

## ShineLink-X2 Configuration Guide

For the latest information, please visit <https://server.growatt.com>.

E [service@growatt.com](mailto:service@growatt.com)

W [en.growatt.com](http://en.growatt.com)

For local customer support, please visit <https://en.growatt.com/support/contact>

### Step 1. Turn on the device and check the connection status

- When the ShineLanBox-X2 is initially powered on, the white light will remain on for 30 seconds.
- After installing the ShineRFStick-X2, power on the PV device. When it is successfully connected to the PV device and ShineLanBox-X2, it slowly flashes blue light.



[Android & iOS]

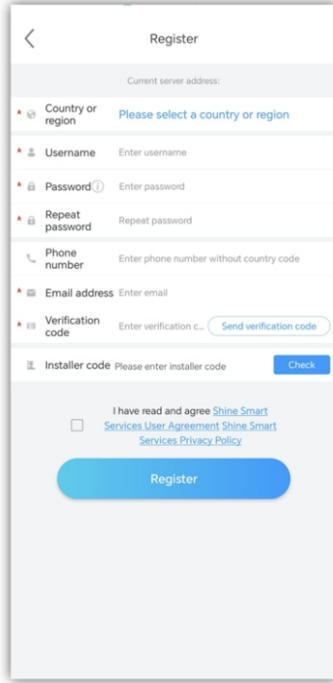
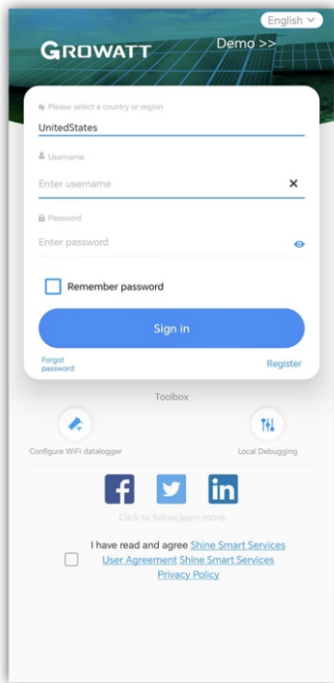
### Step 2. Download the ShinePhone app

Scan the QR code below to download ShinePhone, or you can search for ShinePhone in the Apple Store or Google Play to download and install the APP.

1. Make sure you download the latest version.
2. For further information, please visit <http://server.growatt.com>.

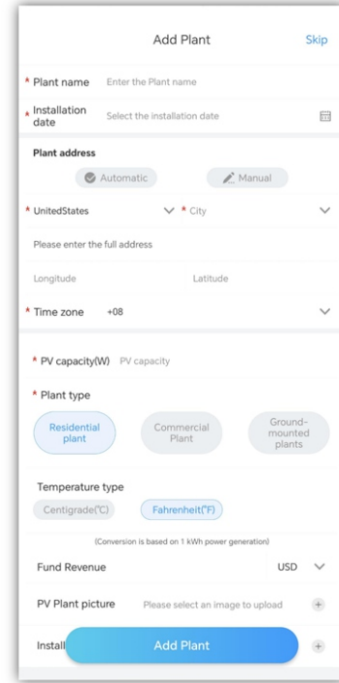
### Step 3. Register an account

1. Connect your phone to the router via a wireless network;
2. Run the ShinePhone APP and go to the registration page;
3. Fill in the registration information and click "Register" (country or region, please select accurate information).



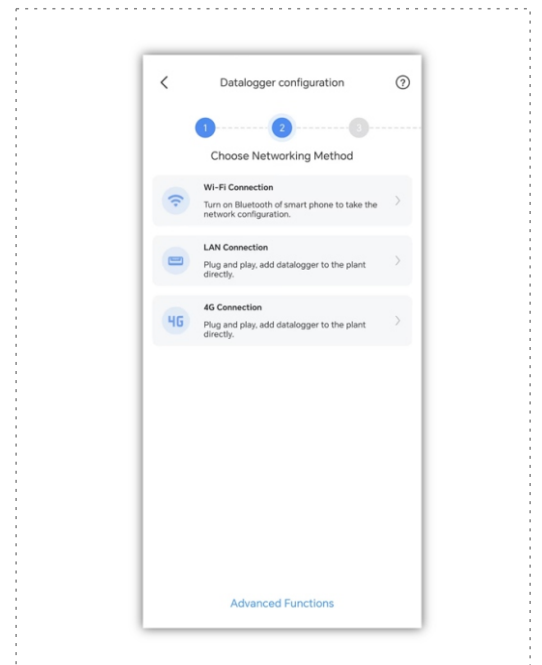
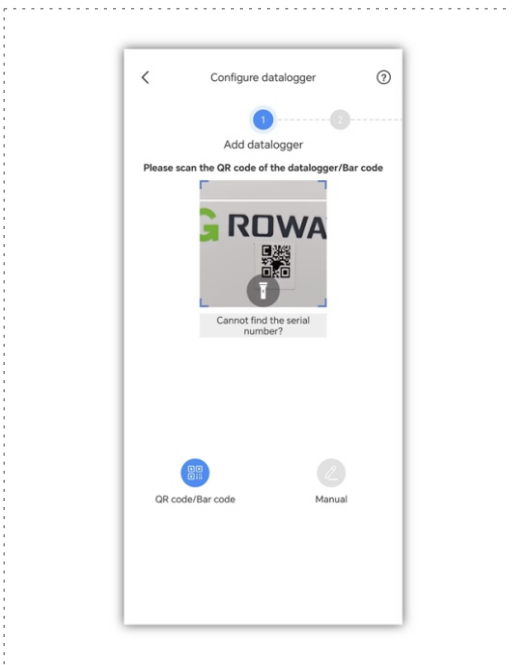
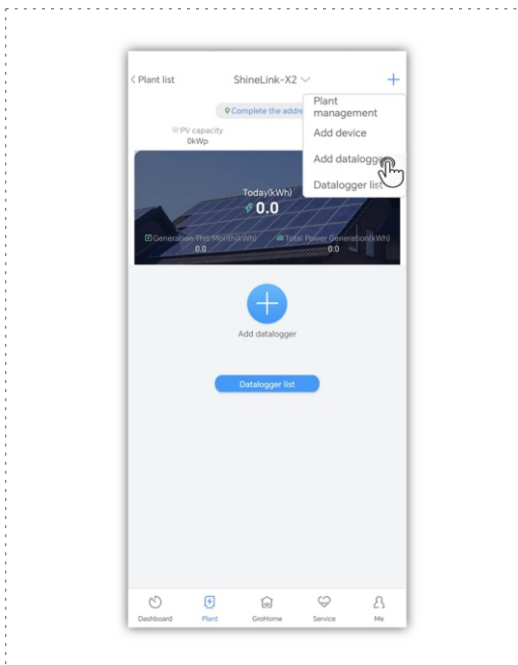
### Step 4. Add a plant

1. Enter the "Add Plant" page (the first registration will automatically pop up, please click the "+" sign on the plant page to add the plant later);
2. Fill in the plant information;
3. Click "Add Plant" to add the plant.



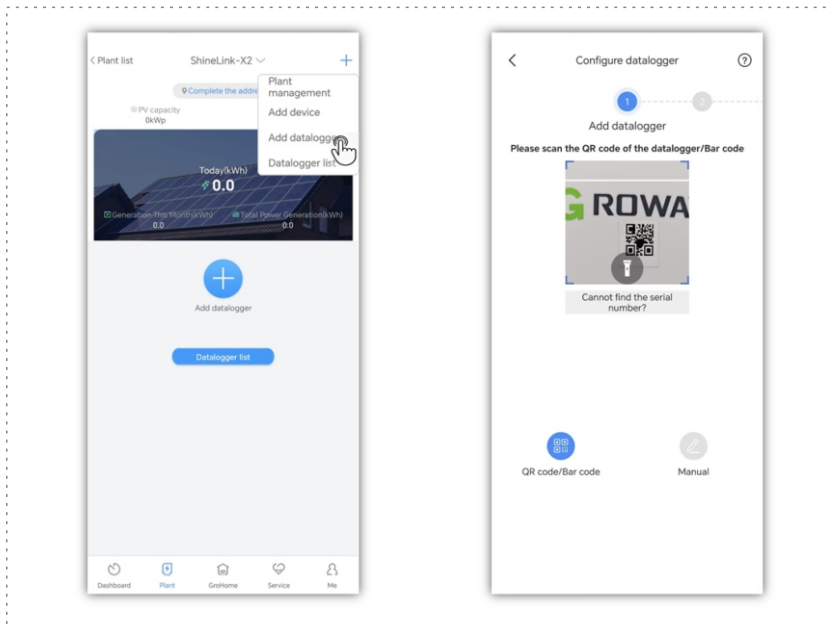
### Step 5. Add ShineLanBox-X2 to the power station

1. On the target power station page, click "+" to add datalogger;
2. Scan the QR code or manually enter the serial number (SN) and verification code;
3. If you select "LAN Connection" and "4G Connection", the datalogger will be added directly. If "Wi-Fi Connection" is selected, you need to configure the network to add the datalogger.



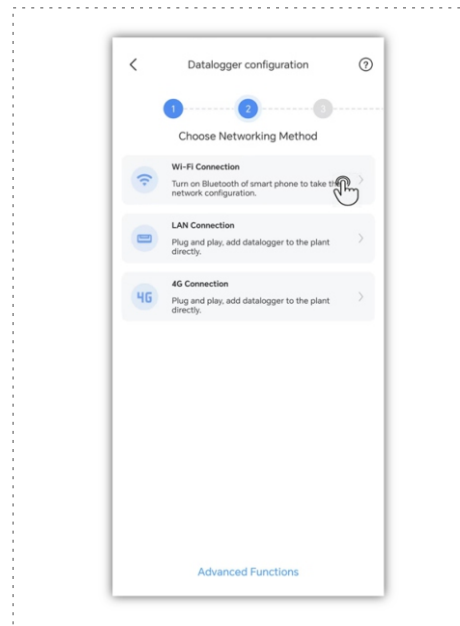
# Step6. Network mode configuration

## 1. Wi-Fi Connection

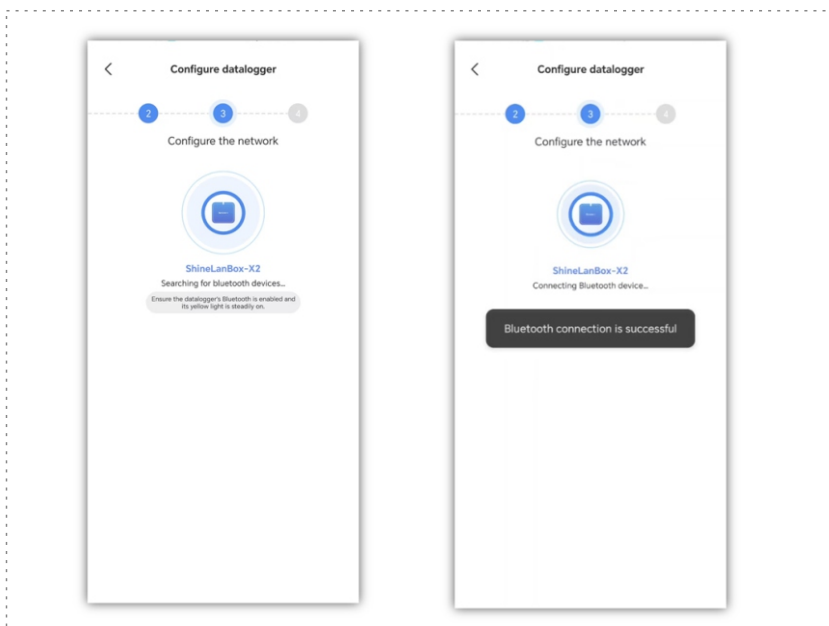


Configure the datalogger

Step 01: On the target power station page, click "+" to add the datalogger.  
Step 02: Scan the QR code or manually enter the serial number(SN) and verification code.

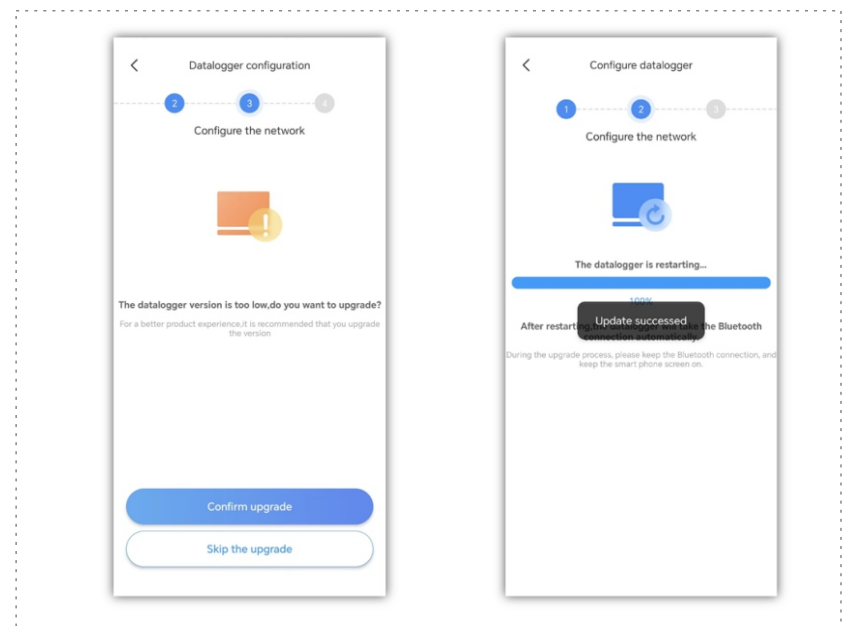


Select "Wi-Fi Connection"



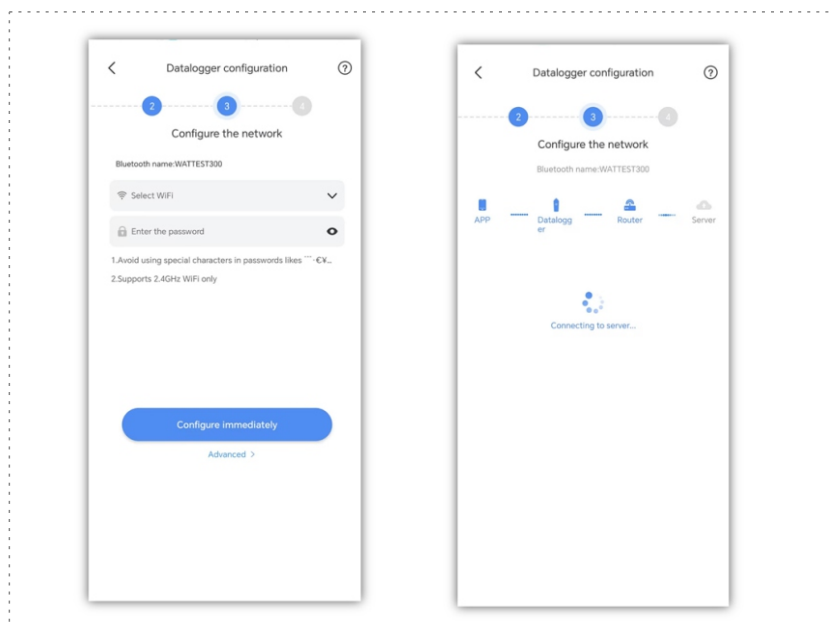
Datalogger configuration starts and enter the search Bluetooth mode

Step 01: Select "Wi-Fi Connection" to enter the search Bluetooth mode.  
Step 02: The ShineLanBox-X2 indicator light is yellow and always on, indicating that Bluetooth is on. If Bluetooth is off, click the datalogger button to turn on Bluetooth and continue the network configuration operation.



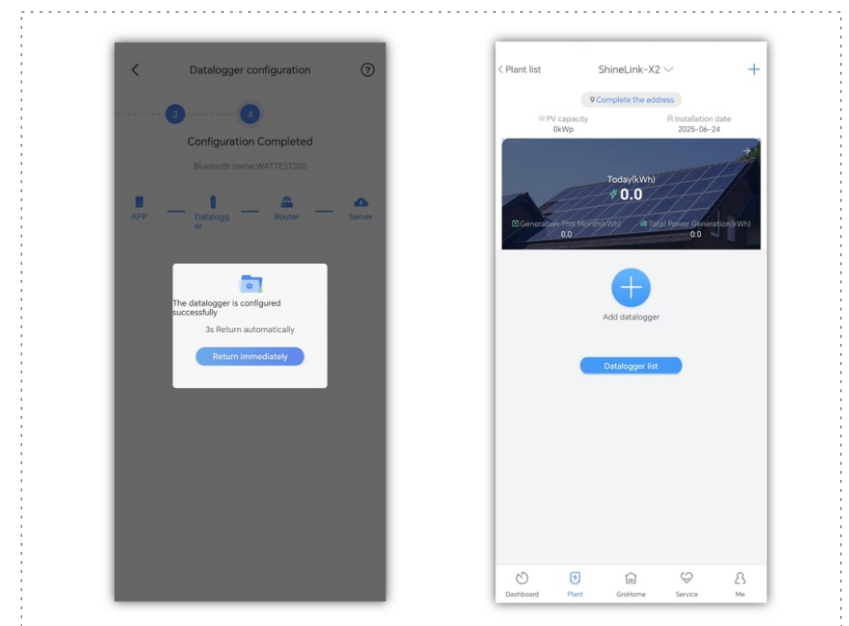
Datalogger firmware upgrade (only perform when update is required)

Step 01: Choose whether to upgrade the datalogger version.  
Step 02: If you need to upgrade the datalogger, please wait for about 10 minutes. The datalogger will restart automatically once the upgrade is complete.  
Step 03: Reconnect to the datalogger's Bluetooth.

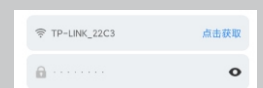


Connect to the home router and configure the network

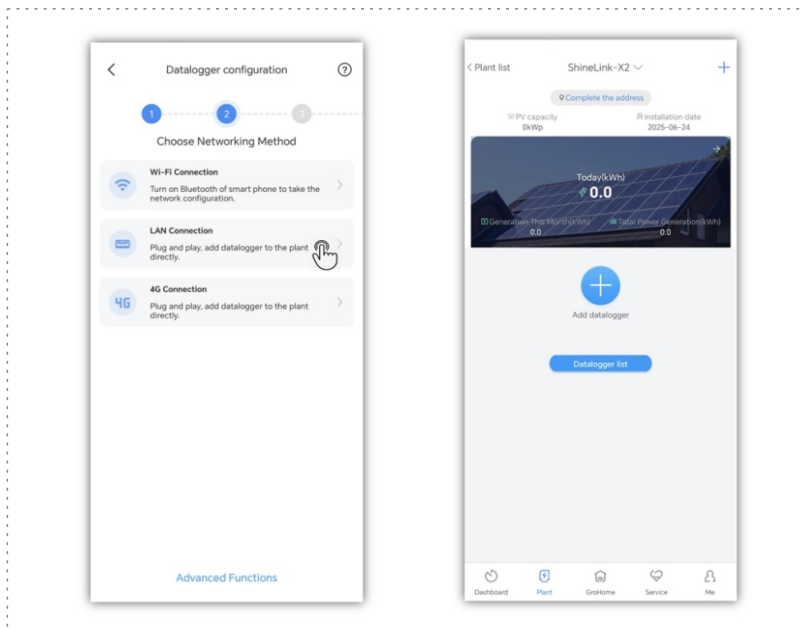
Step 01: After the Bluetooth connection is set up, enter the configuration page, select your target router and enter the password.  
Step 02: Once the WiFi configuration is complete, please return to the "Plant" page.



Configuration is successful, then return to the "Plant" page

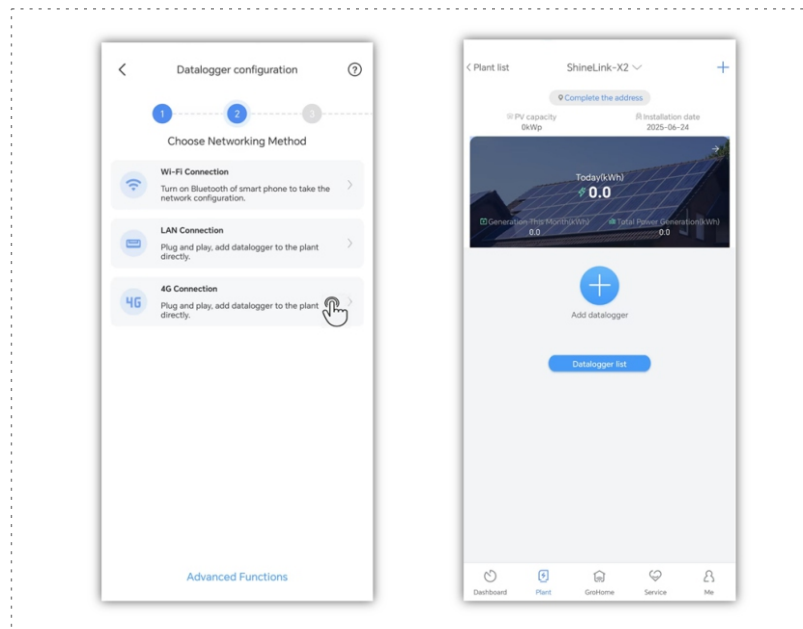


## 2. LAN Connection



Select "LAN Connection", then add the datalogger to the plant

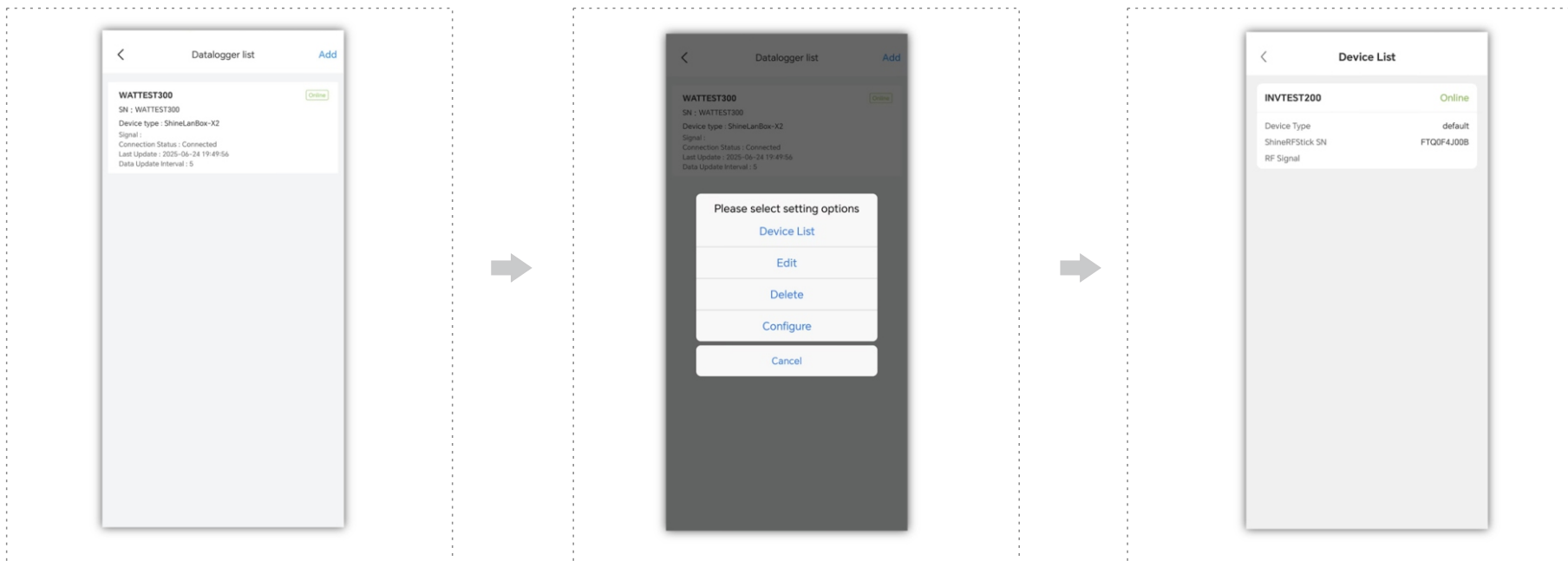
## 3. 4G Connection



Select "4G Connection", then add the datalogger to the plant

## Step7. Check the datalogger Status

1. Enter the "Plant" page and click the "+" icon to check the datalogger list;
2. From there, you can edit, delete or configure the datalogger, and you can click the "Device List" to check the paired ShineRFStick-X2 slave device list.



## Appendix I. Troubleshooting

### 1. Troubleshooting based on the indicator status

#### > ShineRFStick-X2 Troubleshooting

| LED status             | Operating status   | Troubleshooting  |
|------------------------|--|--|
| Off                    | The datalogger failed to communicate with the PV device                          | 1. Check if the datalogger has been properly connected to the USB port on the PV device.<br>2. Unplug and replug the datalogger.<br>3. Connect the datalogger to another PV device to check whether the datalogger or the PV device is faulty. |
| Steady White           | Initialized or in the state of restoring factory default settings                | Wait for 30S initialization to complete.   |
| Steady Yellow          | In Bluetooth mode  | Please continue to follow the APP instructions to set up the process. If you do not need to set it up, please click the button to exit this mode.  |
| Yellow Flashing Slowly | In RF pairing mode   | Please follow the APP instructions of the ShineLanBox-X2 to add the device, no pairing is required, double-click the bottom button to exit pairing mode.   |
| Yellow Flashing        | In upgrade mode  | Please wait patiently for the upgrade to complete.   |
| Steady Red             | The ShineLanBox-X2 is not connected and the photovoltaic device is not connected | Please continue to follow the APP instructions of the ShineLanBox-X2 to add the device.  |
| Steady Green           | The photovoltaic equipment is not connected                                      | Please check whether the datalogger and inverter are connected normally. If the phenomenon persists after repeated plugging and unplugging, please contact Growatt customer service.   |
| Steady Blue            | The ShineLanBox-X2 is not connected  | Please connect the ShineLanBox-X2 according to the pairing process.  |
| Blue Flashing          | Unable to connect to ShineLanBox-X2, connected photovoltaic device               | 1. Please check if the host is powered on/online.<br>2. Please check whether the leader/follower is within the recommended distance range.<br>3. If it appears repeatedly, please contact Growatt customer service.                            |
| Blue Flashing Slowly   | Connected to ShineLanBox-X2, connected photovoltaic device                       | The ShineRFstick-X2 is in normal working mode.   |

**Attention:** Slow flash frequency 1S, flash frequency 0.5S

➤ ShineLanBox-X2 Troubleshooting

| LED status                | Operating status   | Troubleshooting  |
|---------------------------|--|--|
| Steady White              | Initialized or in the state of restoring factory default settings        | Wait for initialization to complete.   |
| Steady Yellow             | In Bluetooth mode  | Please continue to follow the APP instructions for networking/sub-device addition process. If networking/sub-device addition process is not required, please click the button to exit this mode. |
| Yellow Flashing Slowly    | RF pairing mode and synchronize Bluetooth                                | Please continue to follow the APP instructions to add sub-devices, without RF pairing, double-click the button to exit pairing mode.   |
| Yellow Flashing           | in Bluetooth local upgrade mode  | Please wait patiently for the upgrade to complete.   |
| Steady Red                | Not connected to router, not connected to PV/RF sub-devices              | Please continue to follow the APP instructions for networking and sub-device addition process.   |
| Steady Green              | Not connected to PV/RF sub-devices                                       | Please continue with the sub-device addition process according to the APP instructions.  |
| Green Flashing            | Connect the photovoltaic/RF sub-devices link is abnormal                 | Please check the ShineRFStick-X2 indicator light to judge the abnormal situation.  |
| Steady Blue               | Connected router, not connected server, connected PV/RF sub-devices      | 1. Check if the router can access the internet.<br>2. Does the router restrict the server and port number? The datalogger needs to use port 7006.  |
| Blue-green super flashing | The 4G module is not working properly in 4G networking                   | Please check if the 4G module is abnormal.   |
| Blue-green flashing       | Abnormal SIM card reading in 4G networking                               | Please check if the SIM card is inserted.  |
| Blue-green Slowly         | Not connected to network operator in 4G networking                       | Please check if there is any data or overdue charges on the SIM card.  |
| Steady Blue-green         | Not connected server in 4G networking                                    | Please check if there is any data or overdue charges on the SIM card.  |
| Blue Flashing Slowly      | Connected router, connected server, connected photovoltaic/RF sub-device | In normal working mode, slow flash times represent the number of connections of the device.  |

| LED status    | Operating status                                 | Troubleshooting   |
|---------------|--|---|
| Blue Flashing | Not connected router, connected PV/RF sub-device | <ol style="list-style-type: none"> <li>WiFi wireless connection method                             <ol style="list-style-type: none"> <li>(1) Check if the router account password filled in during the configuration process is correct.</li> <li>(2) Check the router:                                     <ol style="list-style-type: none"> <li>a) The wireless name of the router should be composed of English and numbers, and special characters are not supported: (""...-€¥).</li> <li>b) For security reasons, please use an encrypted wireless network.</li> <li>c) Networks that do not support secondary authentication and bridged wireless signals.</li> </ol> </li> <li>(3) If a static IP Address is used, determine whether the IP Address is consistent with the router setting network segment.</li> </ol> </li> <li>LAN wired connection method                             <ol style="list-style-type: none"> <li>(1) Ethernet cable not connected.</li> <li>(2) Restart the router and confirm that the router's automatic IP allocation function is available.</li> <li>(3) If a static IP Address is used, determine whether the IP Address is consistent with the router setting network segment.</li> </ol> </li> </ol> |

**Attention:**

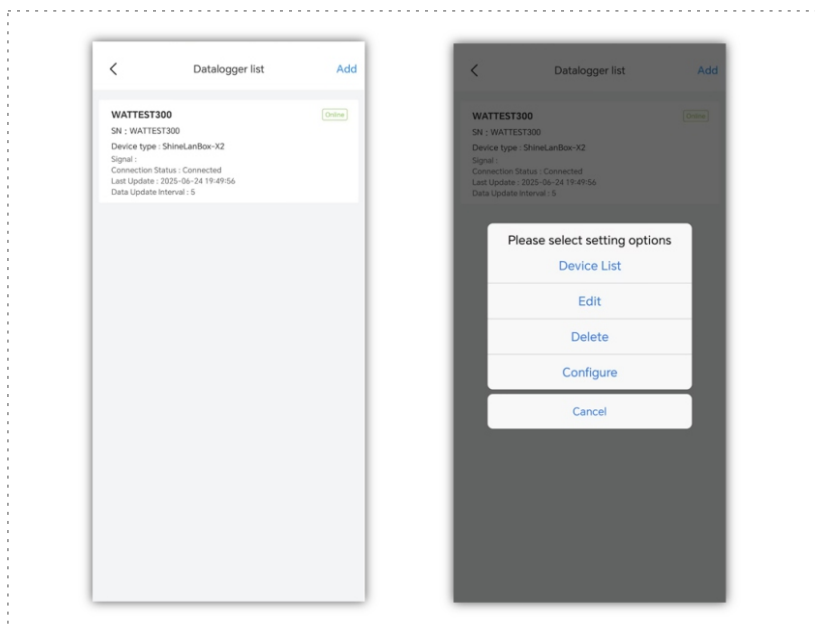
1. If the ShineLanBox-X2 fails to connect to the router after powering on, it will automatically enter Bluetooth mode.
2. When Bluetooth is turned on, there is no data interaction with the APP, and Bluetooth will be automatically turned off after 30 minutes.
3. When a single RF device is connected, the slow flash frequency is 1S. When multiple RF devices are connected, the number of flashes during slow flash represents the number of RF slave devices connected.
4. When the Bluetooth mode is turned on, the indicator light prioritizes displaying the yellow light and is always on. Please check the network/sub-device configuration in the APP. If you need to view ShineLanBox-X2 device information through the indicator light, click the button to exit the Bluetooth mode.

**2. Button description**

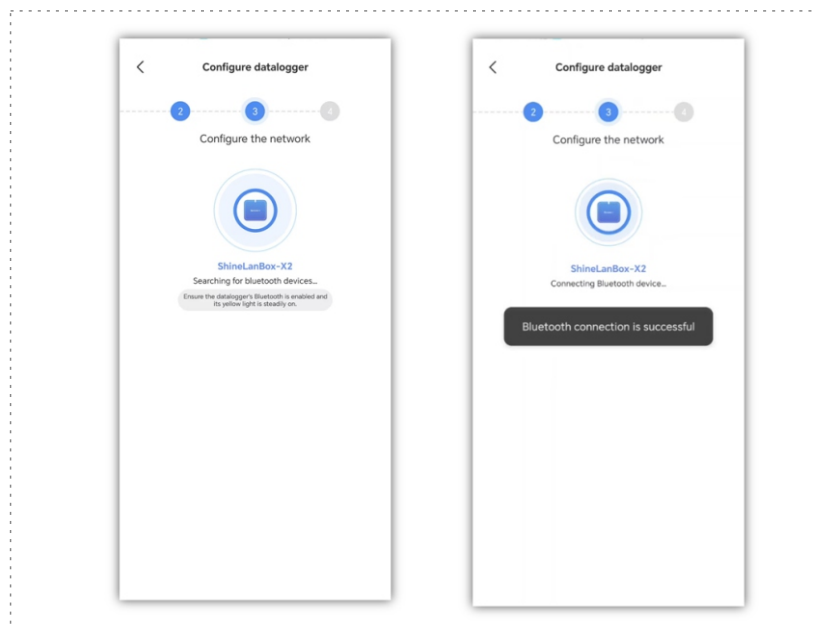
| Operation  | Description  |
|--|--|
| Click the button(the indicator light will turn steady yellow)          | ShineLanBox-X2/ShineRFStick-X2 enter Bluetooth mode.If you not need this mode,click the button to exit.  |
| Double click the button(the indicator light will flash yellow)         | ShineLanBox-X2/ShineRFStick-X2 enter the RF pairing mode. Please follow the instructions of the RF host APP to add devices, if no pairing is required, double-click the button to exit pairing mode. |
| Click and hold the button for 6s until the indicator light turns white | Restore the ShineLanBox-X2/ShineRFStick-X2 to factory default settings.  |

## Appendix II . Advanced settings (for commissioning, professionals only)

**1. Access the "Advanced settings" page**



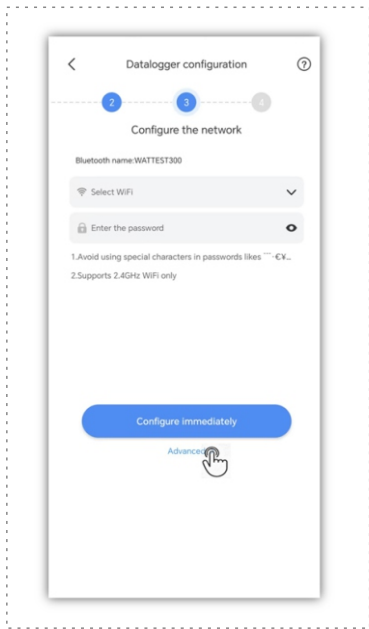
Tap your target datalogger and then tap "Configure"



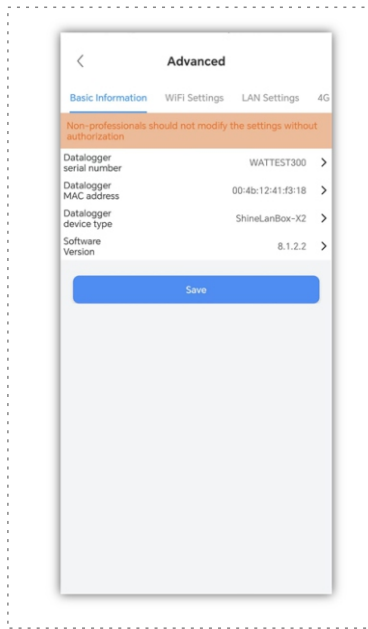
Enter the search Bluetooth mode and connect to the Bluetooth with the name of the datalogger's SN

- Note:** Before tapping "Configure", make sure to:
1. Enable Bluetooth on your phone;
  2. Ensure the Datalogger is in Bluetooth mode, as indicated by the steady yellow light. If necessary, press the button to activate this mode.

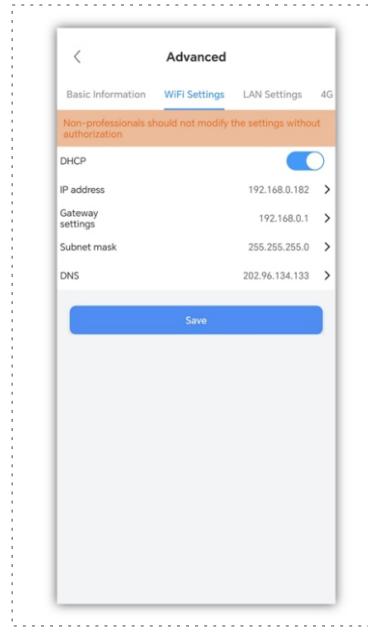
## 2. Static IP configuration



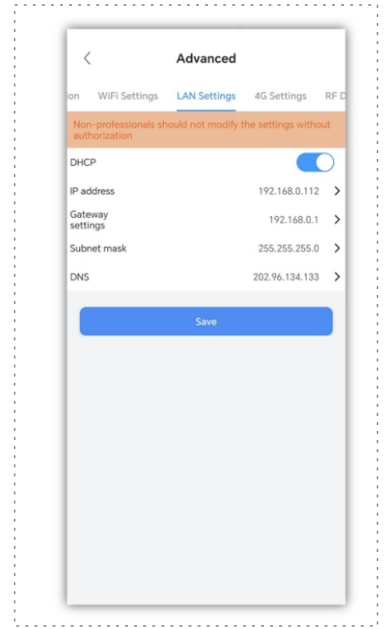
Access "Advanced settings"



Advanced settings page



WiFi static IP configuration



LAN static IP configuration

On the "Datalogger configuration" page, tap "Advanced" at the bottom to access advanced settings.

**Notice:** Advance settings can only be operated by professionals. Otherwise, the datalogger might fail to work properly.

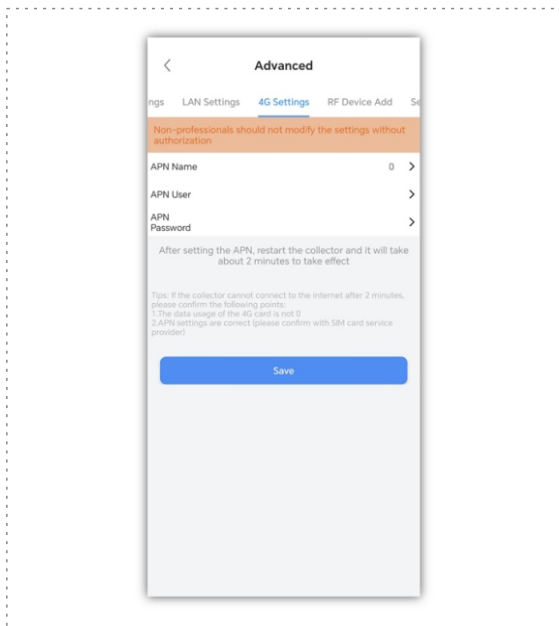
**Note:** Only perform this step when you need to configure the static IP

Step 01: Access WiFi configuration or LAN configuration page.

Step 02: Disable DHCP .

Step 03: Enter the target static IP, gateway, mask and DNS, then click "Save".

## 3. 4G APN configuration



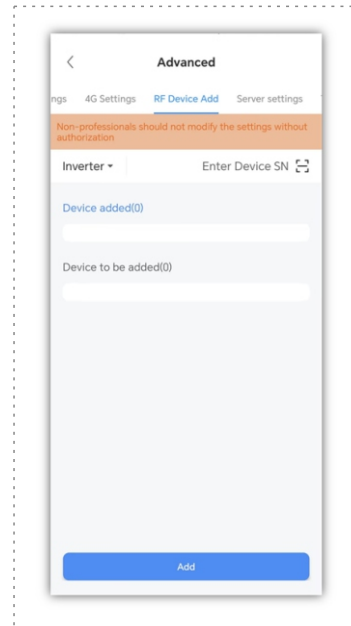
4G APN configuration

**Note:** Only perform this step when you need to configure the APN.

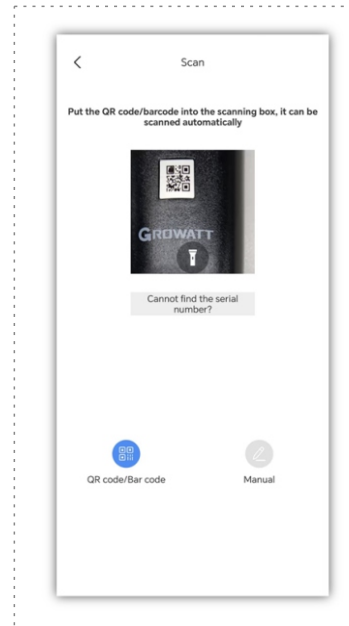
Step 01: Fill in the correct APN information.

Step 02: After setting the APN, restart the collector and it will take about 2 minutes to take effect.

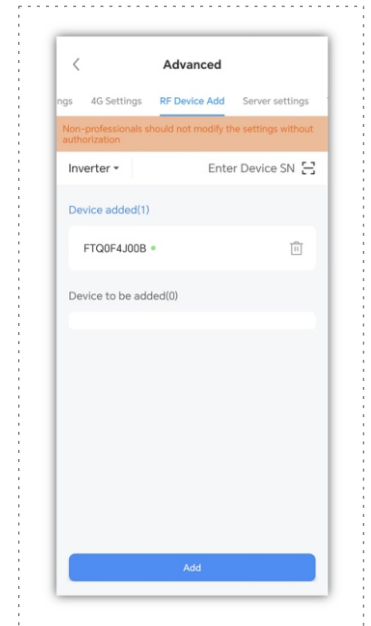
## 4. Add a new RF Device



RF Device Add Page



Scan the QR code



Add RF Device successfully

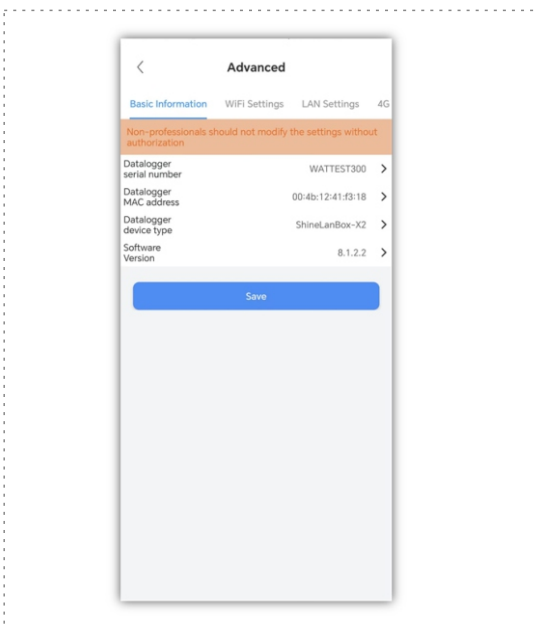
**Note:** Before adding RF devices, make sure to:

①ShineRFStick-X2: Double-click the bottom button, the indicator light flashes yellow.

Step 01: After scanning, the RF Device's SN appears in the list of devices to be added, and multiple RF devices can be added at the same time.

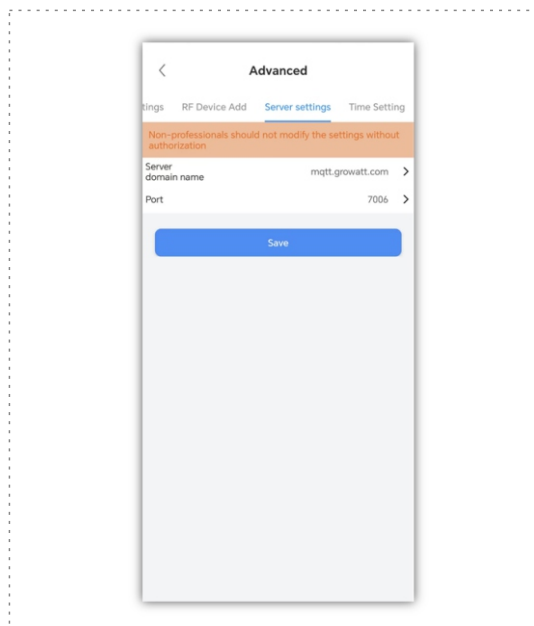
Step 02: Click the Add button and after the pairing is successful, the added device will show a green dot always on.

## 5. Parameter settings



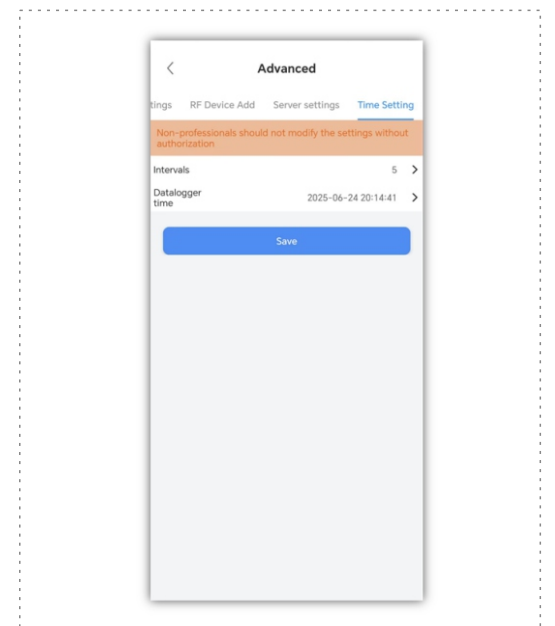
Basic information page

You can view information, including the datalogger's SN and version number.



Server configuration page

You can check the datalogger's server domain name, IP and network port.



Time setting page

You can view the datalogger's sampling interval and the current time.