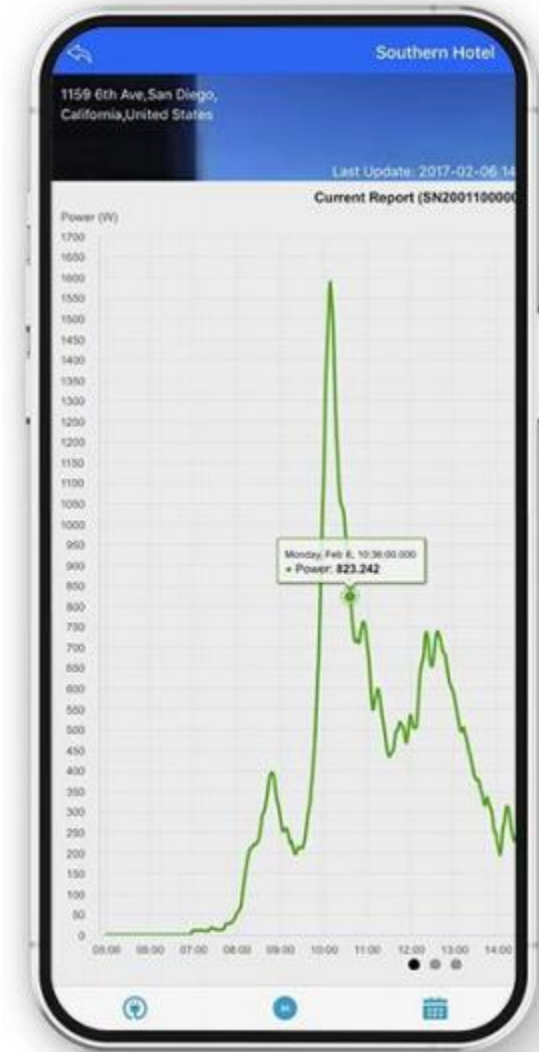


Microinverter APP User Guide

Northern Electric Power Co., Ltd.

Date: 02/2024

Revision: V3.0



1. Account login & registration

1. **Log in** (P3)
2. **Registration** (P4)
3. **Reset password** (P5)

2. Create a site

1. **Enter the site information** (P6)
2. **Add device** (P8-25)
 - 1) **Gateway device** (P8-11)
 - 2) **WiFi device** (P12-25)
 - * **WiFi Configuration** (P21-24)

3. User interface

1. **Site** (P27-28)
2. **Quick tool** (P29-41)
3. **Setting** (P42-49)
 - * **Parameter setting** (P44-49)

Account login & registration -- Log in



- Click 1 to enter the user's email account
- Click 2 to enter the login password
- Click 3 to remember the entered account and password
(After checking this, the account and password will be saved locally if you successfully log in, so you don't need to enter them the next time you log in)
- Click 4 to log in
- Clicking 5 will jump to the password reset page
- Click 6 to jump to the new account registration page

A screenshot of the Northern Electric (NEP) login page. The page features the NEP logo at the top left. Below the logo, the word 'Login' is displayed in a bold, black font, followed by the subtitle 'Securely login to your account'. The form contains several elements: an 'Email address' input field with a red circle '1' next to it; a 'Password' input field with a red circle '2' next to it; a 'Remember me' checkbox with a red circle '3' next to it; a large green 'Log in' button with a red circle '4' next to it; a blue 'Forgot Password' link with a red circle '5' next to it; and a 'Create An Account' link with a red circle '6' next to it. The 'Sign Up' text is part of the 'Create An Account' link.

Account login & registration -- Registration



- Click 1 to enter user name
- Click 2 to enter your email account (login account)
- Click 3 to enter the login password
- Click 4 to enter a phone number (optional)
- Click 5 to select a country and region
- Click 6 to register a new user
- Clicking 7 will jump to the login page

A screenshot of the 'Create An Account' registration form. At the top left is the Northern Electric logo. Below it, the heading 'Create An Account' is followed by the subtext 'Securely Create your account'. The form consists of several input fields, each with a red circle containing a number indicating a click point: 1. 'Full Name' field with a person icon. 2. 'Email address' field with an envelope icon. 3. 'Password' field with a lock icon. 4. 'Enter number' field with a phone icon. 5. 'Country/Region' field with a globe icon. Below these fields is a large green button labeled 'Create Account'. At the bottom, there is a link that says 'I Already Have an Account [Log in](#)'.

NEP
NORTHERN ELECTRIC

Create An Account

Securely Create your account

Full Name 1

Email address 2

Password 3

Enter number 4

Country/Region 5

Create Account 6

I Already Have an Account [Log in](#) 7

Account login & registration -- Reset password

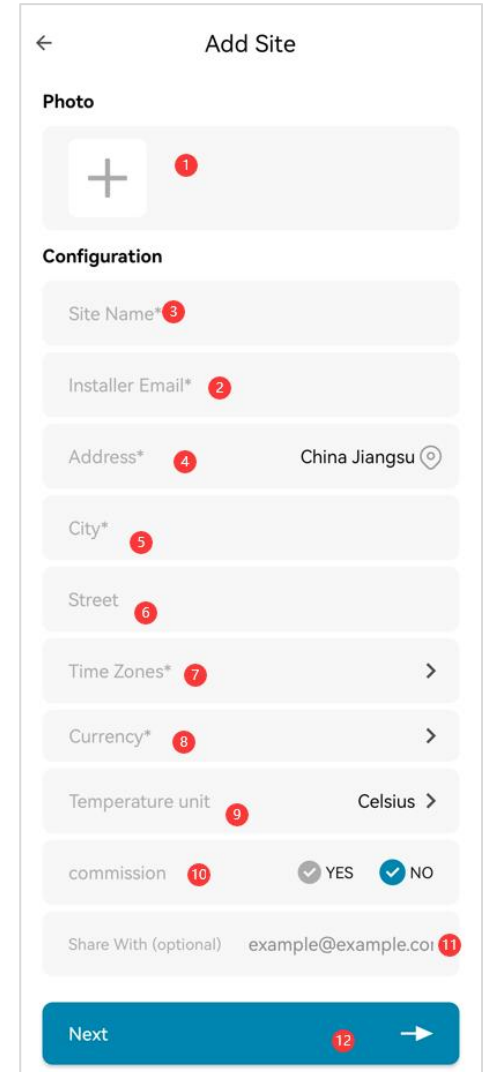


- Click 1 to enter the email address where you want to reset your password
- Click 2 to re-enter the email address where you want to reset the password, making sure the two email addresses are consistent.
- Click 3 to send an email to the entered email address, and then modify the password in the email address.
- Click 4 to jump to the login page

The screenshot shows a web form titled "Retrieve your Account" with the subtext "Securely Retrieve your account". At the top left is the NEP Northern Electric logo. The form contains two input fields, each with an envelope icon and a red circle containing a number: "Email address" (1) and "Confirm Email address" (2). Below these is a large teal "Send" button with a red circle containing the number 3. At the bottom, there is a link "I Already Have an Account [Log in](#)" with a red circle containing the number 4.

Create a site -- Enter the site information

- Click 1 to select the site picture (optional)
- Click 2 to enter the installer/end user email address (required)
 - If the current creator identity is an installer, you need to enter the end user email address
 - If the current creator identity is an end user, you need to enter the installer's email address
- Click 3 to enter the site name (required)
- Click 4 to select the country and region (required)
- Click 5 to enter the city (required)
- Click 6 to enter the street (optional)
- Click 7 to select the time zone (required)
- Click 8 to select the currency (required)
- Click 9 to select the temperature unit (optional)
- Click 10 to select commission (default NO)
- Click 11 to enter the sharing email address (optional)
- The entered email address can also see this site, only view permission
- Click 12 to confirm creating the site



The screenshot shows a mobile application interface for adding a site. The form is titled "Add Site" and includes a back arrow. It is divided into two sections: "Photo" and "Configuration".

- Photo:** A field with a plus sign and a red circle containing the number 1.
- Configuration:**
 - Site Name* 3:** A text input field with a red circle containing the number 3.
 - Installer Email* 2:** A text input field with a red circle containing the number 2.
 - Address* 4:** A text input field with a red circle containing the number 4 and a dropdown menu showing "China Jiangsu" with a location pin icon.
 - City* 5:** A text input field with a red circle containing the number 5.
 - Street 6:** A text input field with a red circle containing the number 6.
 - Time Zones* 7:** A dropdown menu with a red circle containing the number 7 and a right arrow.
 - Currency* 8:** A dropdown menu with a red circle containing the number 8 and a right arrow.
 - Temperature unit 9:** A dropdown menu with a red circle containing the number 9 and "Celsius" selected with a right arrow.
 - commission 10:** A radio button group with "YES" (selected) and "NO" (selected) options, with a red circle containing the number 10.
 - Share With (optional) 11:** A text input field with "example@example.com" and a red circle containing the number 11.

At the bottom, there is a blue "Next" button with a right arrow and a red circle containing the number 12.

Create a site -- Add device

Gateway device (details on P8-11)

- Click 1/2 to switch the device type that needs to be added. The selected style is 1
- Click 3/4 to choose how to enter the serial number
- Click 3 to manually enter the serial number
- Click 4 to scan the barcode to import the serial number
- Click 5 to delete the current serial number
- Click 6 to modify the current serial number
- Area 7 displays the serial number entered via 3/4
- Click 8 to submit data

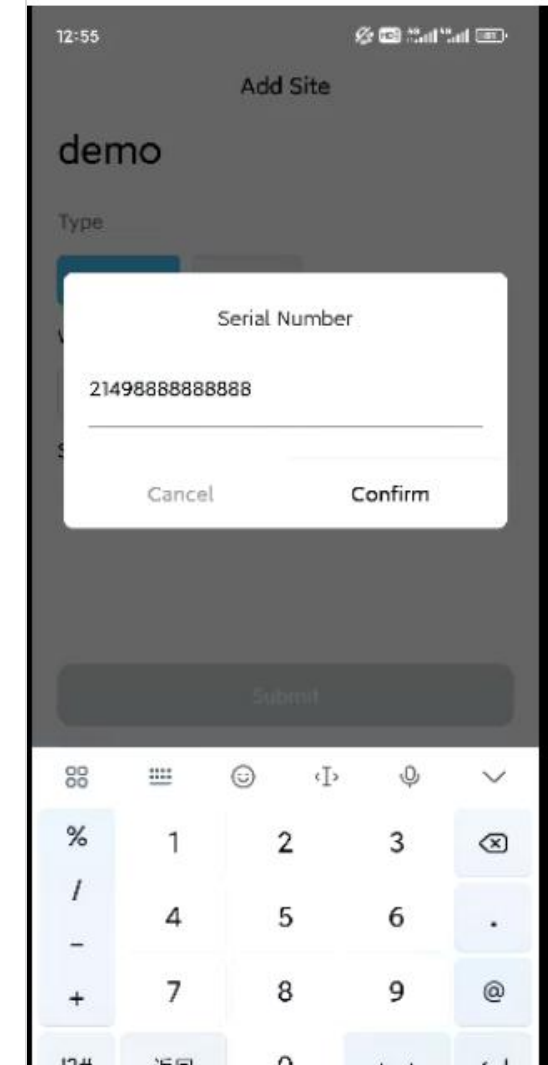
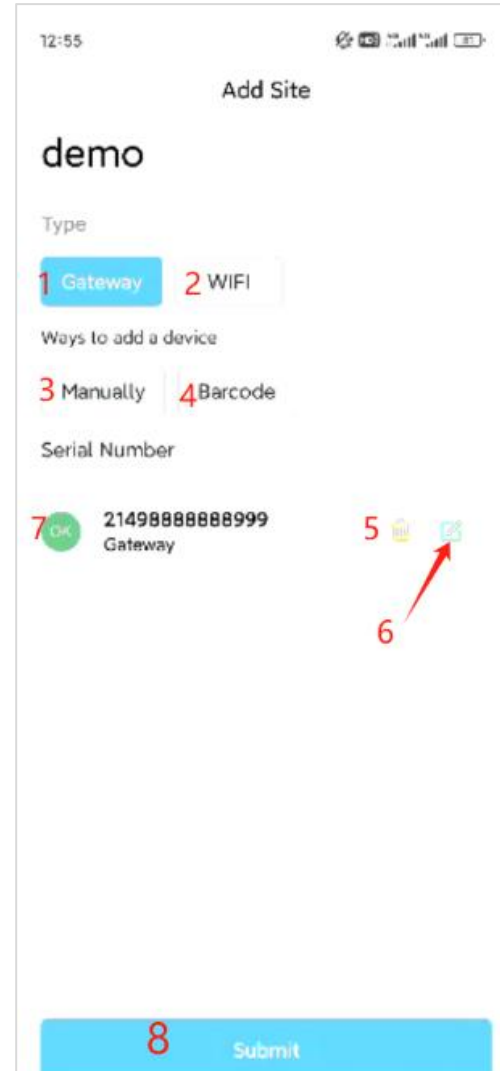


The screenshot shows the 'Add Site' screen in a mobile application. At the top, the time is 12:55 and there are status icons for signal, Wi-Fi, and battery. The title is 'Add Site'. Below that is the site name 'demo'. Under 'Type', there are two buttons: '1 Gateway' (highlighted in blue) and '2 WIFI'. Under 'Ways to add a device', there are two buttons: '3 Manually' (highlighted in blue) and '4 Barcode'. Below that is the 'Serial Number' field, which contains '21498888888999' and is labeled 'Gateway'. To the right of the serial number field, there are two icons: a trash can icon labeled '5' and a pencil icon labeled '6', with a red arrow pointing from '6' to the pencil icon. At the bottom, there is a large blue button labeled '8 Submit'.

Create a site -- Add device

Gateway device (instructions for P7)

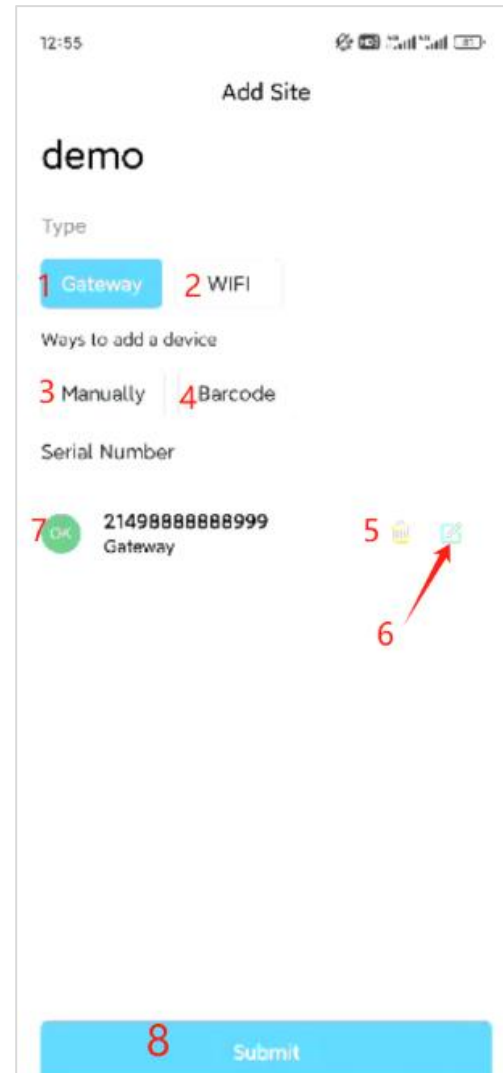
- Click 3 to manually enter the serial number
A pop-up window will appear, enter the 14-digit SN



Create a site -- Add device

Gateway device (instructions for P7)

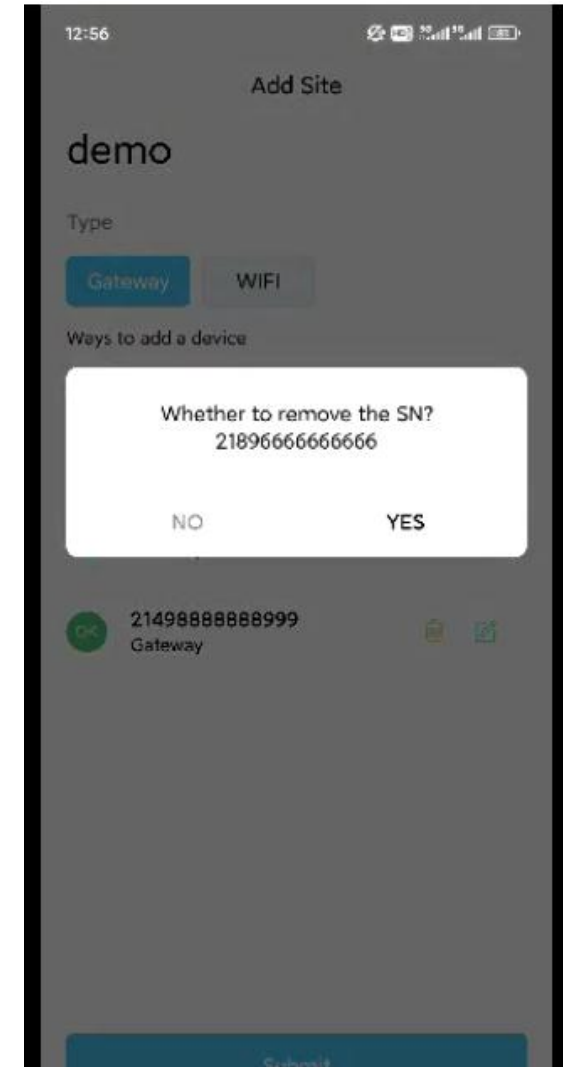
- Click 4 to scan the barcode to import the SN
Different mobile phones have different styles
Just align the middle scanning area with
the corresponding serial number barcode



Create a site -- Add device

Gateway device (instructions for P7)

- Click 5 to delete the current serial number
Clicking yes will delete the current SN



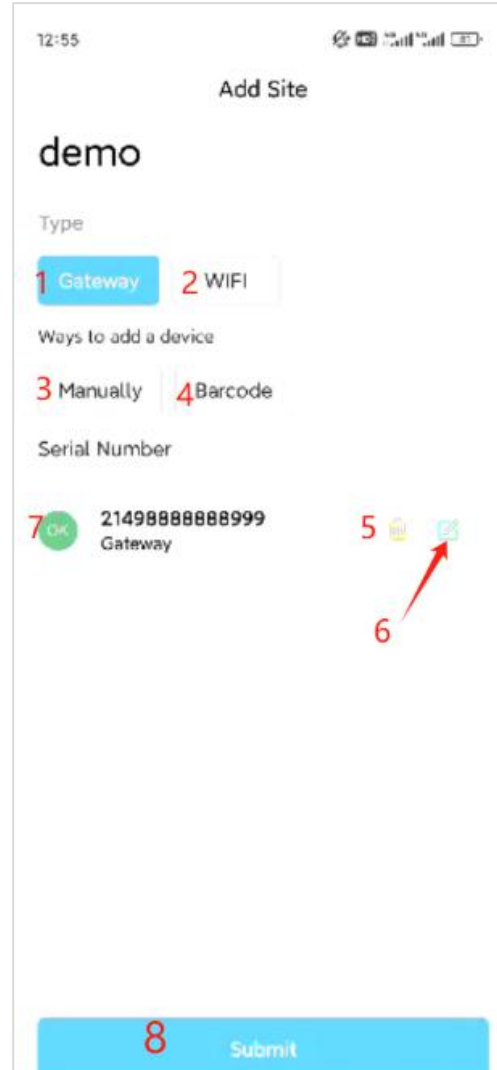
Create a site -- Add device

Gateway device (instructions for P7)

- Area 7 displays the serial number entered via 3/4

Note: There will be 3 states

- OK, means the SN is correct
- Exist, means the SN has been bound by other sites
- Err, means the serial number is wrong



12:55 Add Site

demo

Type

1 Gateway 2 WIFI

Ways to add a device

3 Manually 4 Barcode


Serial Number

7 OK 21498888888999 Gateway

5 6

8 Submit

Detailed description: This is a mobile app screenshot for adding a site. The title is 'Add Site' and the site name is 'demo'. Under 'Type', 'Gateway' is selected. Under 'Ways to add a device', 'Manually' is selected. The 'Serial Number' field contains '21498888888999'. A green circle with 'OK' and the number '7' is next to the serial number. A red arrow points from the number '6' to a trash icon. At the bottom, a blue button labeled '8 Submit' is visible.



12:55 Add Site

demo

Type

1 Gateway 2 WIFI

Ways to add a device

3 Manually 4 Barcode

Serial Number

7 OK 21498888888999 Gateway

5 6

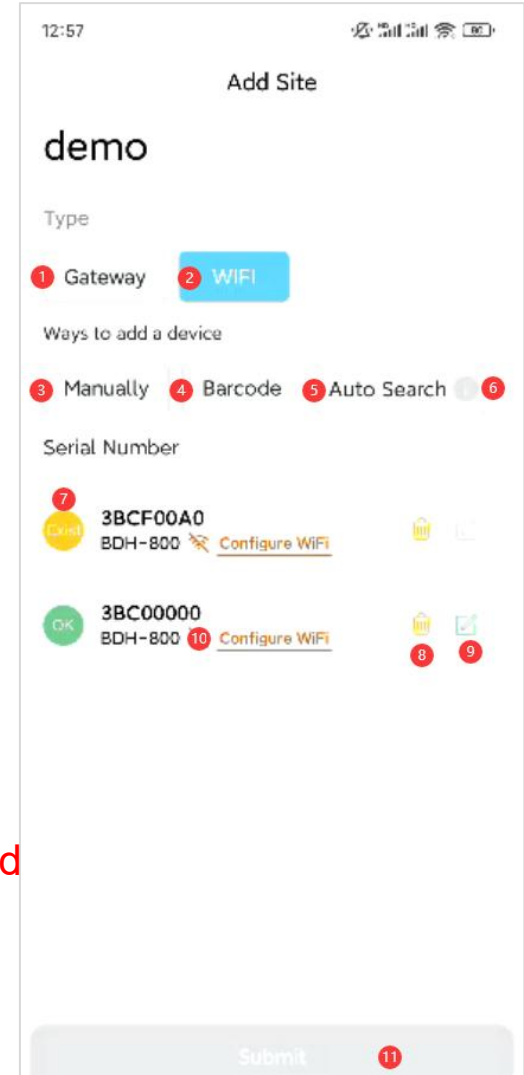
8 Submit

Detailed description: This is a mobile app screenshot for adding a site, identical to the one on the left. A red rectangular box highlights the '7 OK 21498888888999 Gateway' text. A red arrow points from the number '6' to a trash icon. At the bottom, a blue button labeled '8 Submit' is visible.

Create a site -- Add device

WiFi device (details on P13-25)

- Click 1/2 to switch the device type that needs to be added. Select 2
- Click 3/4/5 to choose how to enter the serial number
- Click 3 to manually enter the serial number
- Click 4 to scan the barcode to import the serial number
- **Click 5 to automatically scan nearby devices. You need to ensure that the WiFi switch is turned on on the current phone (IOS does not have this function)**
- Click the small icon to the left of 6 to show how to put the device into WiFi configuration.
- Area 7 displays the serial number entered via 3/4
- Click 8 to delete the current serial number
- **Click 9 to modify the current serial number. Note that the scanned SN cannot be modified**
- Click 10 to configure the network for SN
- Click 11 to submit data

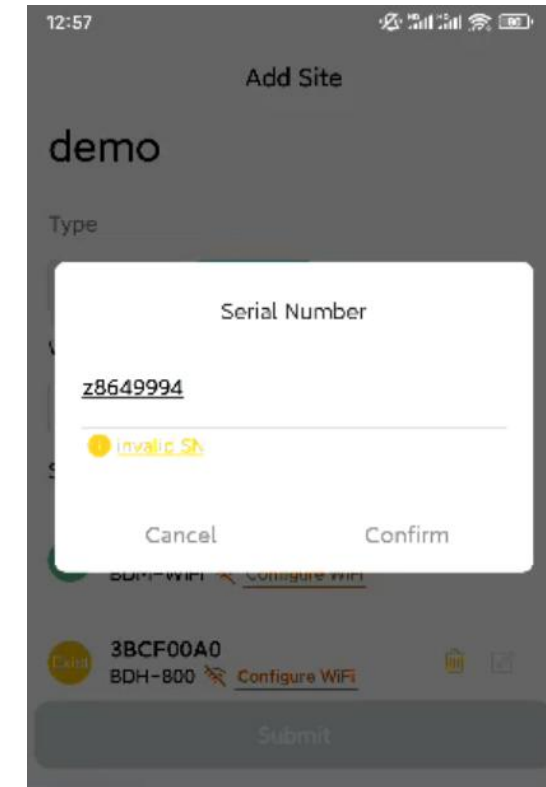
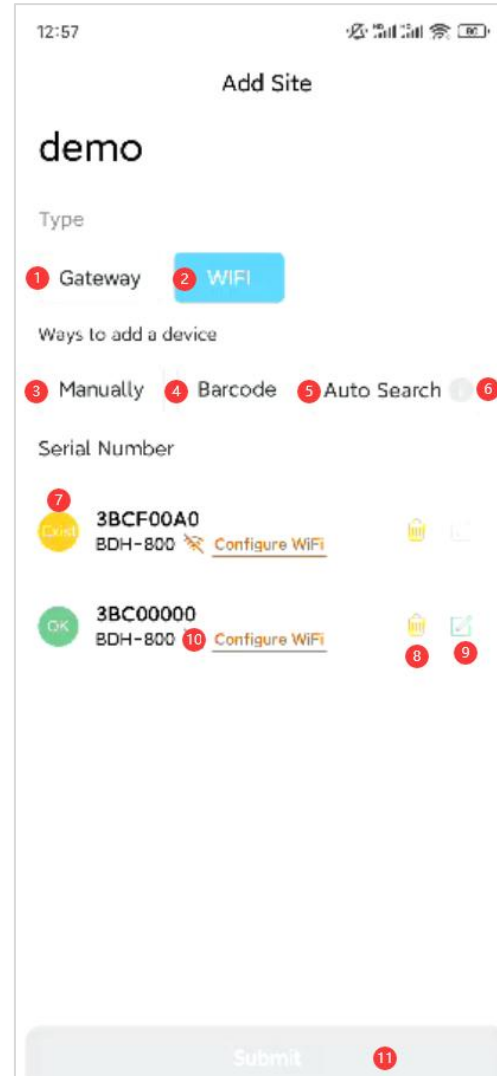


The screenshot shows the 'Add Site' screen in a mobile application. At the top, the time is 12:57 and the title is 'Add Site'. Below the title, the site name 'demo' is displayed. Under the 'Type' section, there are two options: 'Gateway' (labeled 1) and 'WIFI' (labeled 2, which is selected). The 'Ways to add a device' section has four options: 'Manually' (labeled 3), 'Barcode' (labeled 4), 'Auto Search' (labeled 5), and a small icon (labeled 6). The 'Serial Number' section shows two entries: the first is '3BCF00A0 BDH-800' with a yellow 'Unit' icon (labeled 7) and a 'Configure WiFi' link; the second is '3BC00000 BDH-800' with a green 'OK' icon (labeled 8), a 'Configure WiFi' link (labeled 10), and a small icon (labeled 9). At the bottom, there is a 'Submit' button (labeled 11).

Create a site -- Add device

WiFi device (instructions for P12)

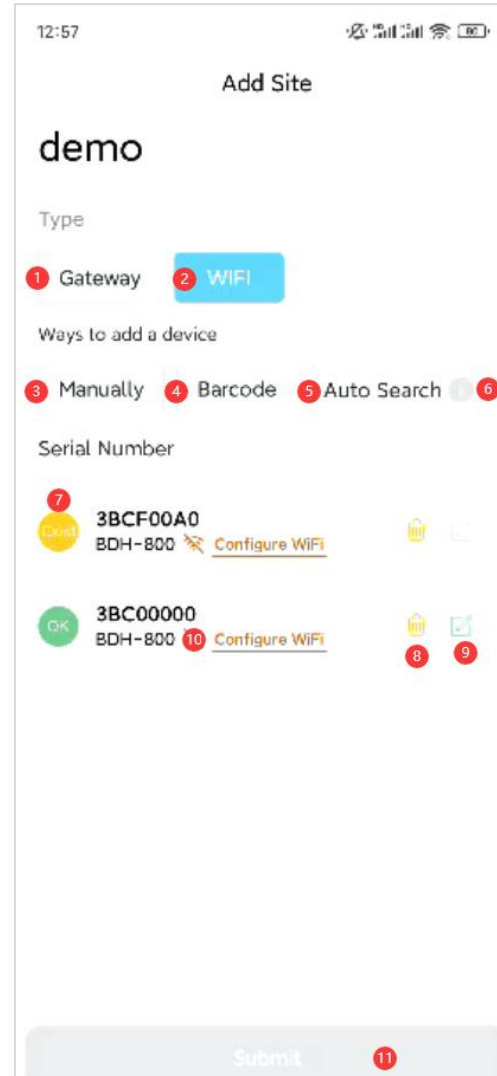
- Click 3 to manually enter the serial number
A pop-up window will appear, enter the 8-digit SN.
The picture on the right shows the wrong SN.



Create a site -- Add device

WiFi device (instructions for P12)

- Click 4 to scan the barcode to import the SN
- Different mobile phones have different styles
- Just align the middle scanning area with the corresponding serial number barcode

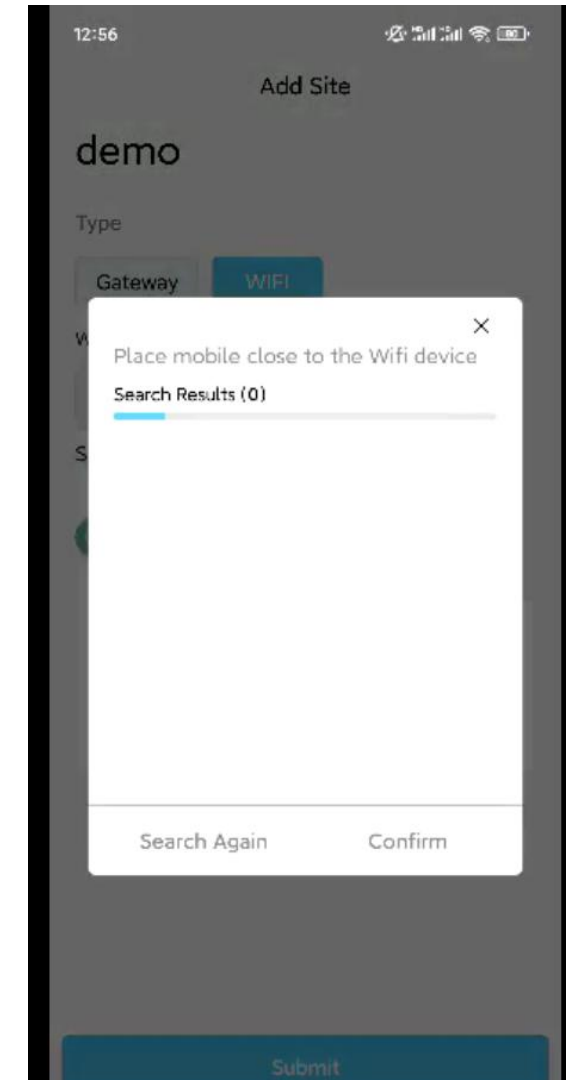
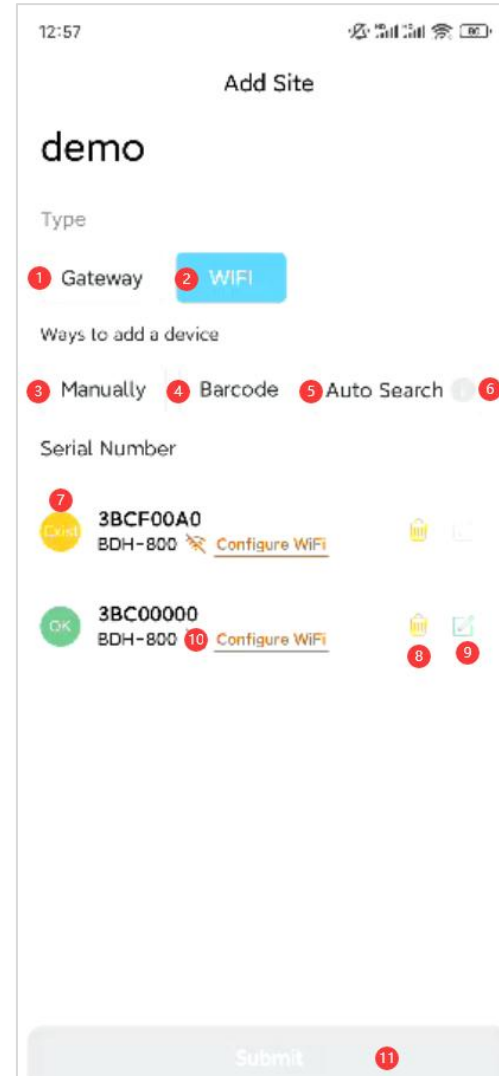


Create a site -- Add device

WiFi device (instructions for P12)

- Click 5 to automatically scan for nearby devices
You need to make sure that the WiFi switch is turned on on your current phone

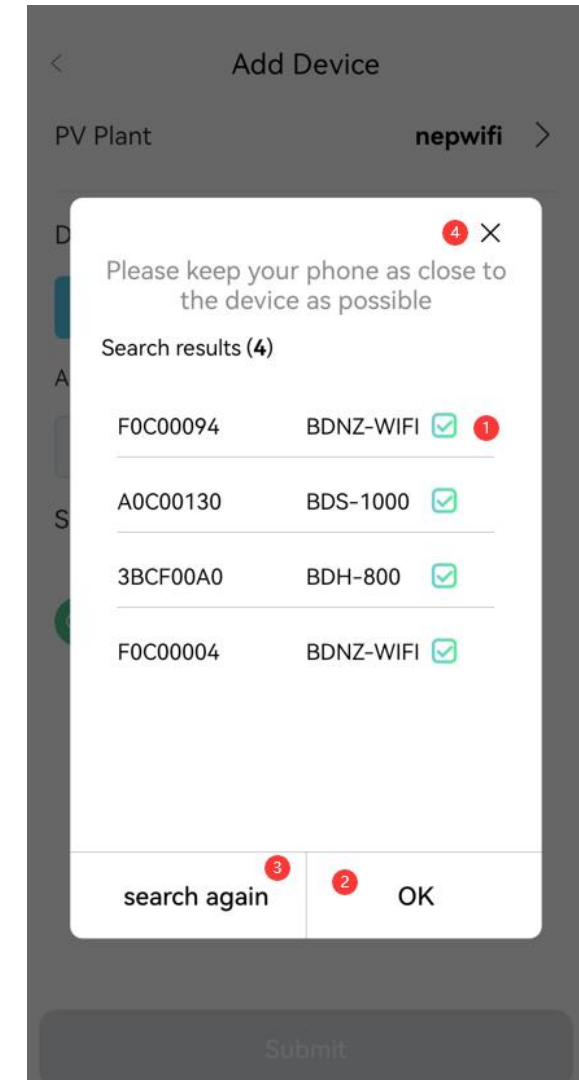
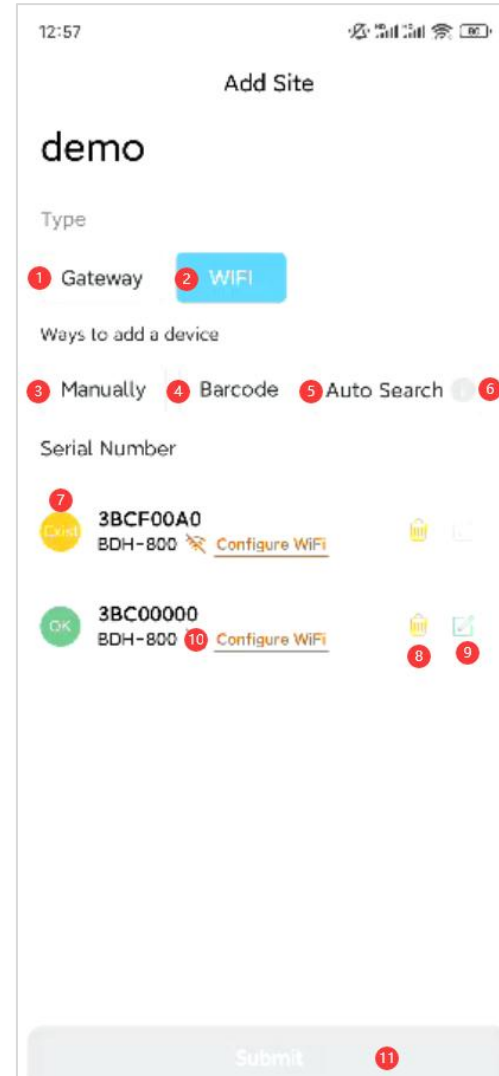
The picture shows the scanning in progress page



Create a site -- Add device

WiFi device (continued from previous page)

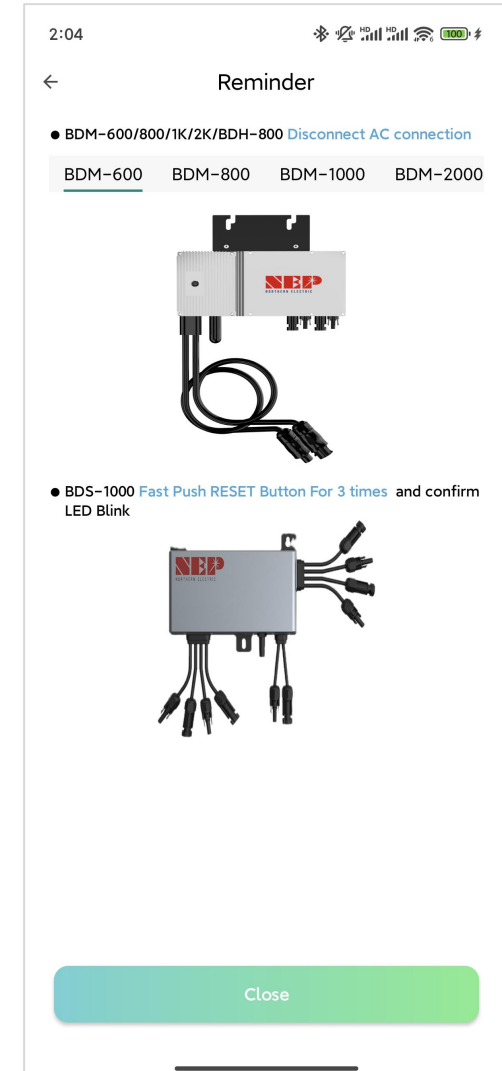
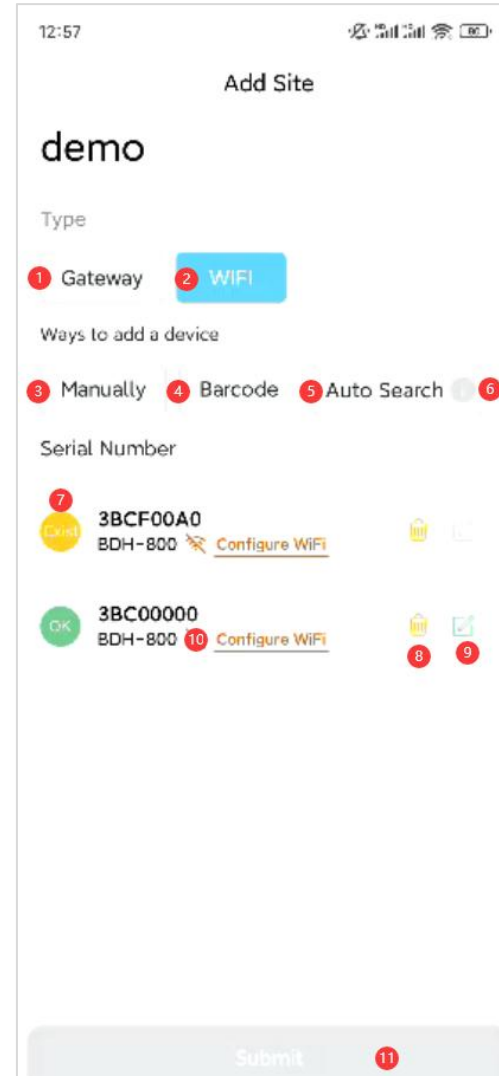
- Automatically scan for nearby devices
- The picture shows the scan results page
- Click 1 to select the SN, and all are selected by default.
 - Click 2 to add the selected SN to the serial number list, and close the pop-up window
 - Click 3 to search again
 - Click 4 to close the page



Create a site -- Add device

WiFi device (instructions for P12)

- Click the small icon to the left of 6 to show how to put the device into the WiFi configuration state
The prompt as shown in the picture is just a simple prompt without any function.



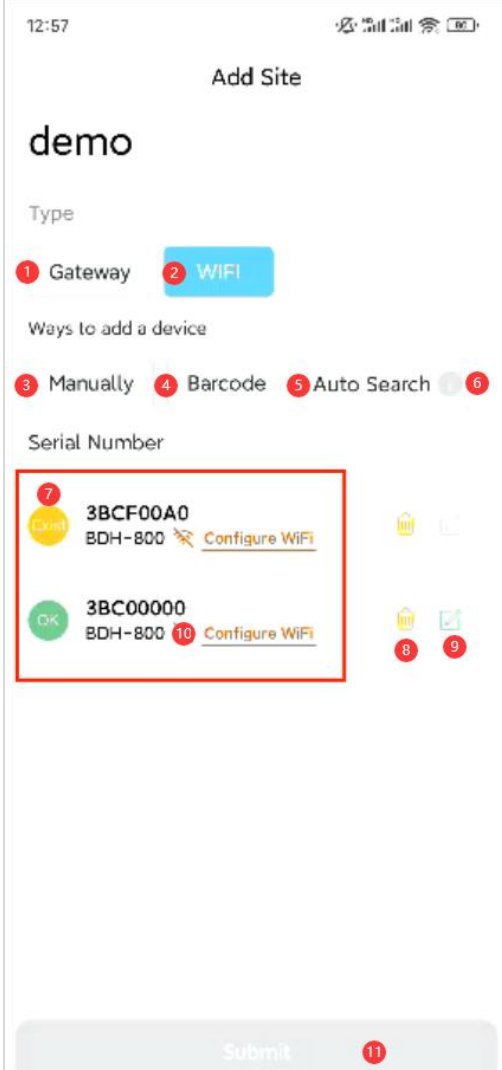
Create a site -- Add device

WiFi device (instructions for P12)

- Area 7 displays the serial number entered via 3/4

Note: There will be 3 states

- OK, means the SN is correct
- Exist, means the SN has been bound by other sites
- Err, means the serial number is wrong



12:57 Add Site

demo

Type

1 Gateway 2 WiFi

Ways to add a device

3 Manually 4 Barcode 5 Auto Search 6

Serial Number

7 Err 3BCF00A0 BDH-800 Configure WiFi

8 OK 3BC00000 BDH-800 10 Configure WiFi

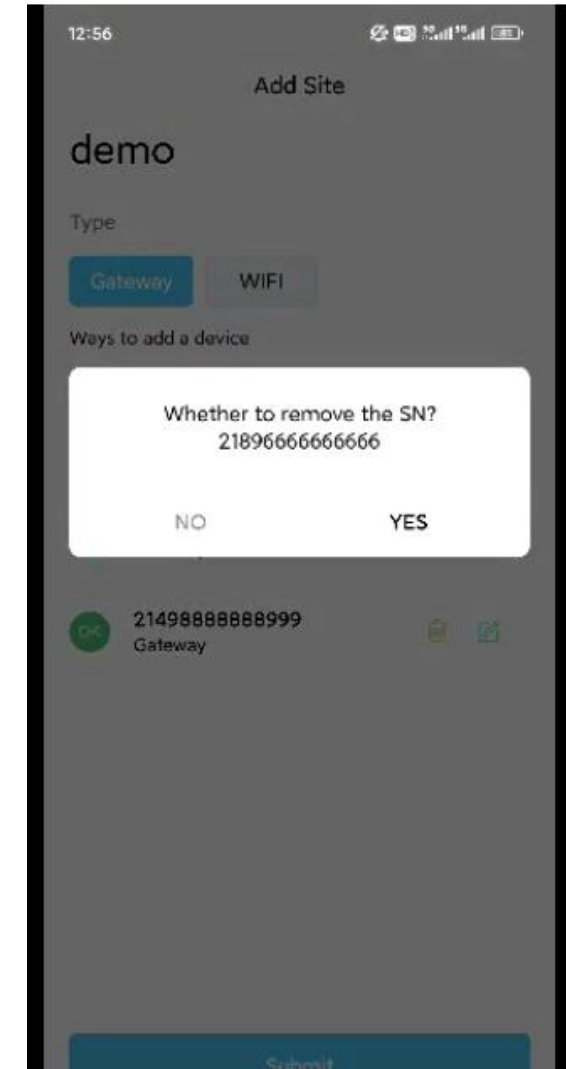
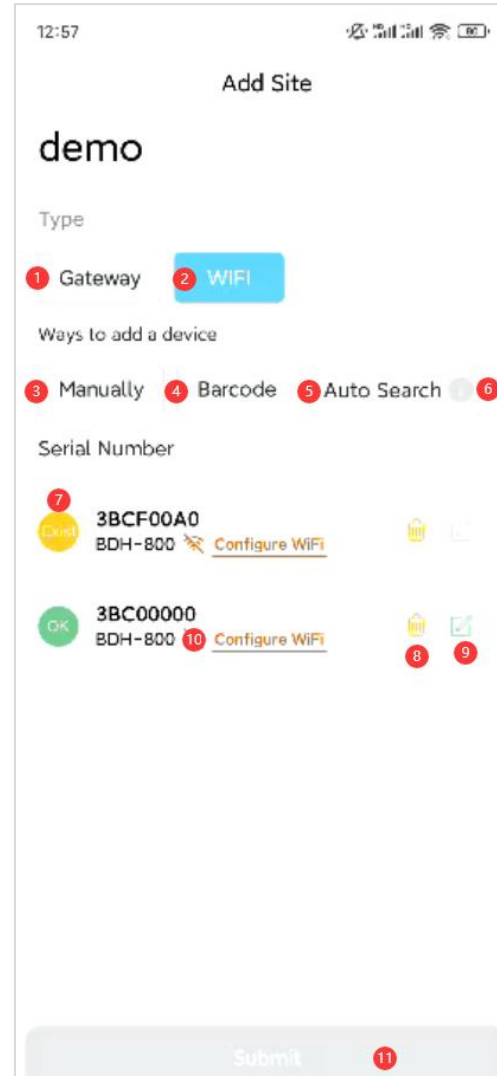
9

Submit 11

Create a site -- Add device

WiFi device (instructions for P12)

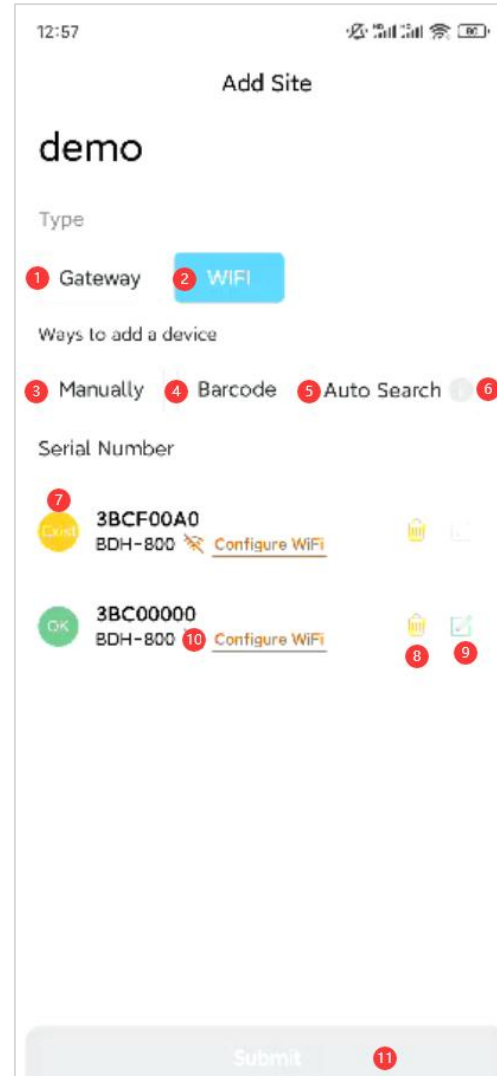
- Click 8 to delete the current serial number
Clicking yes will delete the current SN



Create a site -- Add device

WiFi device (instructions for P12)

- Click 11 to submit data (can only be submitted if all 7 areas are OK)
 - **Exist** exists in area 7 in the left picture, so it cannot be submitted.
 - The status of the 7 areas on the right are all OK, the **Submit** button appears, and you can submit



12:57 Add Site

demo

Type

1 Gateway 2 WIFI

Ways to add a device

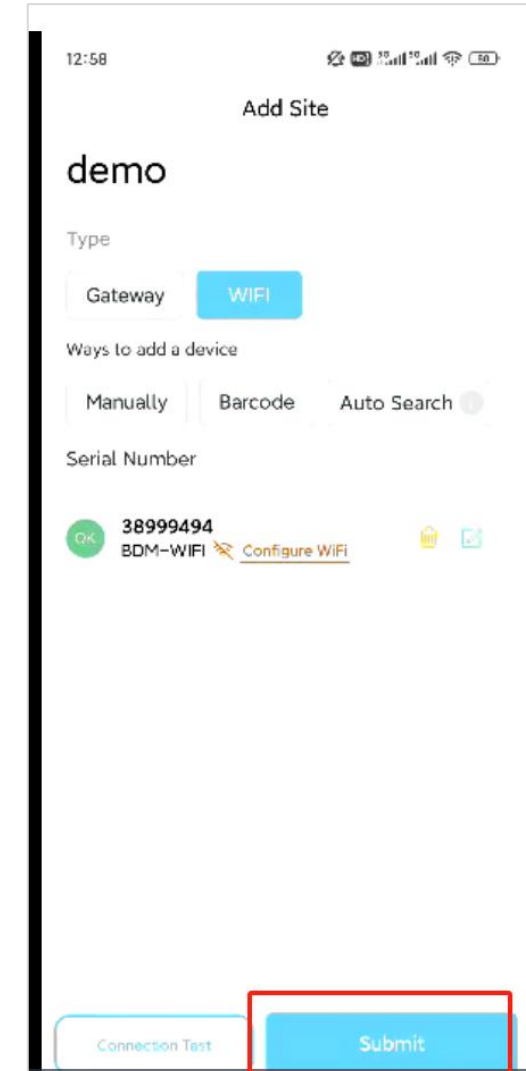
3 Manually 4 Barcode 5 Auto Search 6

Serial Number

7 Exist 3BCF00A0 BDH-800 Configure WiFi

OK 3BC00000 BDH-800 10 Configure WiFi 8 9

Submit 11



12:58 Add Site

demo

Type

Gateway WIFI

Ways to add a device

Manually Barcode Auto Search

Serial Number

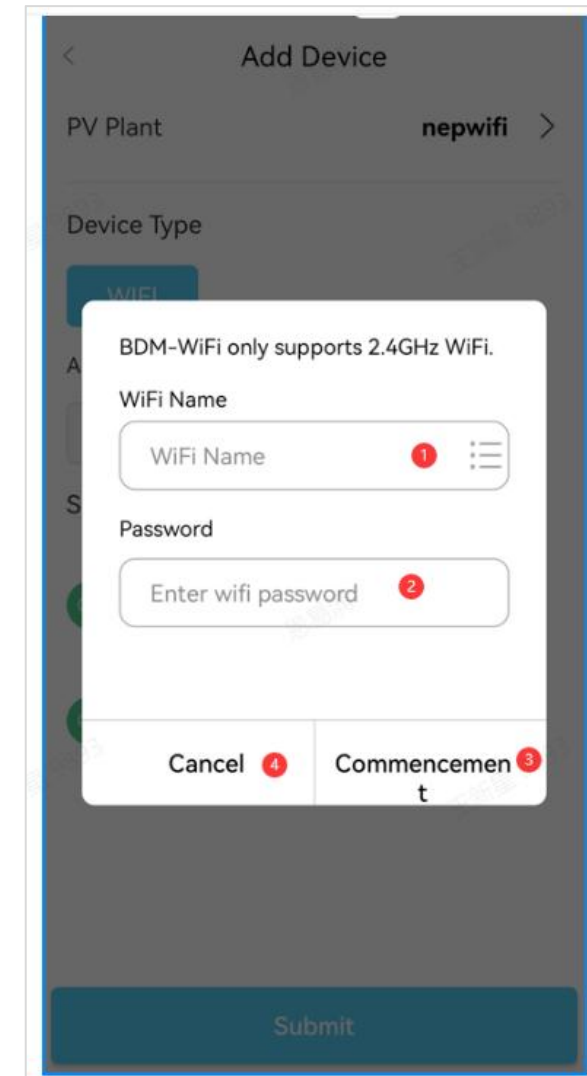
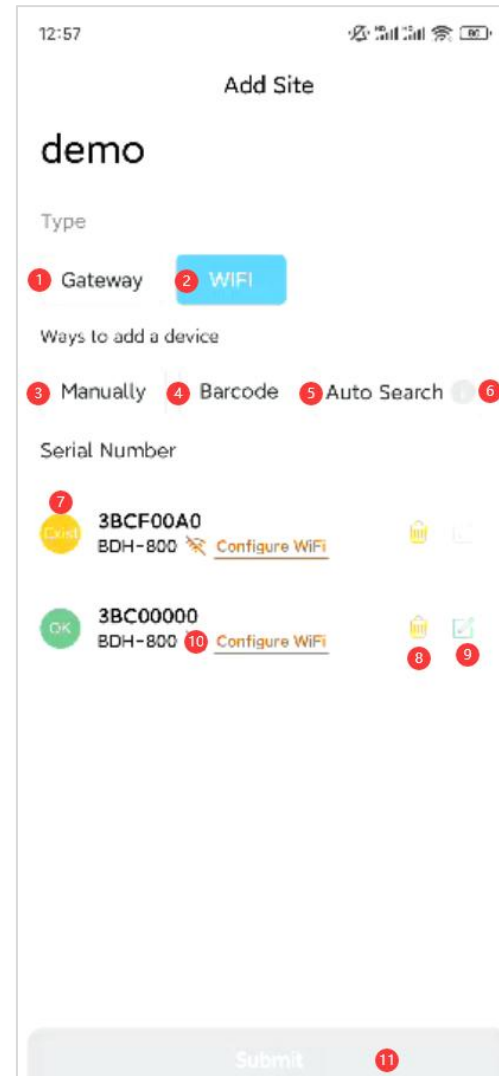
OK 38999494 BDM-WIFI Configure WiFi

Connection Test Submit

Create a site -- Add device

WiFi device (instructions for P12)

- Click 10 to configure the network for SN
- The picture on the right shows the home WiFi account and password input page.
- Click the menu to the right of 1 to select WiFi, Click the input box to the left of 1 to enter the WiFi name
 - Click 2 to enter the WiFi password
 - Click 3 to conduct a connectivity test and start to WiFi configure
 - Click 4 to cancel network provisioning

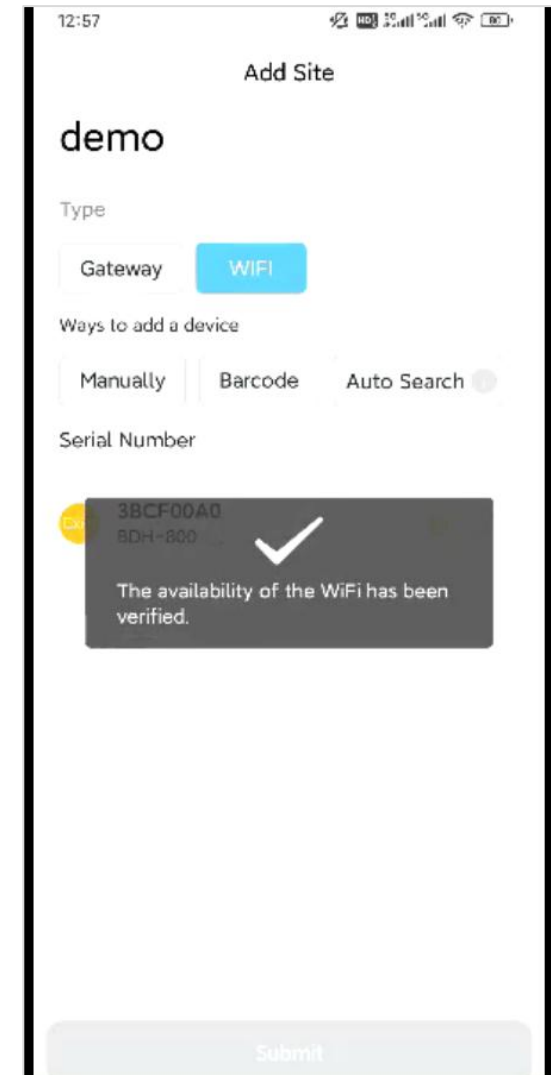


Create a site -- Add device

WiFi Configuration (continued from previous page no.3)

- Conduct a connectivity test and start WiFi configuration by entering the account and password

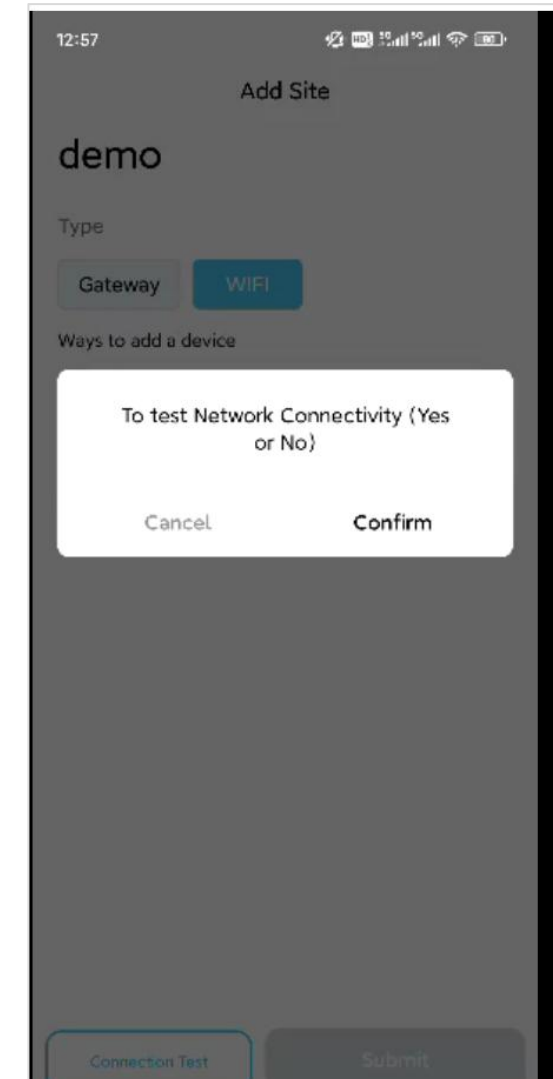
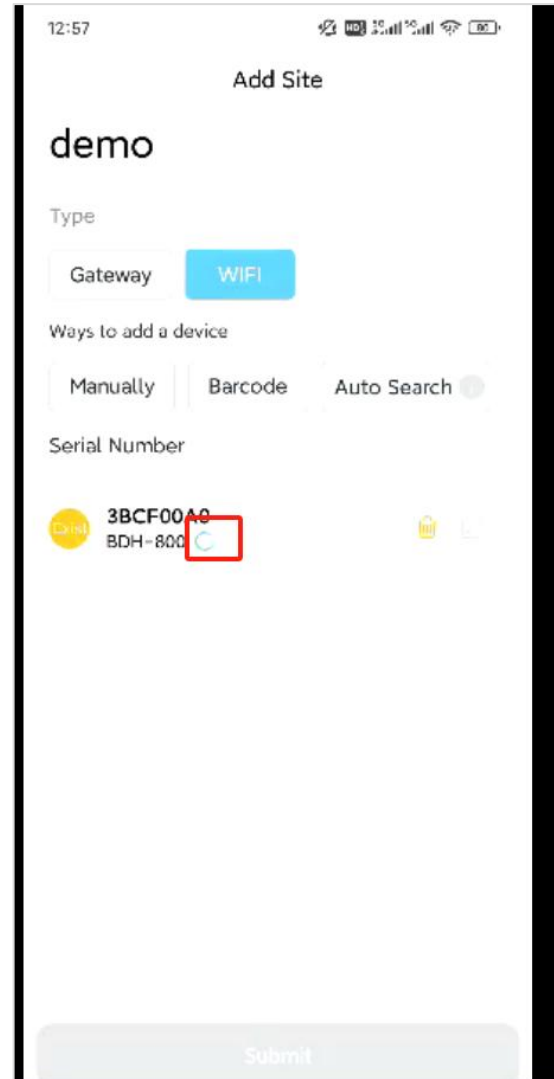
The picture shows the test passing page



Create a site -- Add device

WiFi Configuration

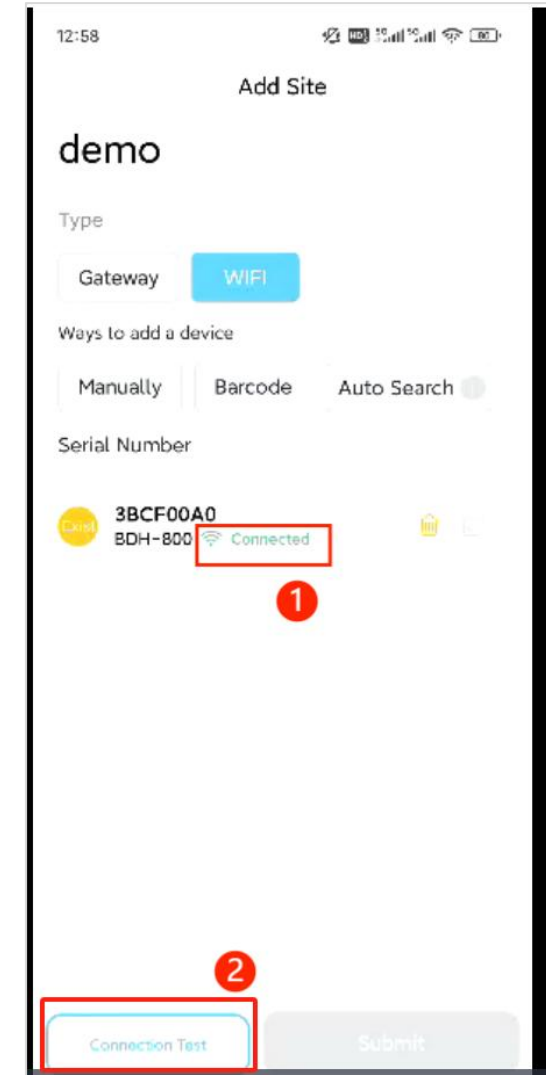
- Start configuring, the icon in the red box in the picture will rotate
- After the configuration is completed, you will be prompted whether to perform a connectivity test.
- Click OK to check the device's networking status
- Clicking Cancel will not perform the test



Create a site -- Add device

WiFi Configuration

- The device's networking status is normal
The picture shows the results displayed by **the end user**
The device IP will be displayed in the red box in **the installer's 1** area.
- Click the 2 area button to re-test



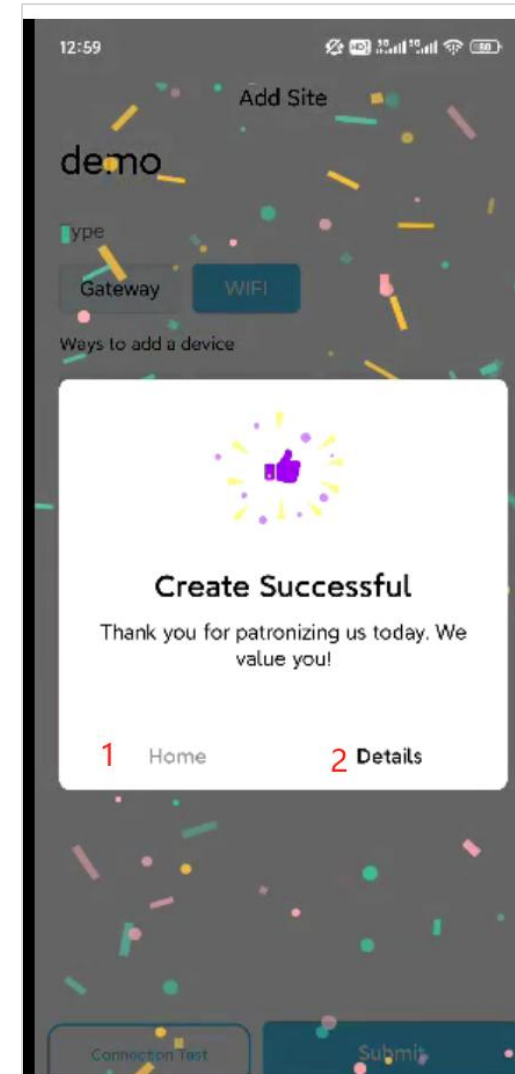
Create a site -- Add device

WiFi device (instructions for P12)

- Creation completed

The page is as shown in the picture

- Click 1 to jump to the homepage
- Click 2 to jump to the device details page



Tabbar

- As shown in the figure, they are the site page, quick tools page, and settings page in sequence.

The selected item will be displayed in green.



Site

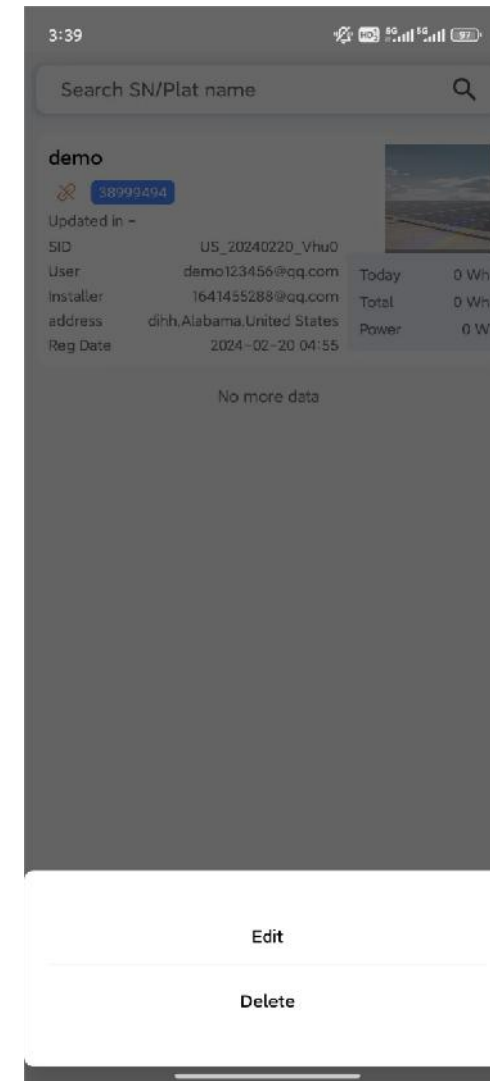
- The site page displays the user's site list instead of the device list

The picture on the left shows the data status of the site list.

- In Android system, if you long press each ITEM, Edit & Delete will appear.
- In IOS system, if you swipe left on each ITEM, Edit & Delete will appear.
- Click Edit to edit the site information.

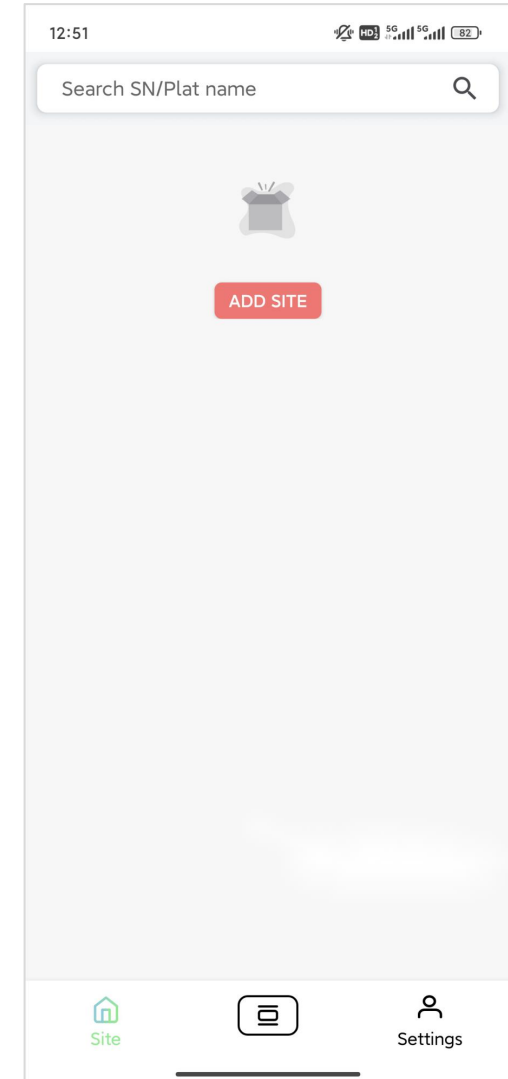
Please refer to creating a site for operation

- Click Delete to delete the site



Site

- The site page displays the user's site list
The picture shows the site list with no data status
- Click ADD SITE to jump to the page for creating a site



Quick tool

- Click the middle button of the tabbar to display the quick tools
- Click 1 to jump to the page for creating a site
- Click 2 to jump to the add device page
- Click 3 to jump to the quick WiFi configuration page
- Click 4 to jump to AP mode
- Click 5 to jump to AT mode
- Click 6 to close the current page



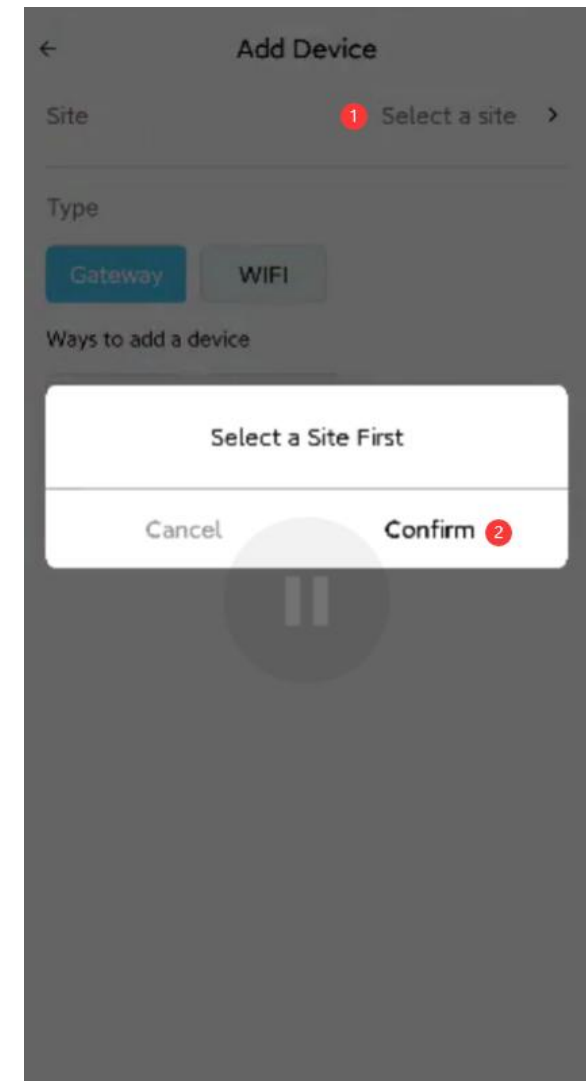
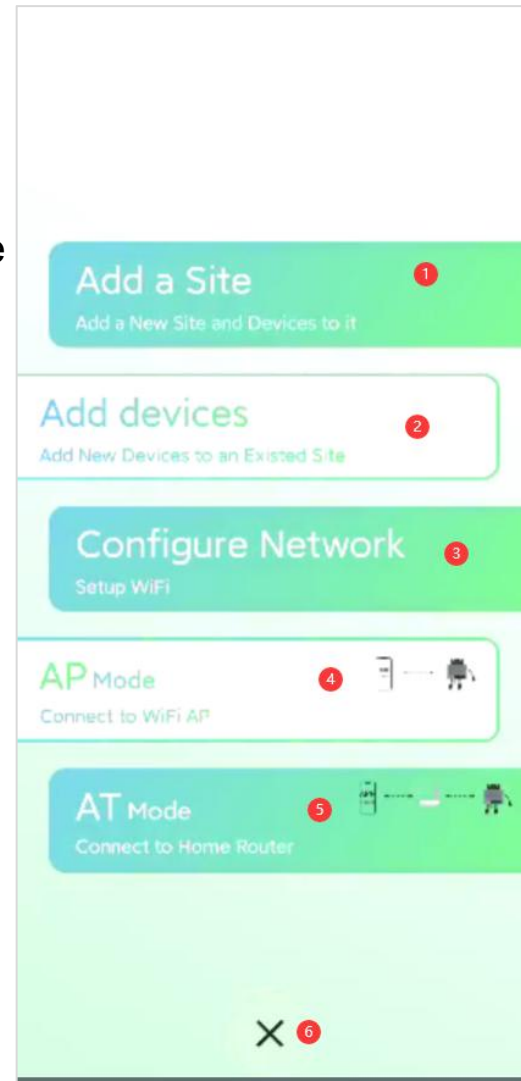
User Interface

Quick tool (instructions for P29)

- Click 2 to jump to the add device page

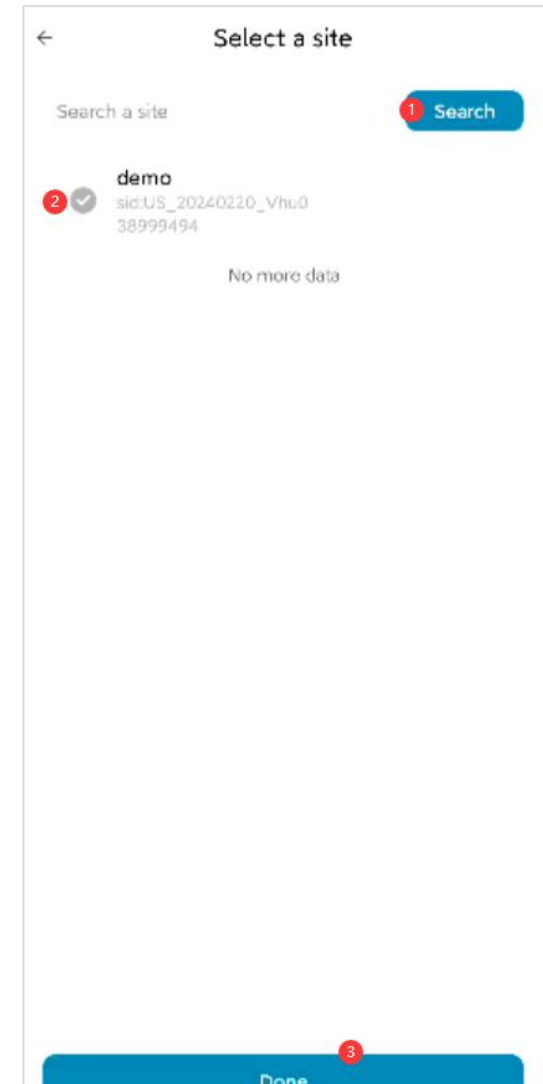
The picture on the right shows the add device page

- 1 prompts to select a site
- Click 2 to jump to the site selection page



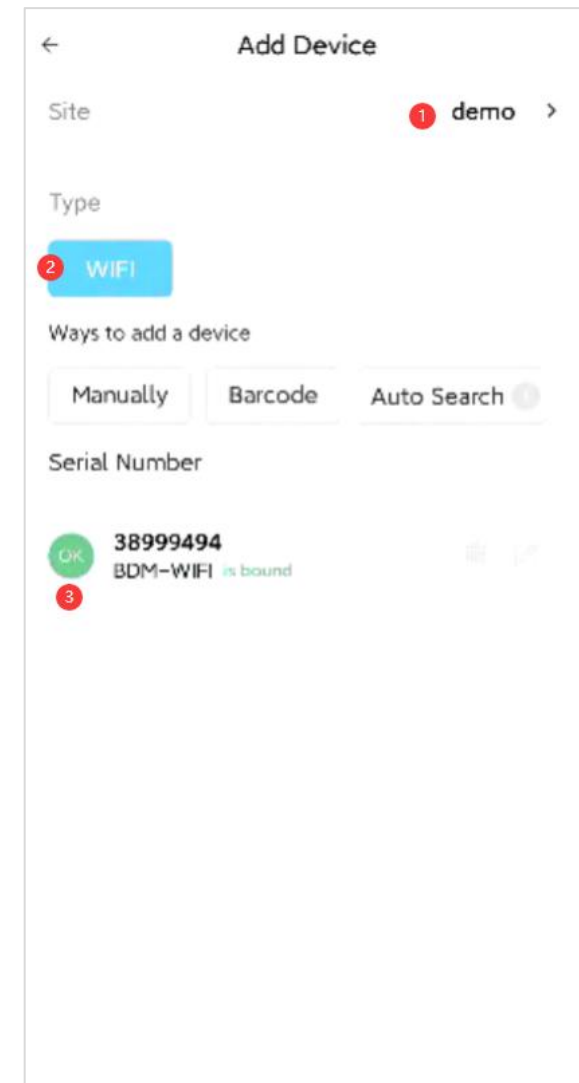
Add device (continued from previous page)

- Click 1 to search for sites
- Click 2 to select the site. After selection, the gray icon on the left will turn green
- Click 3 to confirm your selection



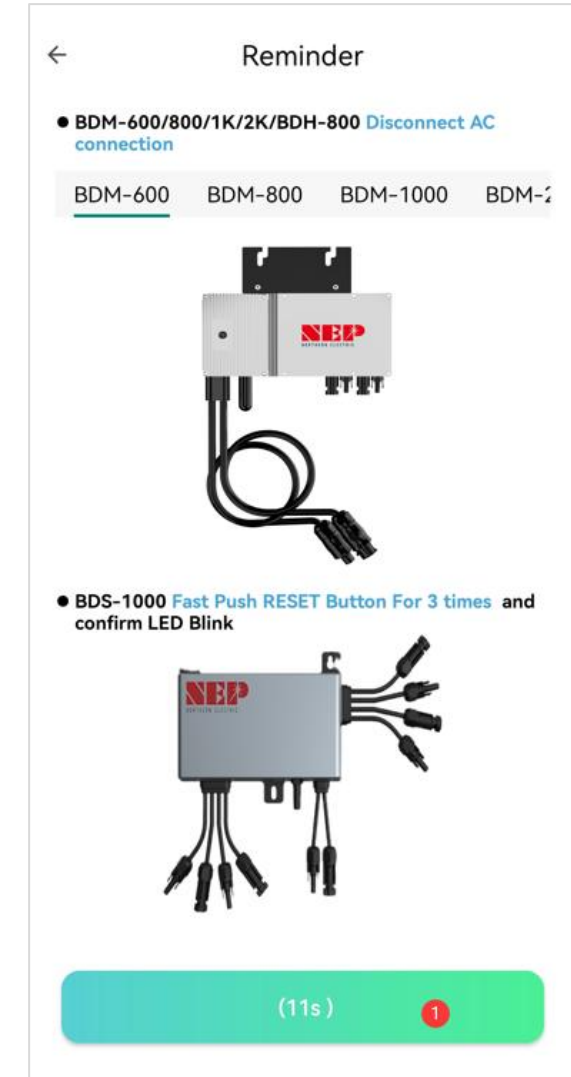
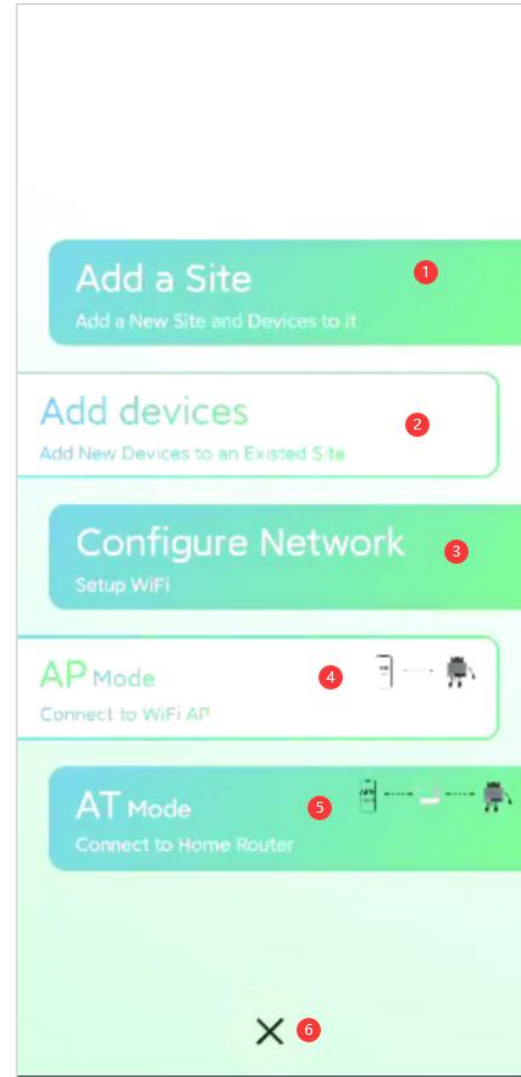
Add device (continued from previous page)

- 1 will display the name of the selected site
Click again can select the site again
- 2 will display the added device types
 - If any devices have been added to the site before, the type here must be consistent with the previous devices, so the other option will be closed
- Devices that have been bound to the previous power station are displayed in 3 places
- For the subsequent process, please refer to the second step of 'creat a site'



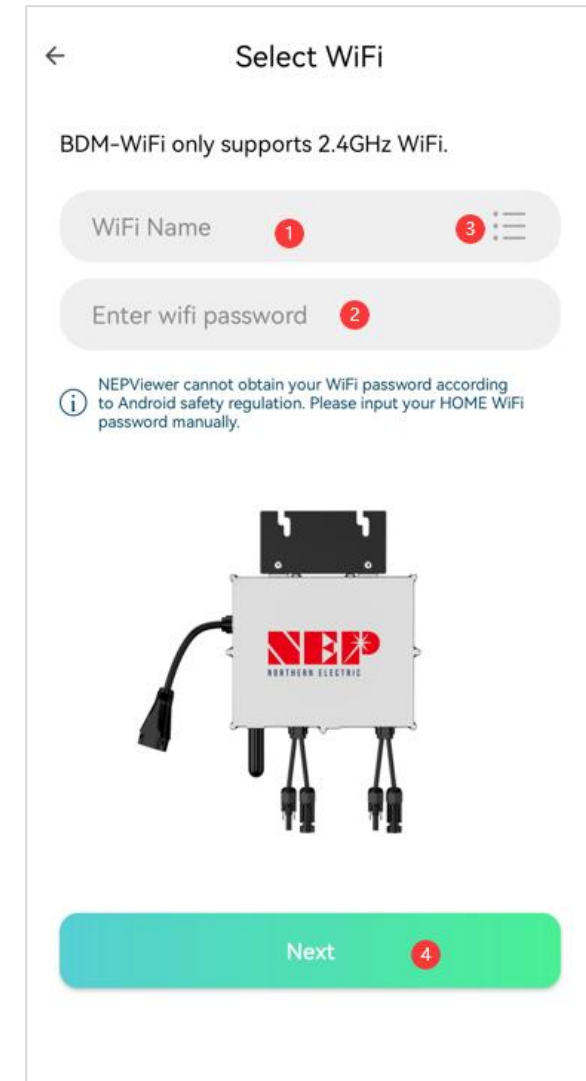
Quick tool (instructions for P29)

- Click 3 to jump to the quick WiFi configuration page
- The picture on the right shows the prompt page that introduces how to put the device into WiFi configuration mode



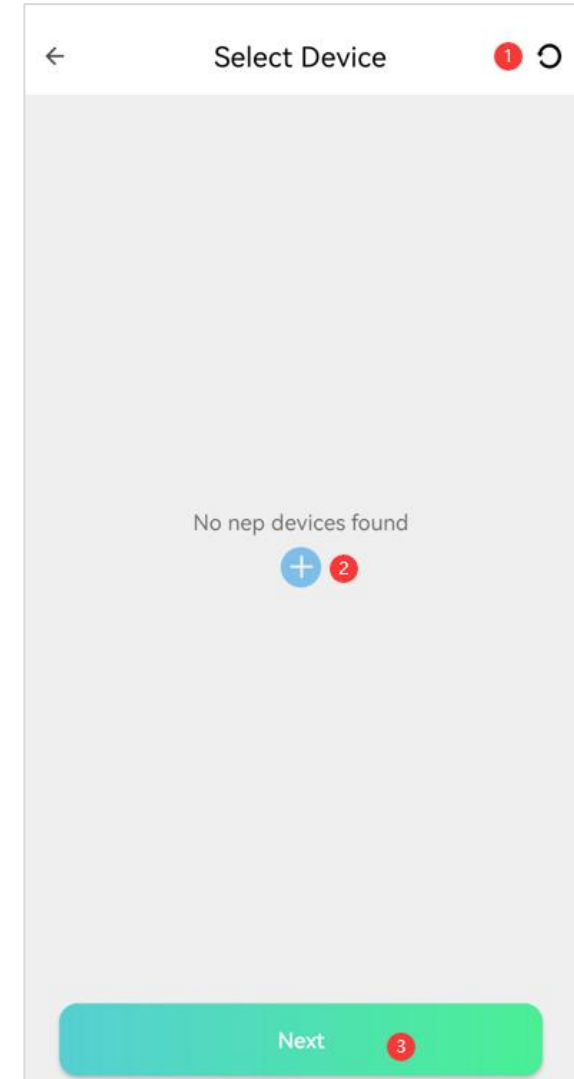
Quick WiFi configuration (continued from previous page)

- Click 1 to enter the WiFi account
- Click 2 to enter the WiFi password
- Click 3 to select nearby WiFi
- Click 4 to proceed to the next step



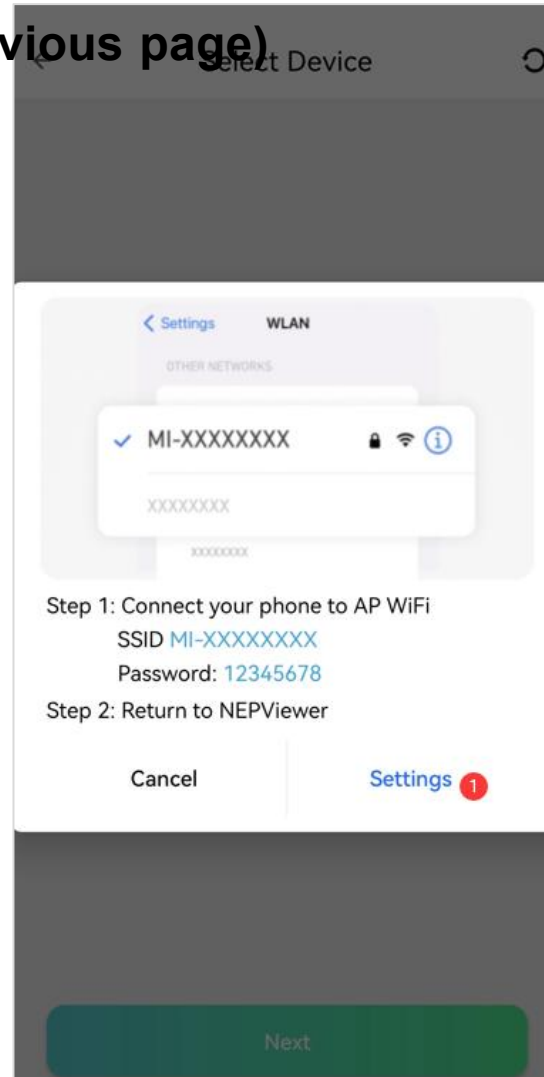
Quick WiFi configuration (continued from previous page)

- Select the devices that require network distribution
- Clicking 1 will refresh the automatic search for nearby devices
- Click 2 to add devices manually



Quick WiFi configuration (continued from previous page)

- Add devices manually
- Click 1 to enter the system page and select the device to be connected
- Select the device WiFi you want to connect to and return to the APP

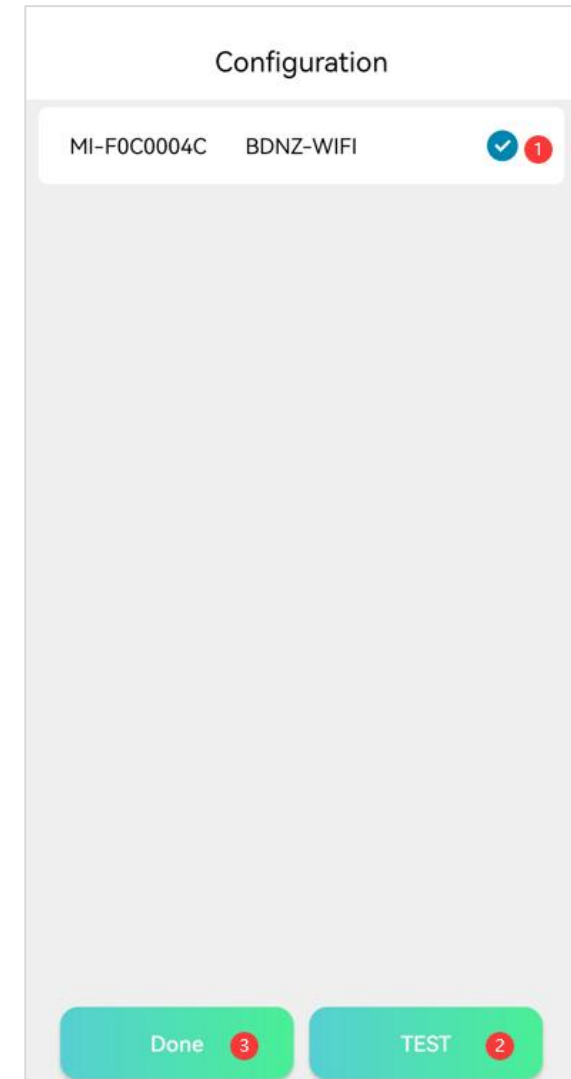
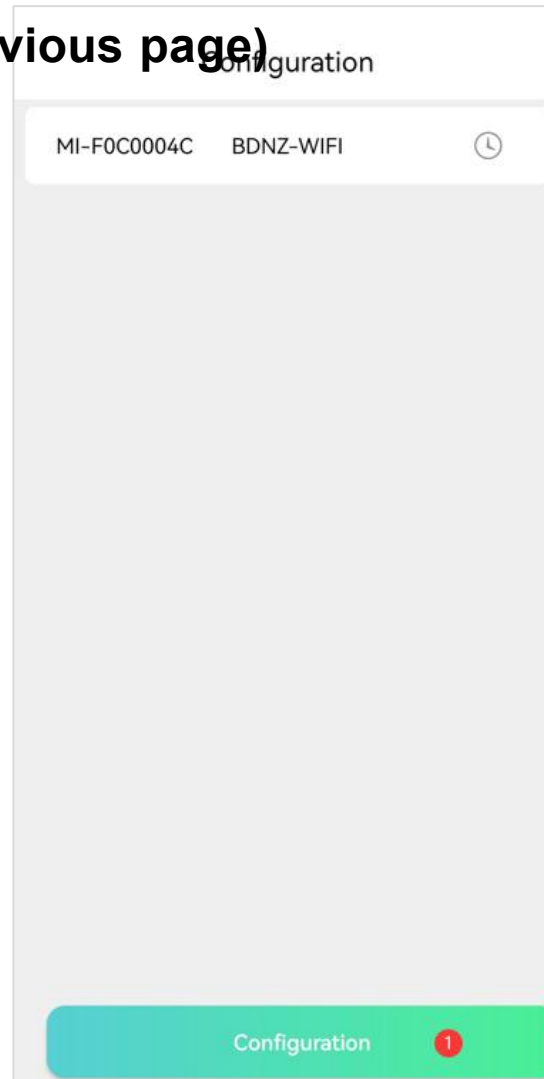


Quick WiFi configuration (continued from previous page)

- Return to APP
- Click 1 to start network configuration

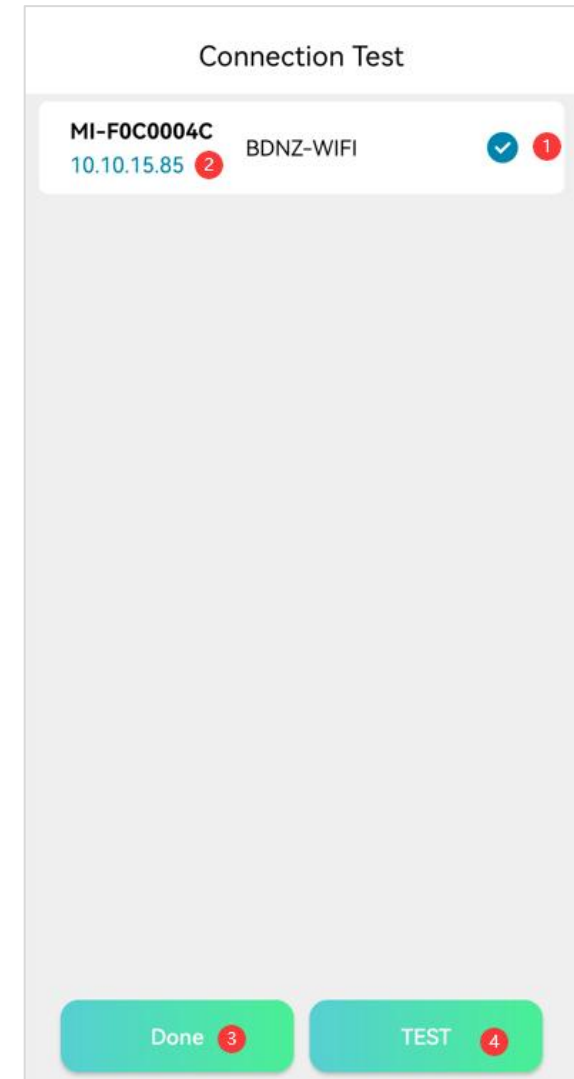
The picture on the right shows the configuration result

- If 1 is displayed as blue ✓, it means the configuration is successful.
- Click 2 to test connectivity



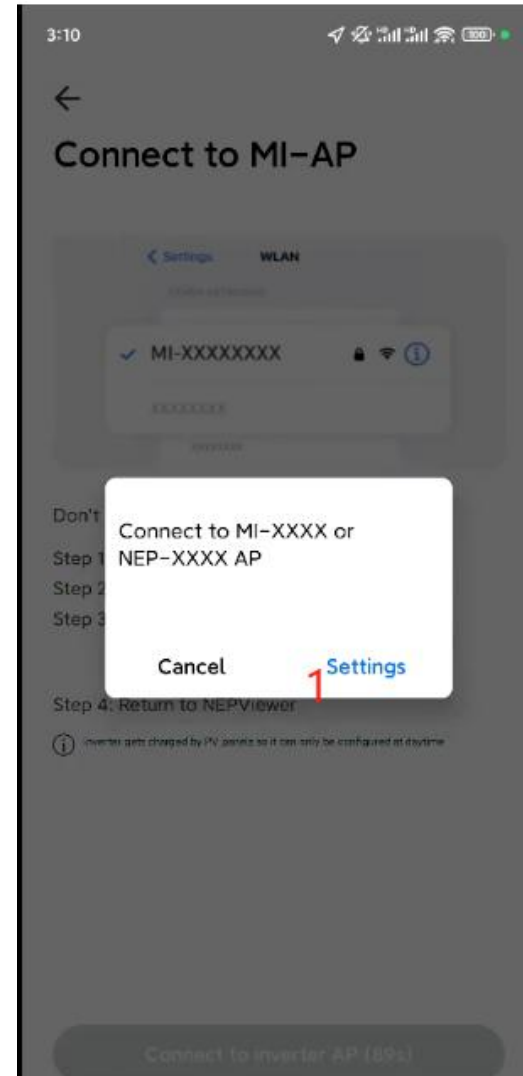
Quick WiFi configuration (continued from previous page)

- Connectivity test results
- A check mark on the left of 1 indicates success
- 2 Display device IP
- Click 3 to finish and exit the page
- Click 4 to retest



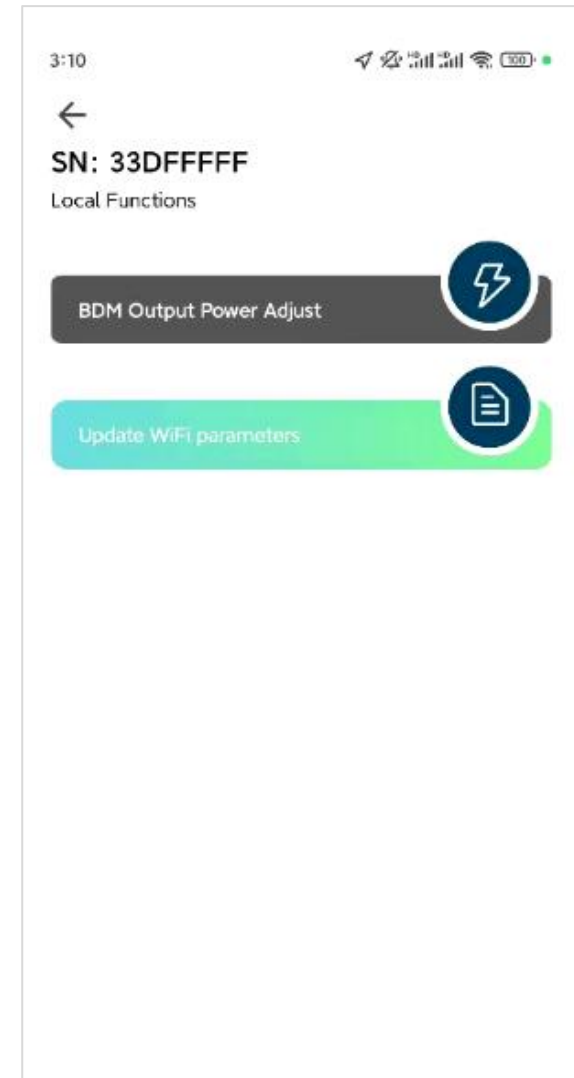
AP mode (instructions for P29)

- Click 4 to jump to AP mode
You need to manually select the device you want to connect to on the system WiFi page
- Click 1 to open system WiFi settings
- Select the device WiFi you want to connect to
- Return to APP



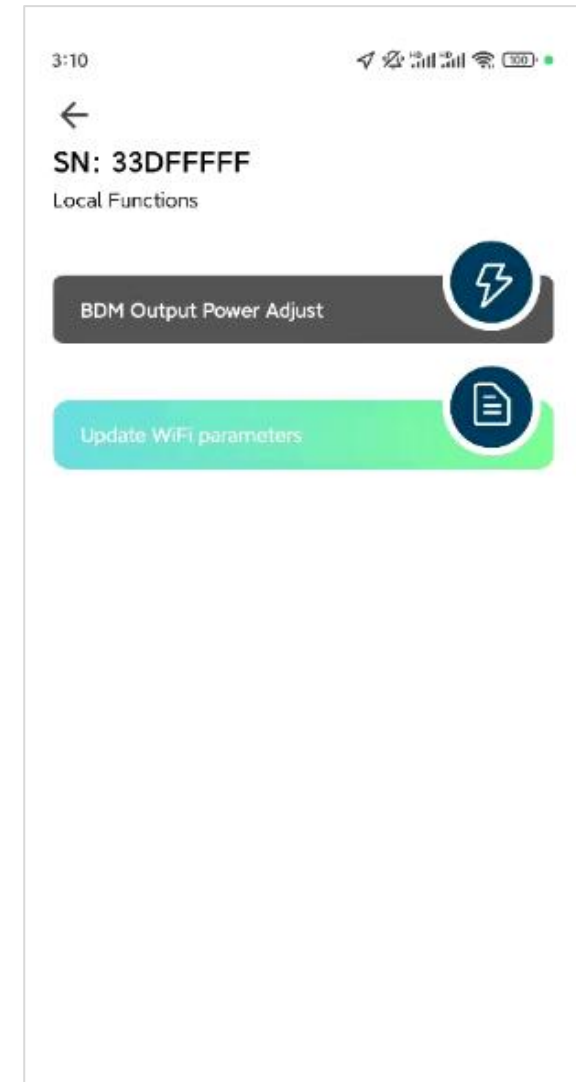
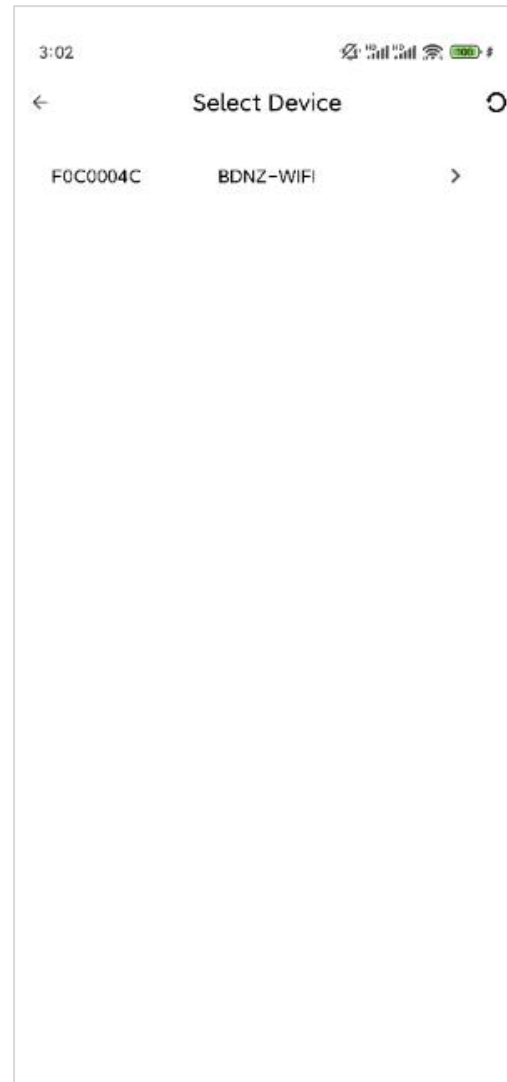
AP Mode (continued from previous page)

- Click 1 to enter the parameter setting page
- Different SNs have different setting parameters.
The picture on the right is for reference only.
- Parameter settings will be explained in detail
in the next chapter



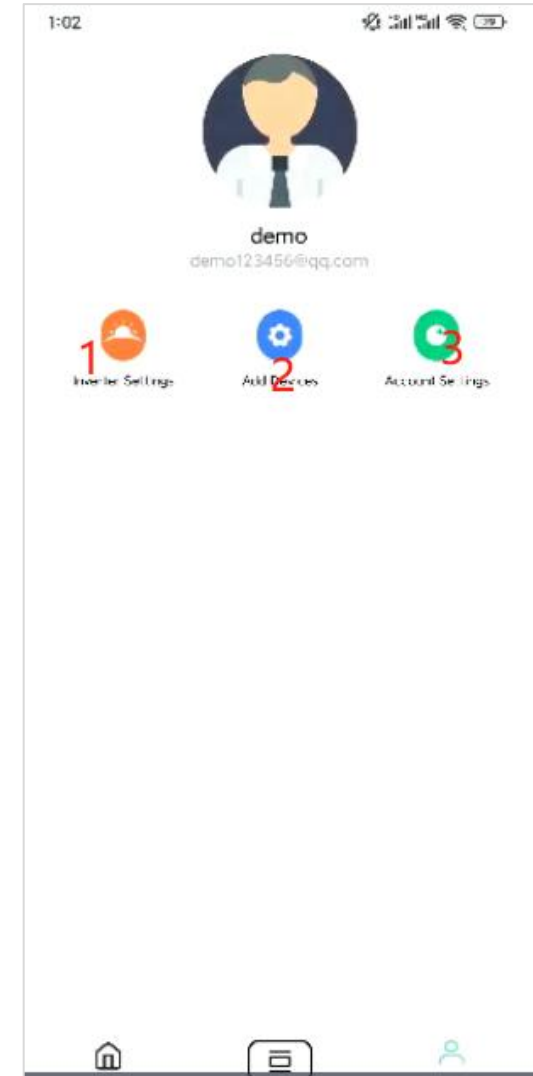
AT Mode (instructions for P29)

- Click 5 to jump to AT mode
Automatically search for nearby devices
- Click the corresponding SN to set parameters
- Different SNs have different setting parameters.
The picture on the right is for reference only.



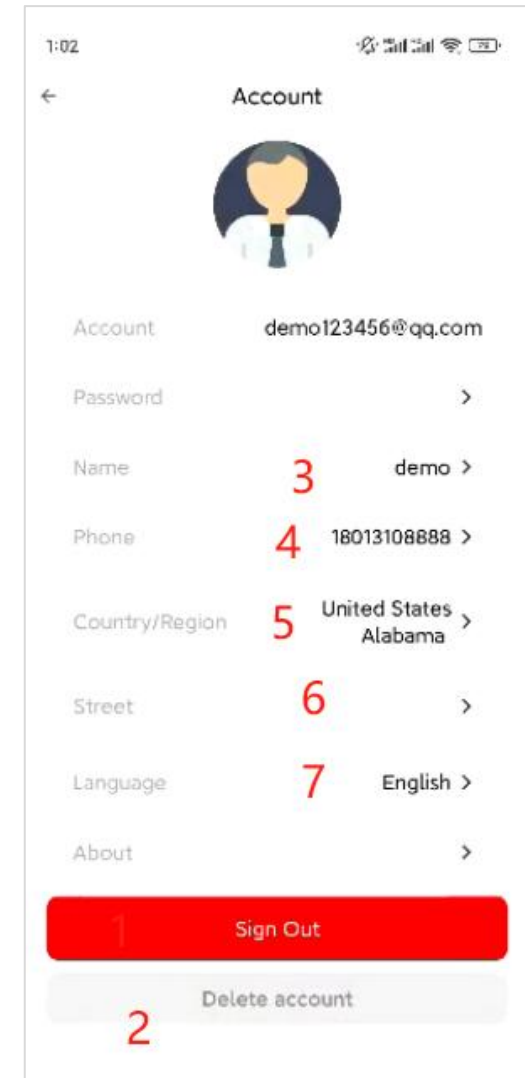
Setting

- Click 1 to jump to the inverter setting page. please refer to P39-41 for operation
- Click 2 to jump to the add device page, please refer to P30-32 for operation
- Click 3 to jump to personal information settings



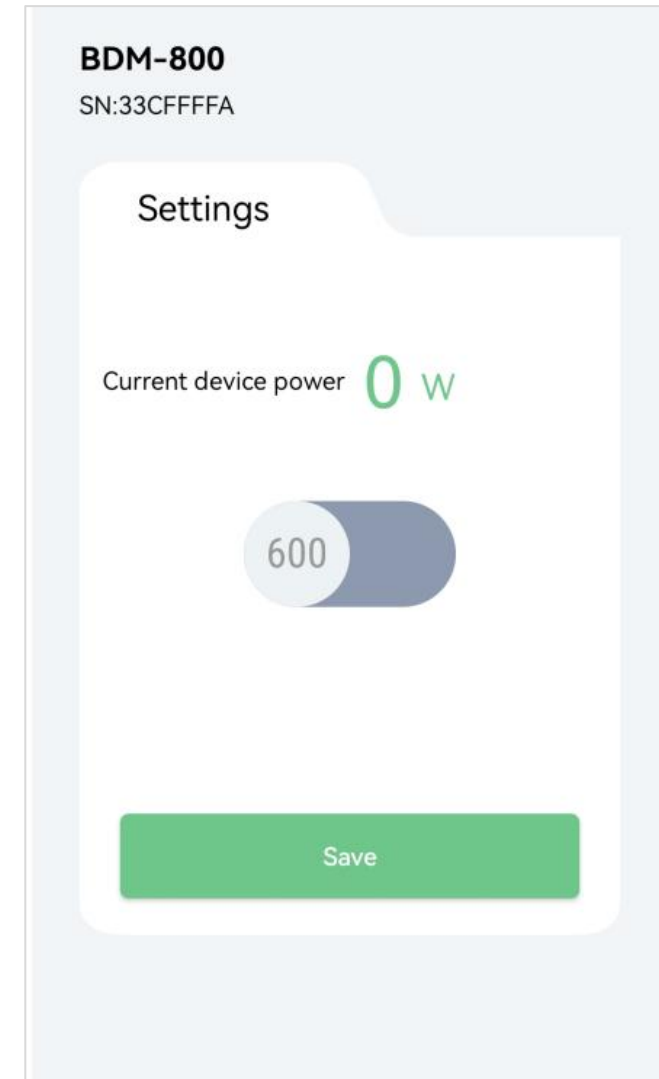
Setting

- Personal information settings
- Click 1 Sign Out will log out and jump to the login page
- Click 2 will log out the current account and no longer retain any data, please pay attention to the operation
- Click 3/4/5/6 to jump to the personal information setting page
- Click 7 to switch languages



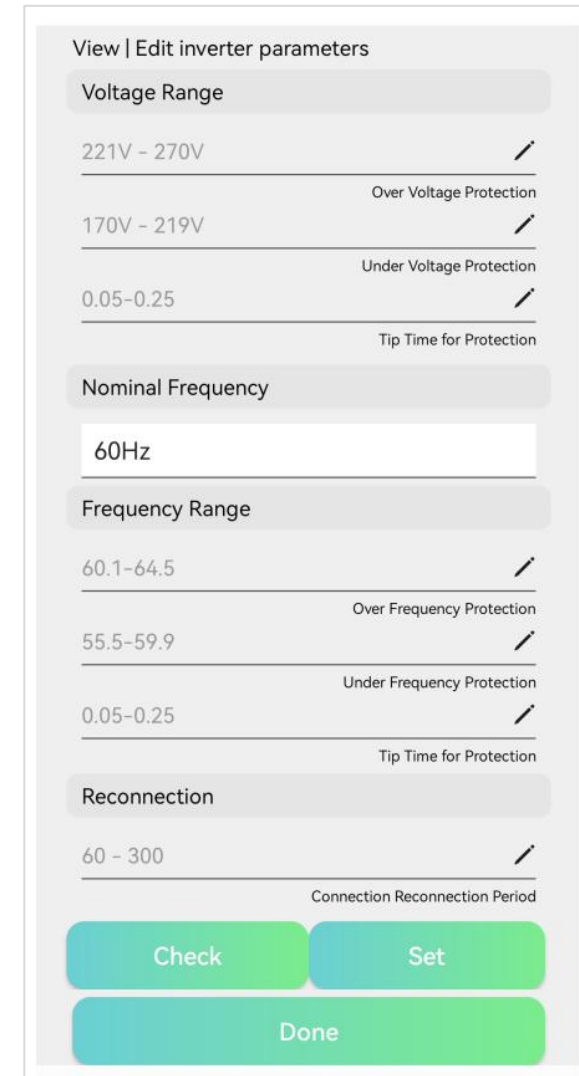
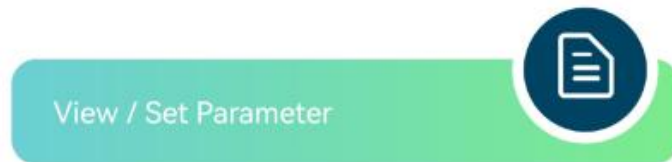
Parameter setting

- BDM Output Power Adjust
- The picture below shows the function button
- The picture on the right shows the settings page (same for Android & IOS)



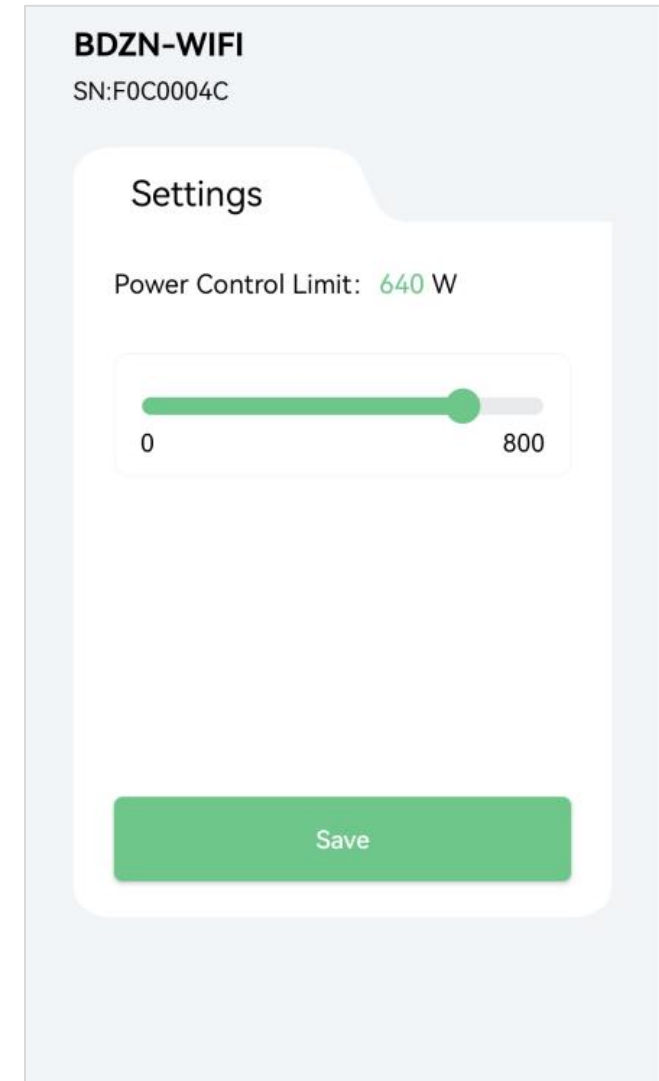
Parameter setting

- View / Set Parameter
- The picture below shows the function button
- The picture on the right shows the settings page (same for Android & IOS)



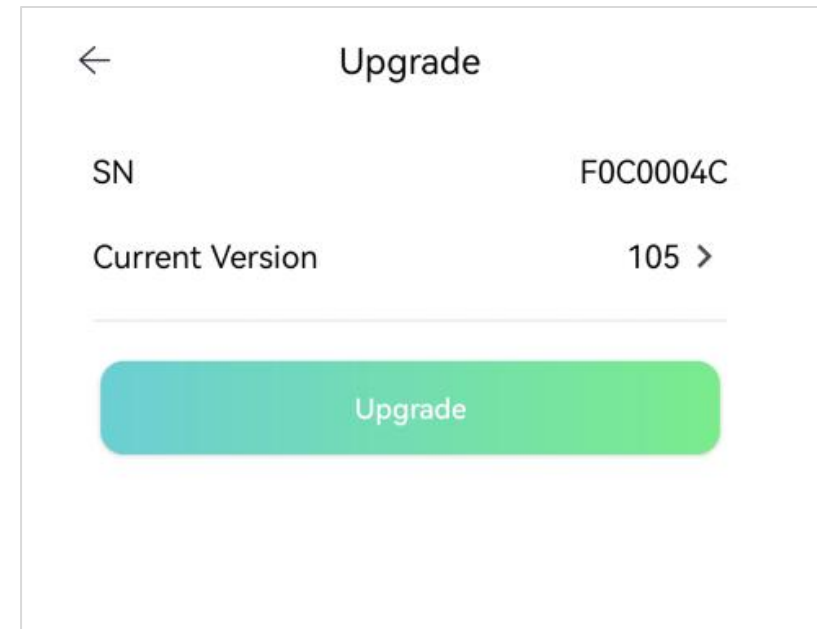
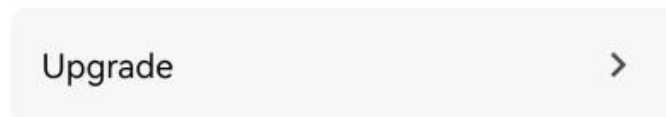
Parameter setting

- Power Control Limit
- The picture below shows the function button
- The picture on the right shows the settings page (same for Android & IOS)



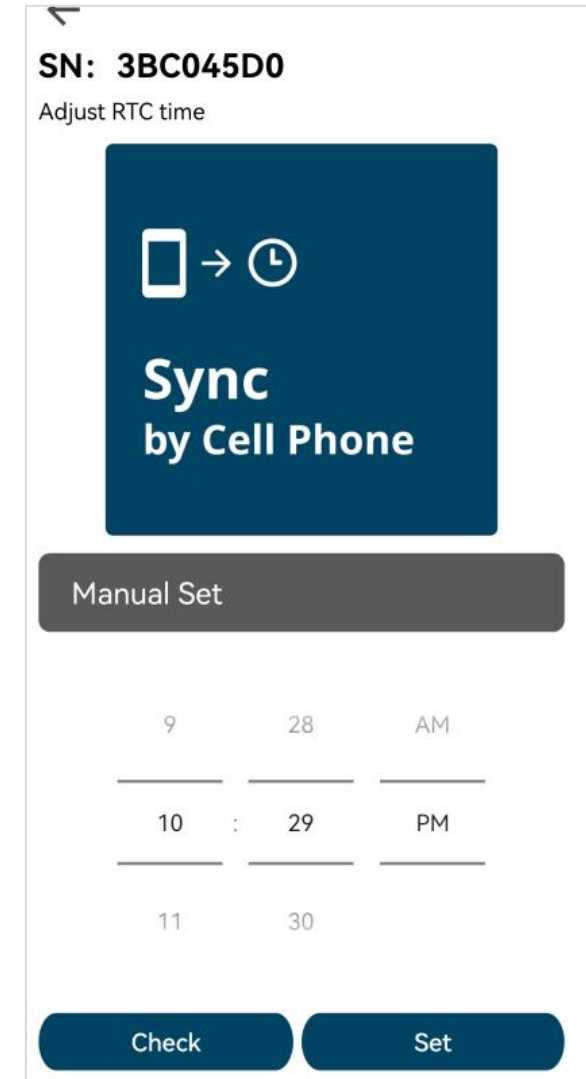
Parameter setting

- Upgrade
- The picture below shows the function button
- The picture on the right shows the Android settings
- IOS does not have this function yet



Parameter setting

- Adjust RTC time
- The picture below shows the function button
- The picture on the right shows the settings page (same for Android & IOS)



Parameter setting

- Inverter Scheduling
- The picture below shows the function button
- The picture on the right shows the settings page (same for Android & IOS)

