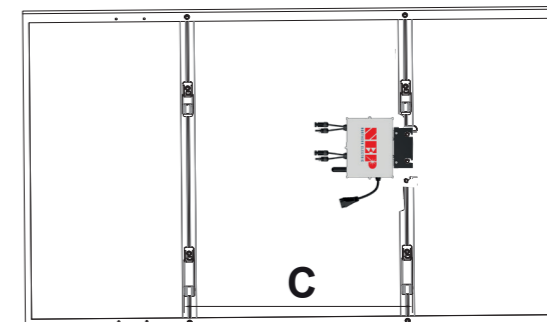
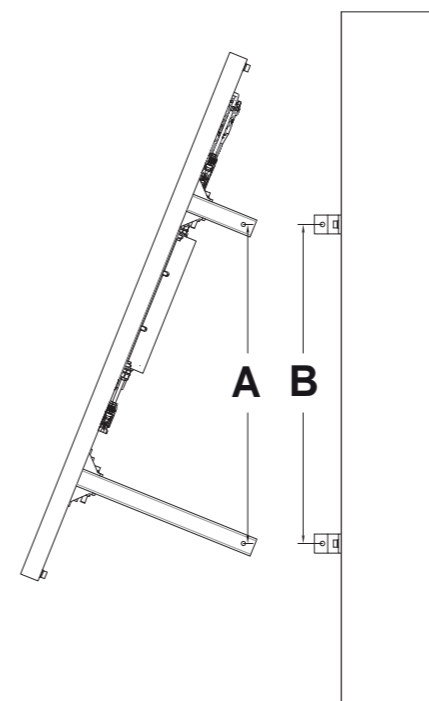
Adjustable Support Feet ×4



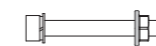
M8 Expansion Screw ×8



Hexagon Wrench



- **Step 5: Two people lift the balcony system to the installation position on the wall, insert 2 and 3 into the installation slot of 5, align the installation holes, separate the screws and nuts of 8, insert the screws into the installation holes, and fix the other side with nuts Use tools 13 and 14 to tighten the screws and nuts**



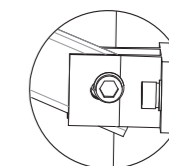
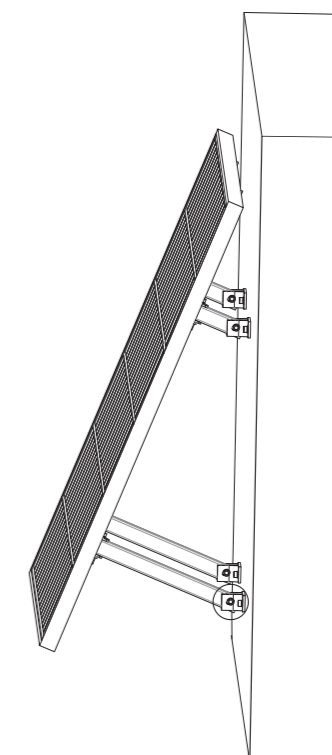
M8×55 Hexagon Flange Bolt ×4



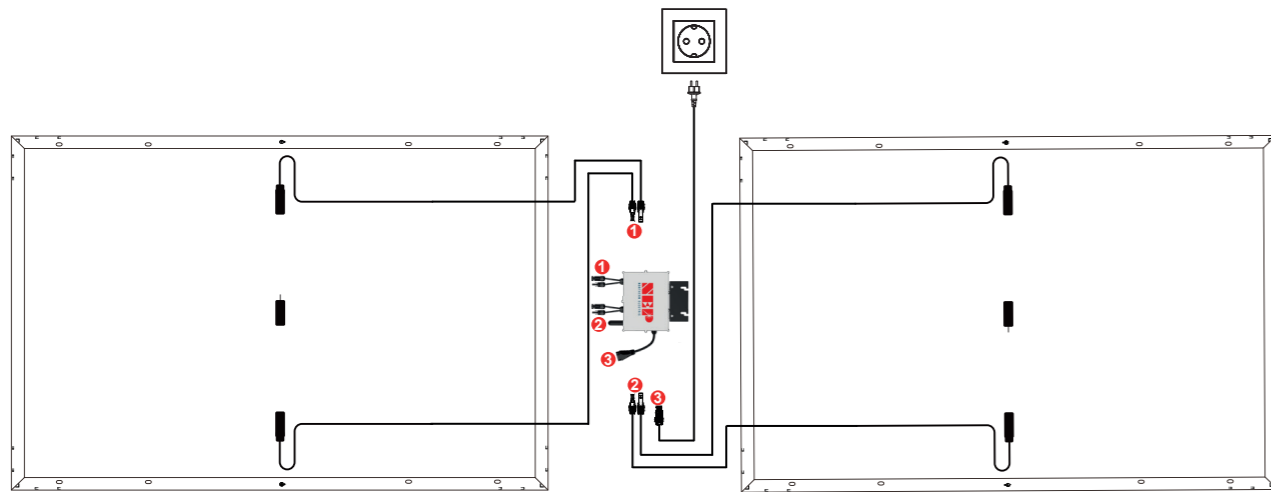
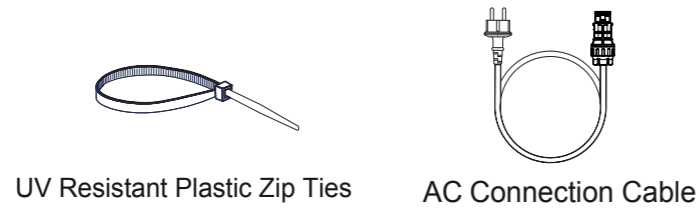
Internal Hexagon Wrench



Hexagon Wrench

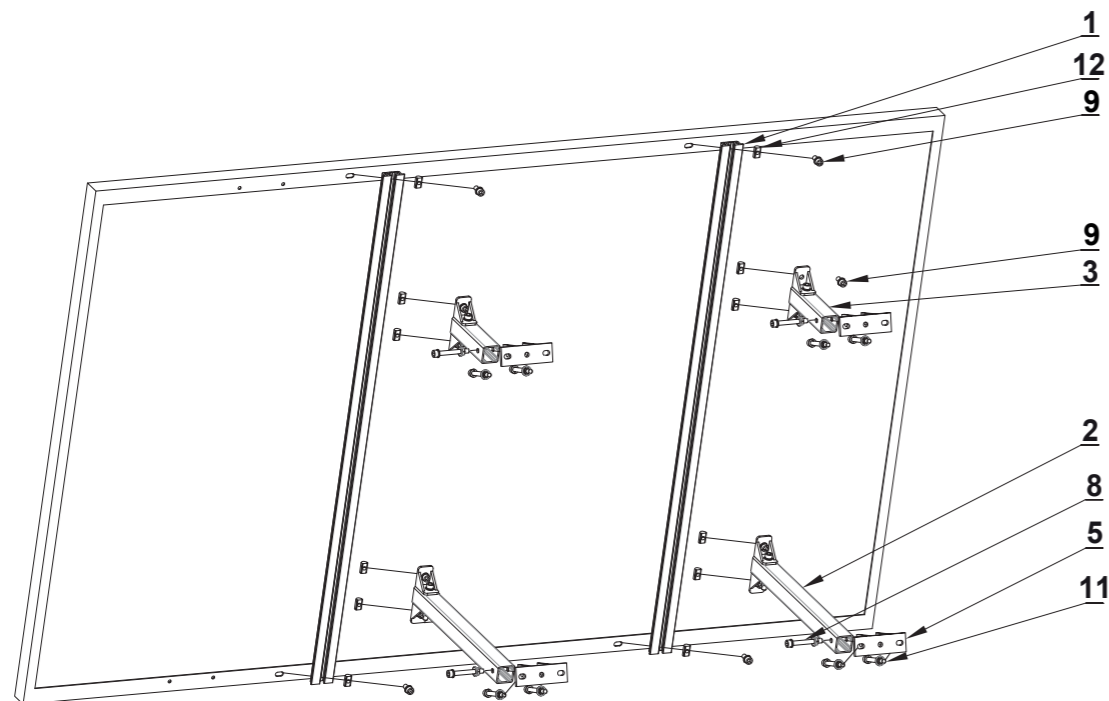


- **Step 6: Connect the cable on the back of the solar panel and 17 to the micro inverter, making sure the connectors are connected correctly, If the cable is too long, 18 can be used for bundling**



The installation steps for the second solar panel are the same. After both solar panels are installed, connect them according to the schematic diagram above

4. Ground Installation

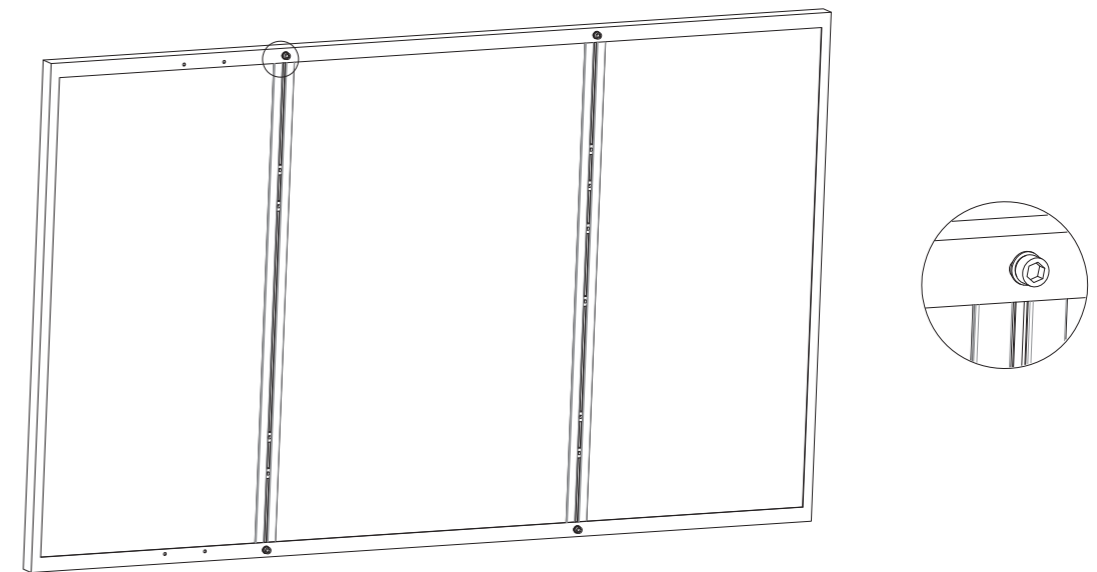


Explosion Diagram Of Bracket

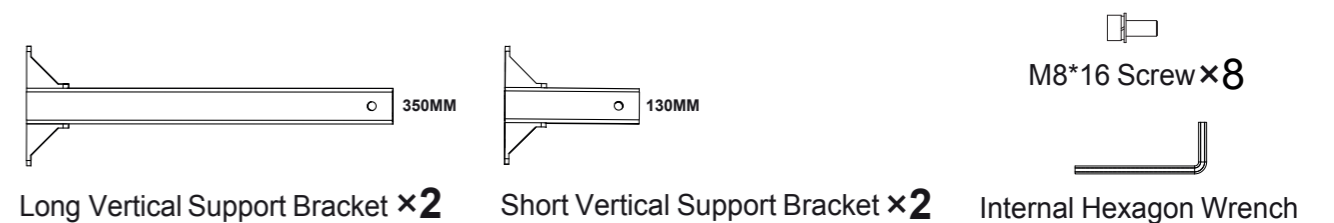
- **Step 1: First, place 1 on the inner side of the back frame of the solar panel align 12 with the installation holes on the frame and fix them with 9**

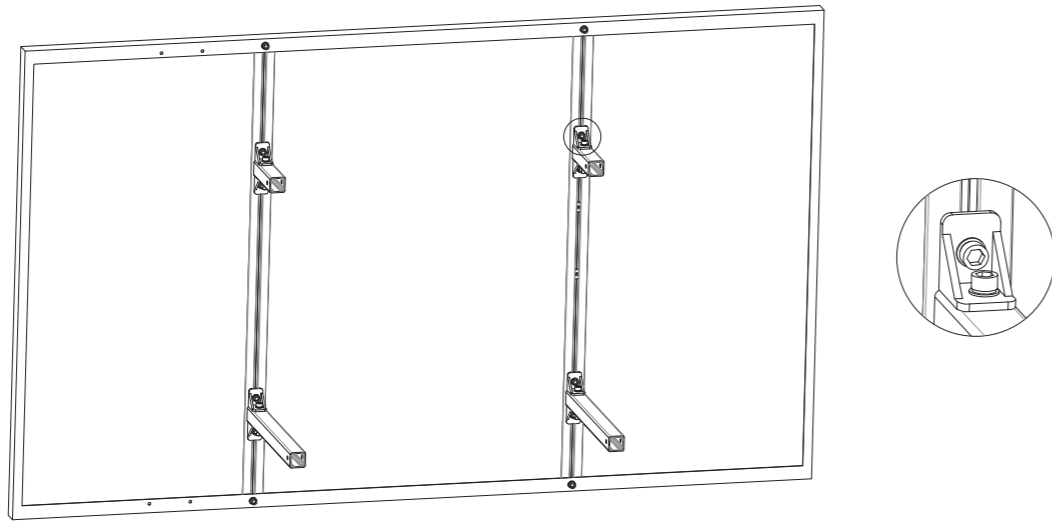


Solar Panel Support Beam ×2

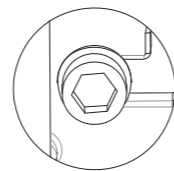
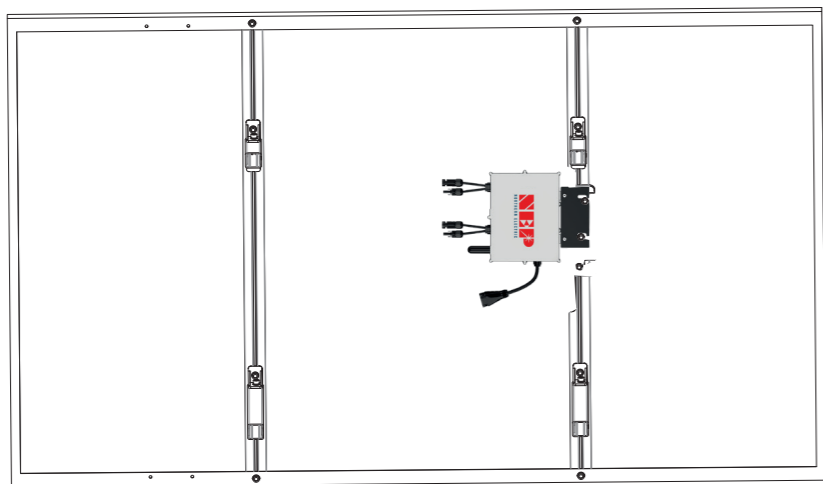
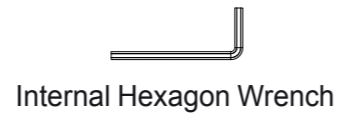
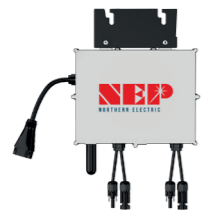


- **Step 2: Install 2 and 3 on 1, with 3 above and 2 below, align the mounting holes on the base with 12, and secure with 10**





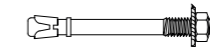
- **Step 3:** Install the micro inverter in the direction shown in the schematic diagram, align the two mounting holes with 12, and fix them with 9



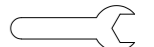
- **Step 4:** Before installing 5 on the wall, please confirm the size of the the distance A between the side fixing holes of 2 and 3 should be consistent with the distance B between the side fixing holes of 5 on the wall, the distance C between the outer edges of two 2 or two 3 should be consistent with the distance D between the outer edges of the installation slots of the 5 on the wall After confirming the distance, place the four 5 in the correct positionson the wall, mark the installation hole positions with a marker pen,then drill holes and insert 11. Align the installation holes on the base of 5 with 11, and fix them with nuts and a hexagon wrench



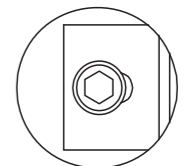
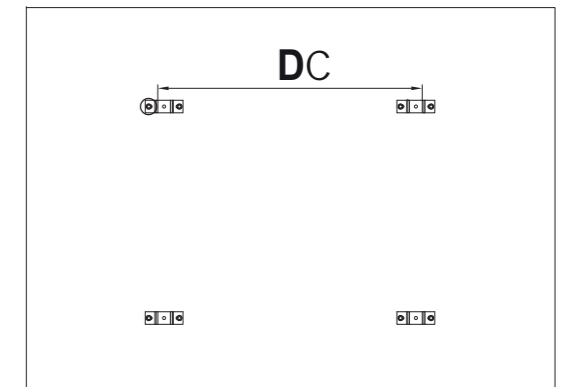
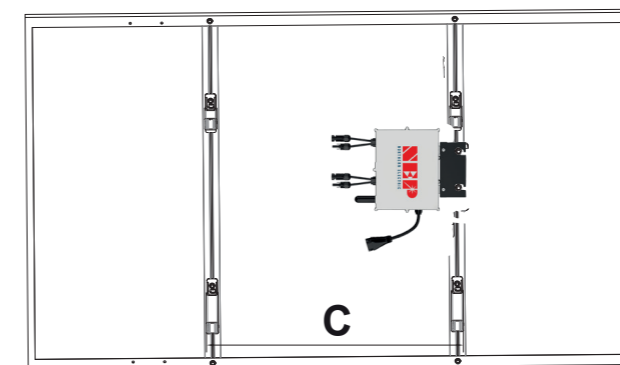
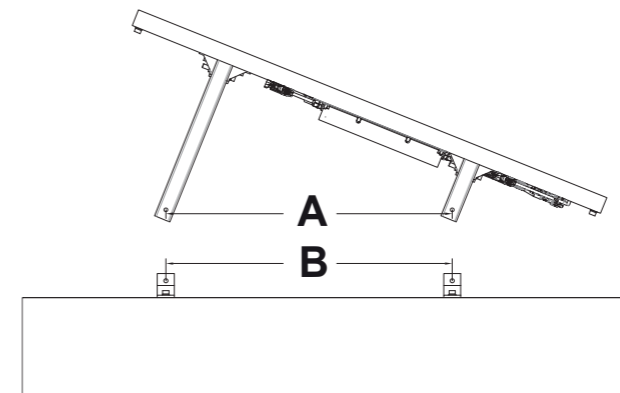
Adjustable Support Feet ×4



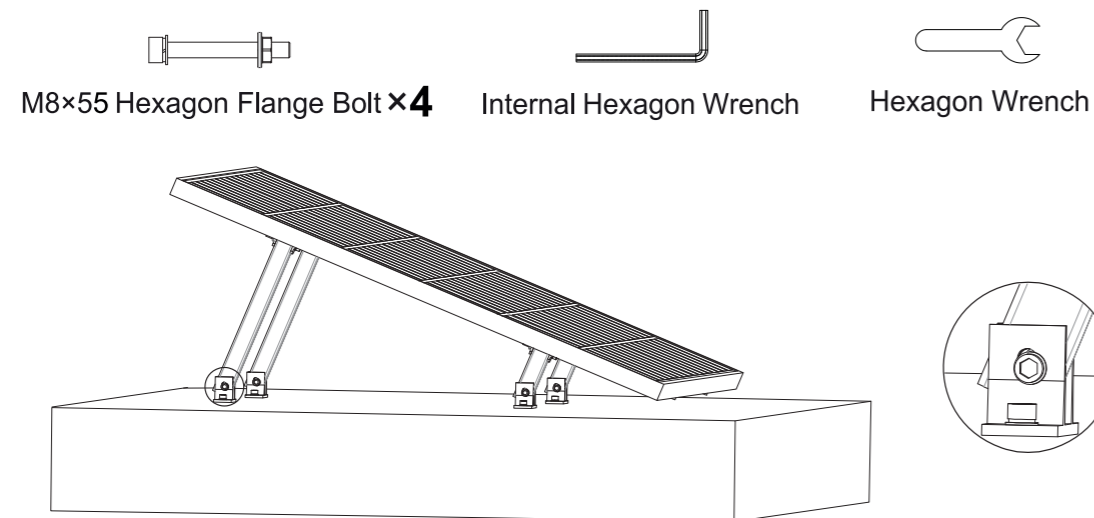
M8 Expansion Screw ×8



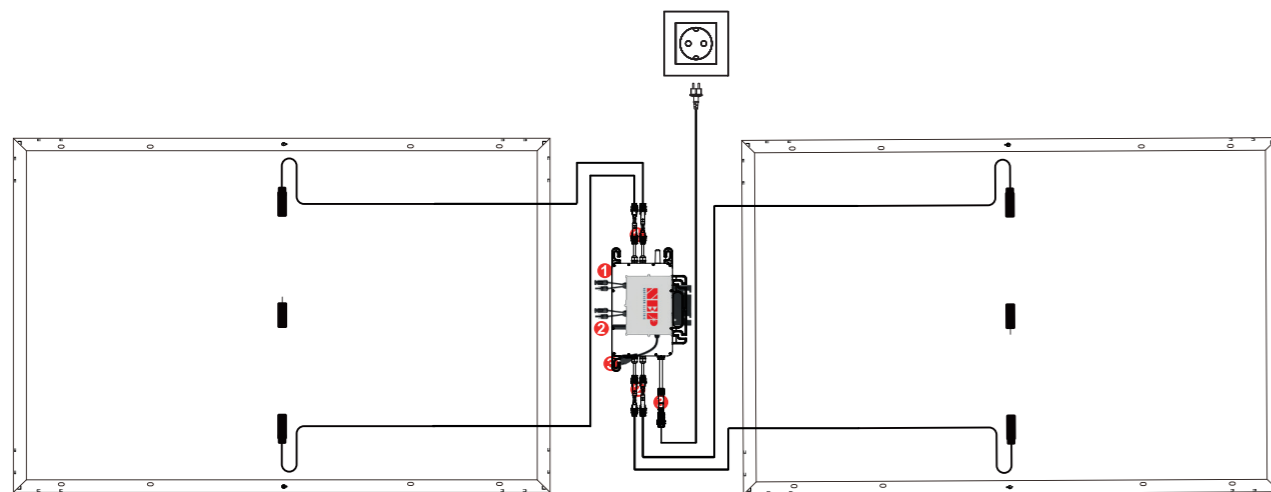
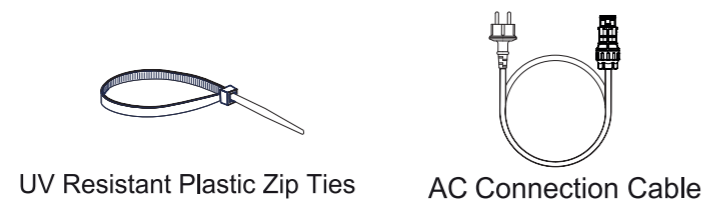
Hexagon Wrench



- **Step 5: Two people lift the balcony system to the installation position on the ground, insert 2 and 3 into the installation slot of 5, align the installation holes, separate the screws and nuts of 8 insert the screws into the installation holes, and fix the other side with nuts, use tools 13 and 14 to tighten the screws and nuts**



- **Step 6: Connect the cable on the back of the solar panel and 17 to the micro inverter, making sure the connectors are connected correctly, If the cable is too long, 18 can be used for bundling**



The installation steps for the second solar panel are the same. After both solar panels are installed, connect them according to the schematic diagram above

NEPViewer APP Quick Installation Guide

Obtain NEPViewer App

Available on the App Store | Get it on Google Play

Search for NEPViewer in App Store or Google Play

* Android users can visit user.nepviewer.com for latest version APK file

Open NEPViewer

Add inverter to NEPViewer

Login or Register

NEP
NORTHERN ELECTRIC

Email

Password

[Create New Account](#) [Reset Password](#)

Sign in

Email

Password

Confirm Password

Name

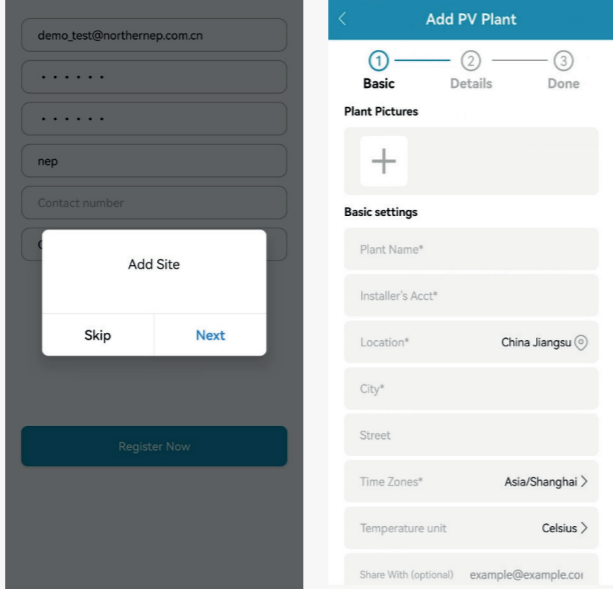
Contact number

Country/Region

Register Now

Add inverter to NEPViewer

Create a new site
Enter the required information

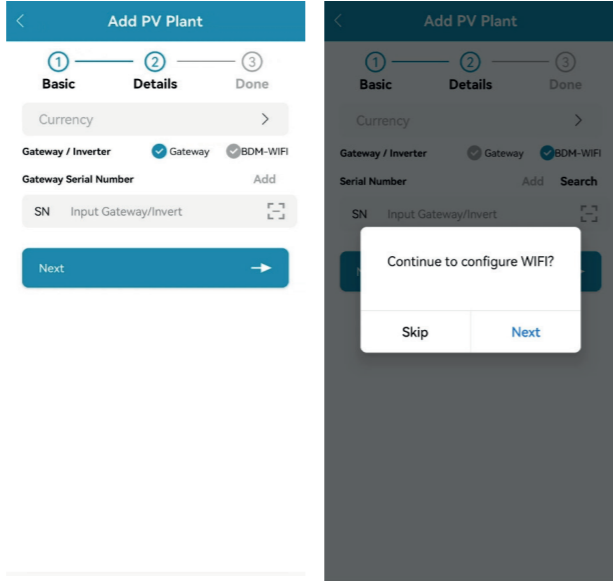


The image shows two parts of the NEPViewer app interface. On the left, a dark-themed 'Add Site' dialog box is displayed over a registration form. The dialog has 'Skip' and 'Next' buttons. On the right, the 'Add PV Plant' screen is shown, which has three steps: 'Basic', 'Details', and 'Done'. The 'Basic' step includes fields for 'Plant Name*', 'Installer's Acct*', 'Location*' (set to 'China Jiangsu'), 'City*', 'Street', 'Time Zones*' (set to 'Asia/Shanghai'), and 'Temperature unit' (set to 'Celsius'). There is also a 'Share With (optional)' field with 'example@example.com'.

If you're using a No-WiFi device (PLC communication), select Gateway, then enter the SN Code and click Next.
If you're using a WiFi device, select BDM-WiFi, then follow the following tutorial for WiFi Configuration.

On label of the inverter, a serial number can be found under the bar code, in form of:
XXXXX-XXXXXXXX-X

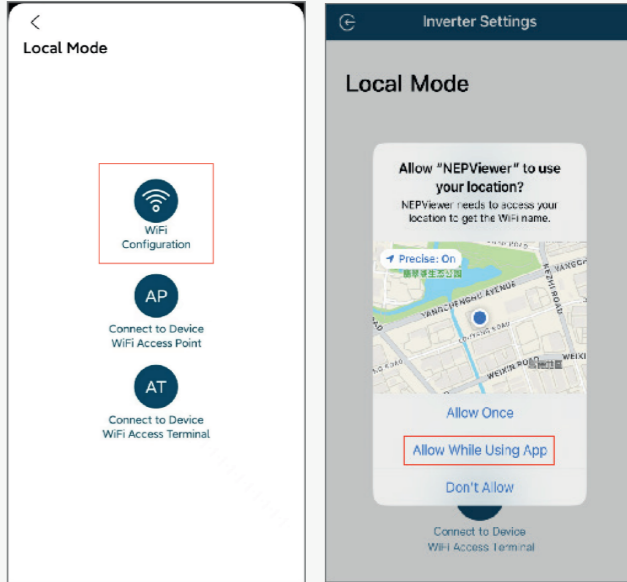
Continue to configure WiFi



The image shows two screenshots of the 'Add PV Plant' app. The left screenshot shows the 'Details' step where 'Gateway / Inverter' is set to 'BDM-WiFi'. Below this, there are fields for 'Gateway Serial Number' and 'SN' with an 'Add' button. A 'Next' button is at the bottom. The right screenshot shows a dialog box asking 'Continue to configure WiFi?' with 'Skip' and 'Next' buttons.

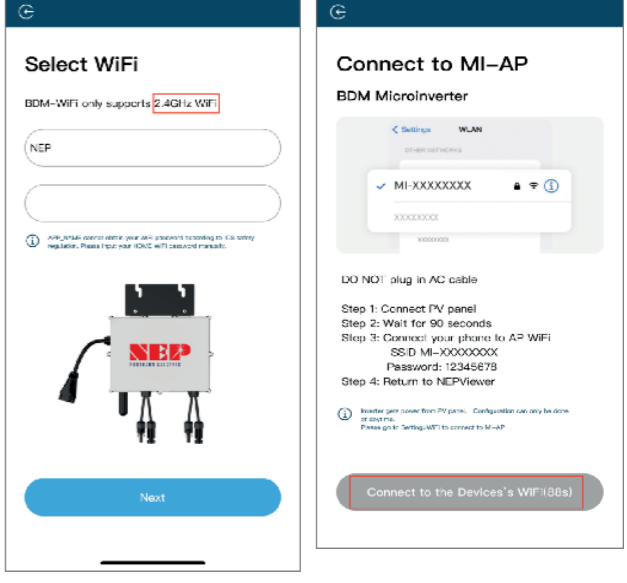
For IOS

For Click **Allow** to obtain geographic location permission (only pops up when installing the app for the first time)IOS



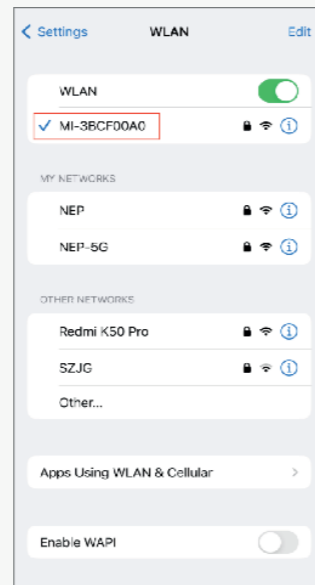
The image shows two screenshots from an iOS device. The left screenshot is the 'Local Mode' screen, which has three options: 'WiFi Configuration' (highlighted with a red box), 'Connect to Device WiFi Access Point' (AP), and 'Connect to Device WiFi Access Terminal' (AT). The right screenshot is the 'Inverter Settings' screen, which shows a location permission dialog box asking 'Allow "NEPViewer" to use your location?'. The dialog includes a map and buttons for 'Allow Once', 'Allow While Using App' (highlighted with a red box), and 'Don't Allow'.

Enter the home WiFi name and password

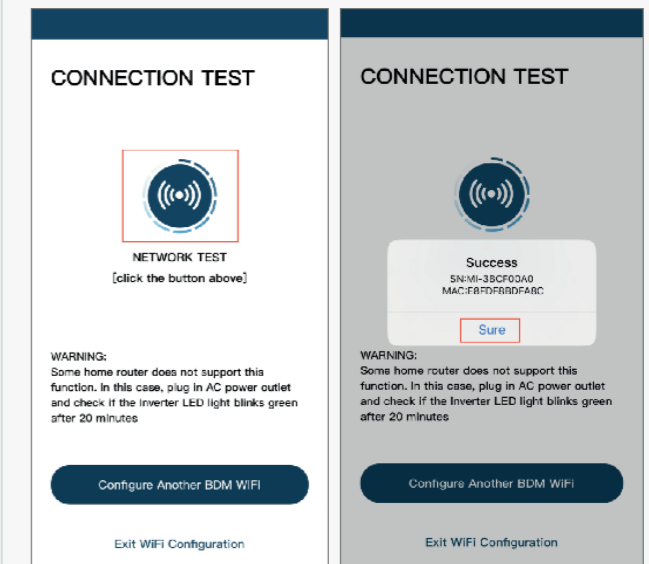


The image shows two screenshots from an iOS device. The left screenshot is the 'Select WiFi' screen, which has a text input field for the WiFi name (containing 'NEP') and a password input field. Below the fields is an image of the NEP inverter and a 'Next' button. The right screenshot is the 'Connect to MI-AP' screen, which shows a list of available WiFi networks. One network, 'MI-XXXXXXXX', is selected. Below the list, there are instructions for connecting to the device's WiFi and a 'Connect to the Device's WiFi (88s)' button.

Connect to the hotspot SSID: MI-XXXXXXX
 Password: 12345678
 Return to NEPViewer app

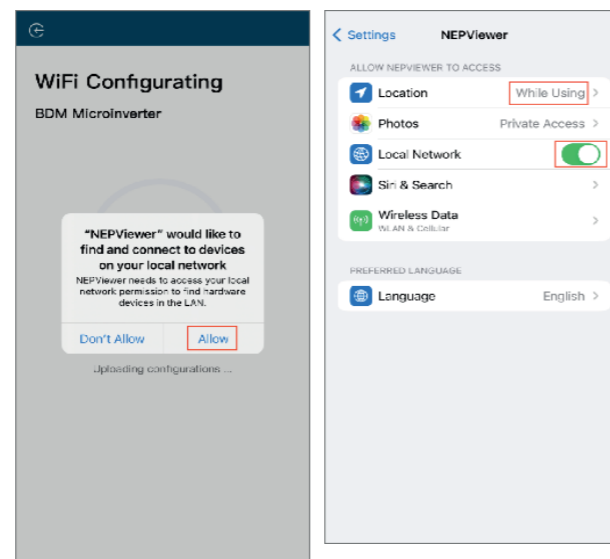


Click the button to check the connectivity

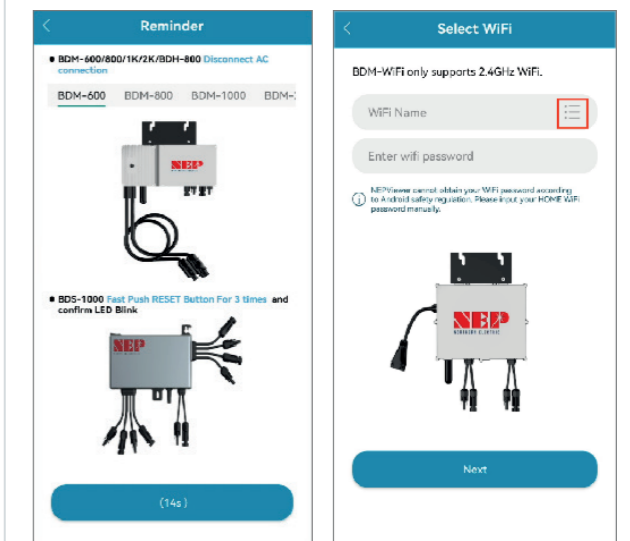


For Android

Allow connection to local network (It will pop up only when the app is installed for the first time)



Enter the home WiFi name and password



Select the device that requires WiFi configuration

It's all set!
Enjoy your PV freedom!

When there is a failed device, the **Retry** button will appear for easy re-networking. Click **TEST** to go to the connectivity test page.

Successful connectivity detection will display the **IP address**.

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