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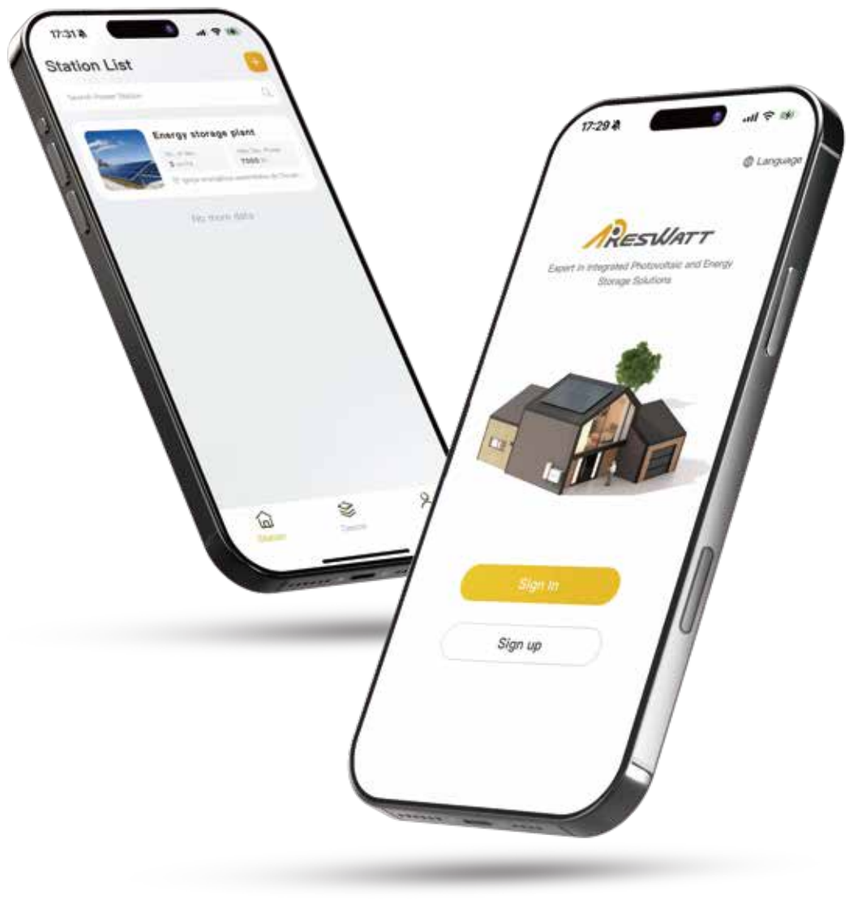


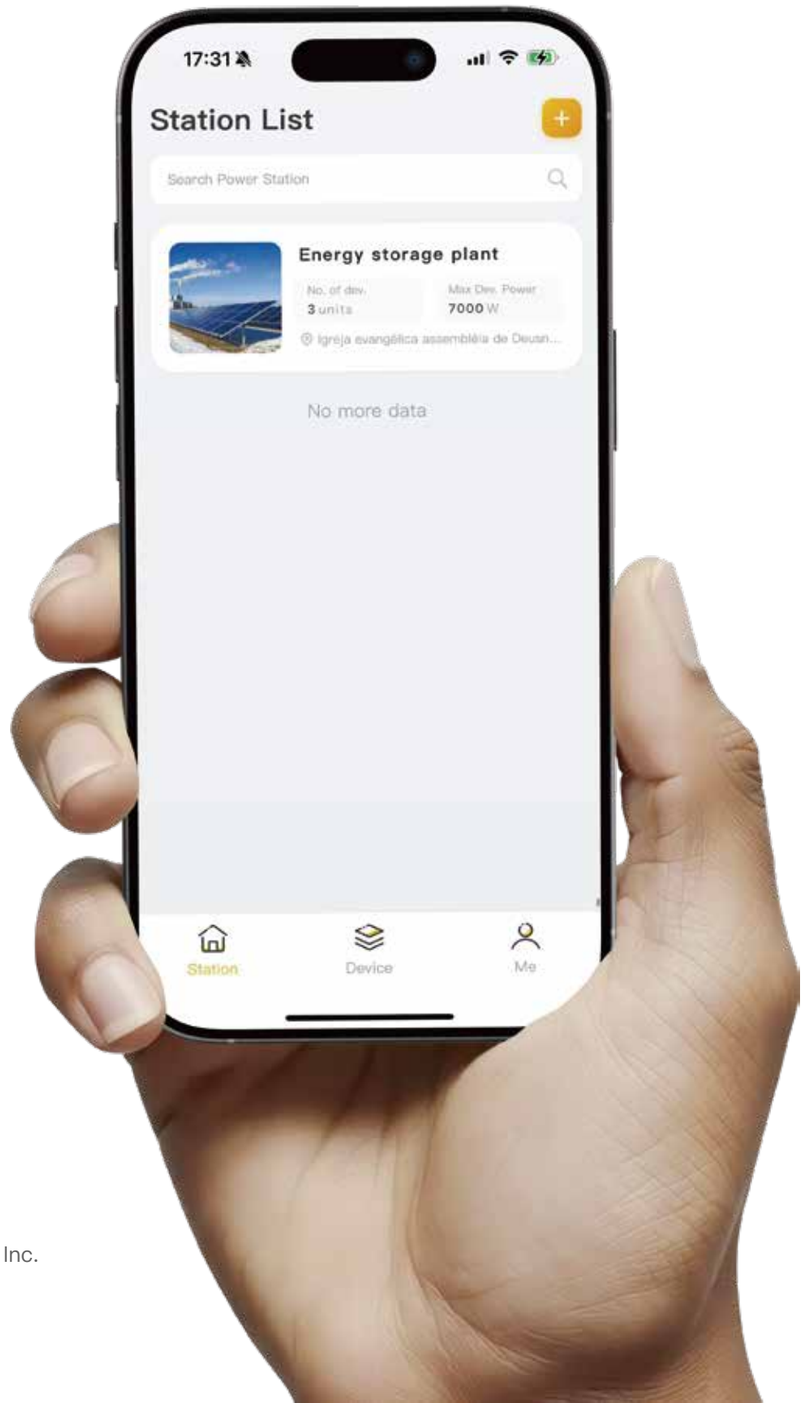
Ares Cloud

User Manual

_Applicable to V3.3.03

Ares Cloud

Ares Cloud is a cloud-based intelligent power station management application under Areswatt New Energy Inc. To facilitate users in achieving remote online management of power stations, Ares Cloud was developed based on advanced application development capabilities and hardware network integration capabilities. Users can directly implement power station remote monitoring, management, and data statistical analysis functions on mobile devices.



For more product and brand details, please visit www.areswatt.com

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Contents

Welcome to Ares Cloud

1.Getting Started

1.1 Application Download

1.2 System Requirements

1.3 Permission Settings

2.Account Management

2.1 Register

2.2 Login

2.3 Password Recovery

3.Role Type

3.1 Role Definition

3.2 Permission Description

4. Integrator Use

4.1 Power Station Management

4.2 Device Management

4.3 End-User Management

4.4 Device List

5. End-User Use

5.1 View Authorized Power Stations

5.1 Device Viewing

6. General

6.1 Me

6.2 Delete Account

FAQ

Support

Welcome to Ares Cloud

Thank you for choosing the Ares Cloud intelligent photovoltaic management system.
This guide will help you quickly get started with the application, easily manage your photovoltaic power stations,
and achieve intelligent and efficient energy management.

1. Getting Started

1. 1 App Download

The Ares Cloud App is now available on Google Play Store and Apple App Store. Users can access the corresponding app store based on their mobile operating system to download.
If you are unable to obtain the Ares Cloud application from the app store in your region, please visit www.areswatt.com and go to the 【Local Download】 or 【App Store】 section to obtain the download link.
You may also contact your dedicated technical consultant to obtain the app download link.
⚠ Special Reminder:
Before the official installation, please scan the QR code to download the official Ares Cloud power station management App in order to bind microinverter products for energy monitoring and management functions.

1. 2 System Requirements

The Ares Cloud App is compatible with Android 7.0 and above. For the best experience, Android 9.0 or higher is recommended.

1. 3 Permission Settings

To ensure Ares Cloud operates correctly, the following permissions must be enabled upon first use:

- Wi-Fi: for device network connection and data transmission
- Bluetooth: for device search and pairing
- GPS Location: for automatic positioning of the power station address

1. 3.1 Permission Settings Steps:

1. Open the「Settings」on your phone
2. Find「App Management」or「Apps & Permissions」
3. Find and tap「Ares Cloud」
4. Enter「Permission Management」and ensure that Wi-Fi, Bluetooth, and location permissions are enabled

When you open the app for the first time after installation, the system will automatically display a permission request dialog. Please tap「Always Allow」or「Allow While Using」to ensure the app operates normally.

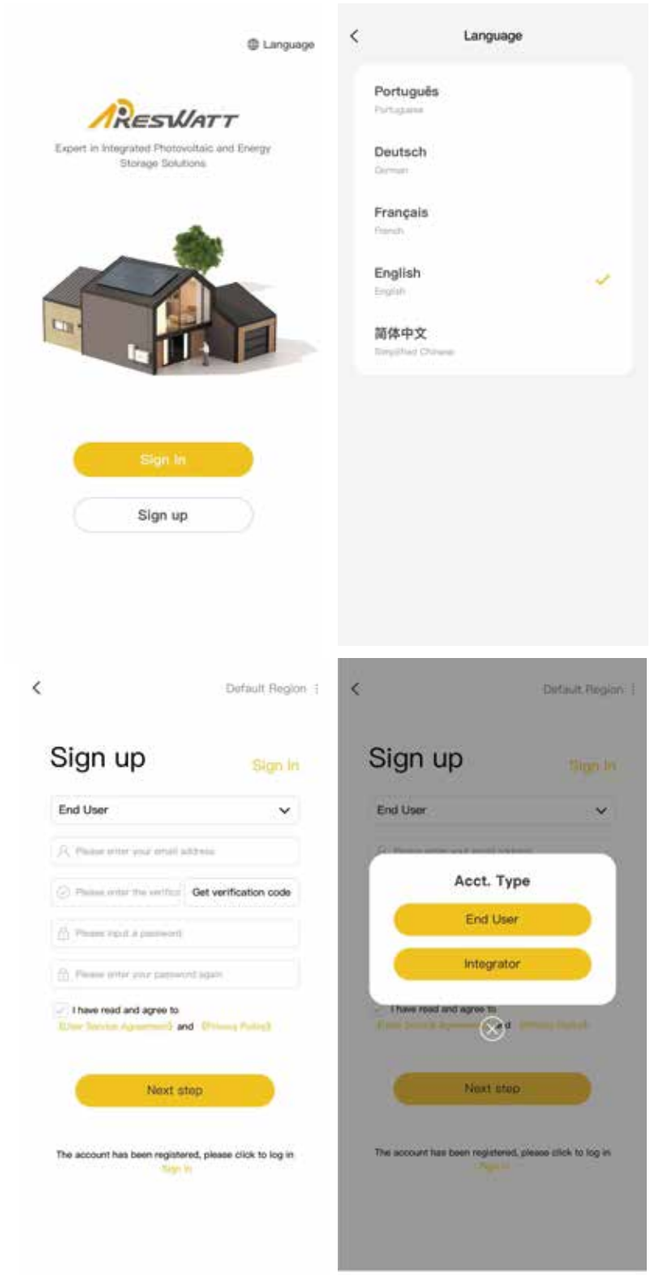


2. Account Management

2.1 Sing Up

To use Ares Cloud for the first time, you need to register an account:

1. On the login screen, tap the「Register」button
2. Select the corresponding role (Important) (please refer to Section 3. Permission Description):
   – End User: if you are the final user of the photovoltaic power station and only need to view power station data, select this role
   – Integrator: if you are responsible for installing and managing photovoltaic power stations, need to create power stations, add devices, and authorize clients, select this role
3. Enter a valid email address
4. Set a password (please use a password of 8 or more characters containing uppercase letters, lowercase letters, and numbers)
5. Enter the password again for confirmation
6. Tap "I have read and agree to the 《Service Agreement》 and 《Privacy Policy》"
7. Tap Next, check your email, and obtain the verification code
8. Enter the verification code received in the app
9. Tap the「Sign Up」button to complete account creation



❗Note:

- The same email can only be registered once
- The verification code is valid for 1 minute; please enter it promptly
- If you do not receive the verification code, check your spam folder or tap「Resend」
- The role cannot be changed after selection; please choose carefully according to your actual usage needs

💡 Tips:

① The language selector in the upper corner of the launch page allows you to switch languages

② The「Default Region」option in the upper right corner of the registration screen is a reserved function; simply select the default region

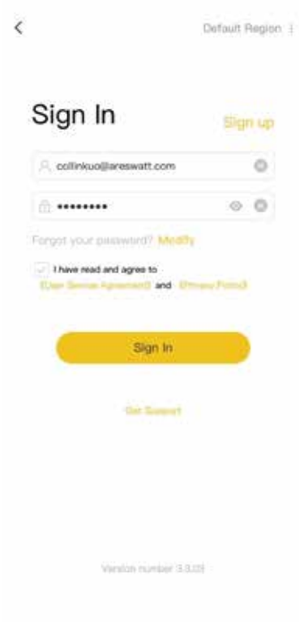
③ If you encounter any issues during registration, tap「Technical Support」for help

2.2 Login

After successful registration, you can log in to your account with the following steps:

1. Open the Ares Cloud app
2. Enter your email address on the login screen
3. Enter your password
4. Tap the「Login」button

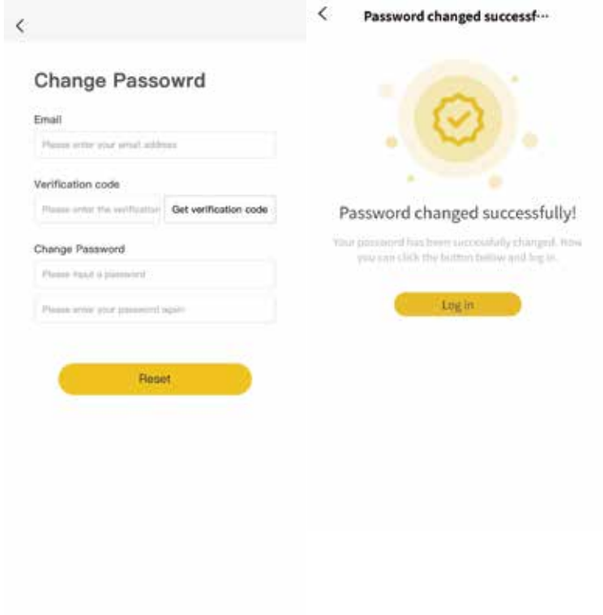
If you encounter other issues during the login process and are unable to log in, please tap【Technical Support】at the bottom of the page to contact us for assistance.



2.3 Password Recovery and Change

If you forget your password, you can reset it with the following steps:

1. On the login screen, tap「Forgot Password? Change」
2. Enter the email address used during registration
3. Tap the「Get Verification Code」button to receive the code
4. Enter the verification code received in the app
5. Set a new password
6. Enter the new password again for confirmation
7. Tap the「Reset」button to complete the password change



3. Permission Description

3.1 Role Definition

Ares Cloud has been designed with two user roles for different usage scenarios, each with different operating permissions:



End User

The final user of the photovoltaic power station, typically the owner of a residential or commercial building.

Main permissions:

✓ View authorized power station information

✓ View device operating data

✓ View generation and revenue statistics

☒ Cannot create, edit, or delete power stations

☒ Cannot add or delete devices

☒ Cannot associate other users

Applicable scenarios: Home photovoltaic system owners, commercial building owners, and other end users

Integrator

Professional personnel or company responsible for photovoltaic system installation, commissioning, and maintenance.



Main permissions:

✓ Create and manage power stations

✓ Add and configure devices

✓ Edit and delete power station information

✓ Associate end user accounts

✓ Authorize power stations to end users

✓ View data of all power stations created by themselves

✓ Manage device configuration and maintenance

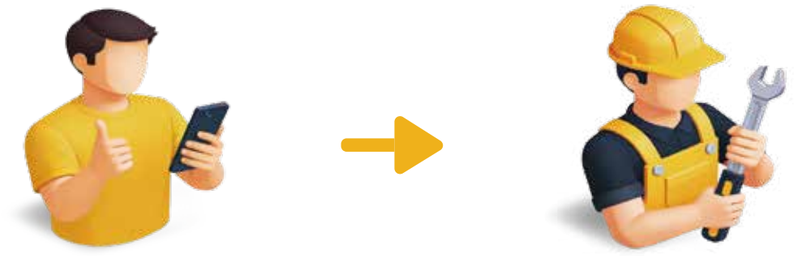
Applicable scenarios: Photovoltaic system integrators, installation companies, operation and maintenance service providers

3.2 Permission Description

According to different usage scenarios, the operating permissions of the two user roles can be presented in the following comparison table:

Feature Module	End User	Integrator
Power Station Management		
Create power station	☒	✓
Edit power station information	☒	✓
Delete power station	☒	✓
View power station list	✓	✓
View power station details	✓	✓
User Management		
Associate end user	☒	✓
Cancel association	☒	✓
Device Management		
Add device	☒	✓
Delete device	☒	✓
Device network configuration	☒	✓
View device details	✓	✓
Modify device name	✓	✓
Wi-Fi settings	✓	✓

Feature Module	End User	Integrator
Data View		
Real-time generation data	✓	✓
History	✓	✓
Generation trend	✓	✓
Revenue statistics	✓	✓
Device operating status	☒	✓
Notifications and Messages		
Receive device messages	☒	✓



View Permission

Management Permission

Notes:

1. After the integrator creates a power station and adds devices, they can choose to authorize the power station to end users
2. The system will automatically synchronize the integrator's account to the dealer's backend
3. End users can only see authorized power stations and cannot see information about the integrator's other clients



Integrator Operations Guide

The integrator has complete power station and device management permissions.
This chapter describes in detail all operational functions of the integrator.

Applicable role: Integrator

4. Integrator Use

4.1 Power Station Management

4.1.1 Power Station List

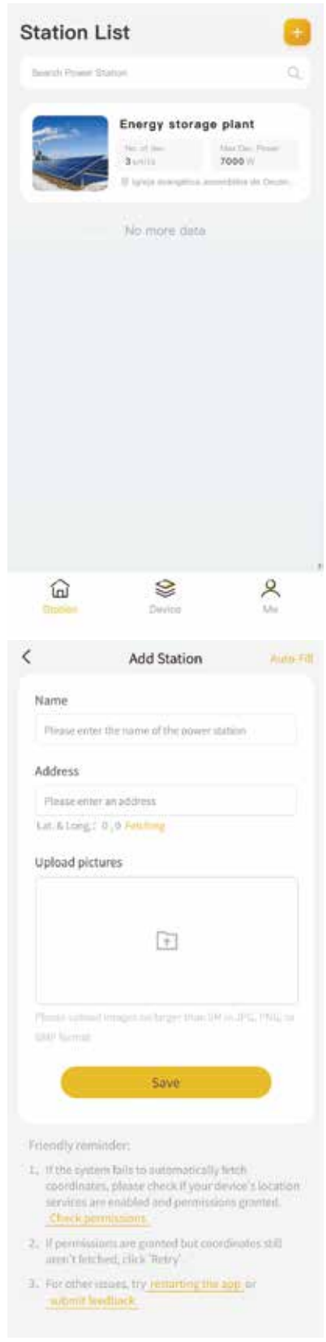
After successful login, the app's home page will display the power station list interface.

Power station list display information:

- Power station name
- Power station address
- Power station information (Number of devices, Max Device Power)
- Power station image Power

List operations:

- Use the search box at the top to quickly find a specific power station by name
- Pull down the screen to refresh power station data and obtain the latest status
- Tap a power station card to enter the details page



4.1.2 Create New Power Station

There are two ways to add your photovoltaic power station:

Method 1: Add New Power Station (Recommended)

Allows customization of the power station image, name, and address information

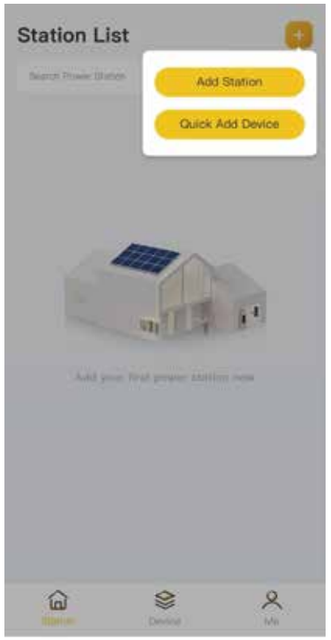
1. On the power station list interface, tap the + icon in the upper right corner
2. Select「Add New Power Station」
3. Enter the power station name (e.g.: Residential Rooftop PV, Factory PV System, etc.)
4. The system will automatically read your current location as the power station address; you can also adjust it manually
5. Tap the image upload area and select a photo of the power station

Method 2: Add Device Quickly

Quickly creates and configures the network using the system's default information

1. On the power station list interface, tap the + icon in the upper right corner
2. Select「Add Device Quickly」
3. The system will create the power station using the default image, name, and address information
4. The Bluetooth device search interface will open automatically





💡 Tip: It is recommended to use an easily identifiable name for the power station to facilitate subsequent management, especially when you have multiple power stations.

4.1.3 Edit Power Station Information

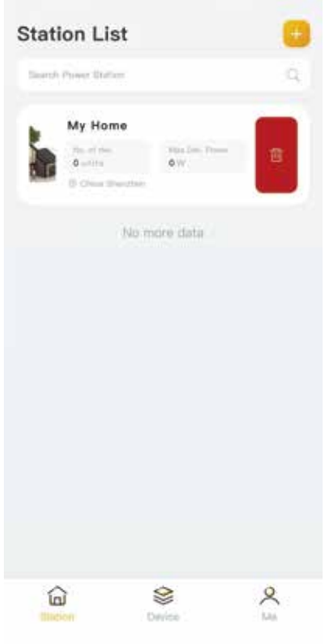
Modify power station information:

1. In the power station list, tap the power station you wish to edit
2. Enter the power station details page and tap the edit button in the upper right corner
3. You will be redirected to the power station basic information editing page
4. Modify the information to be updated (name, address, photo)
5. Tap the「Save」button to apply the changes

Delete power station:

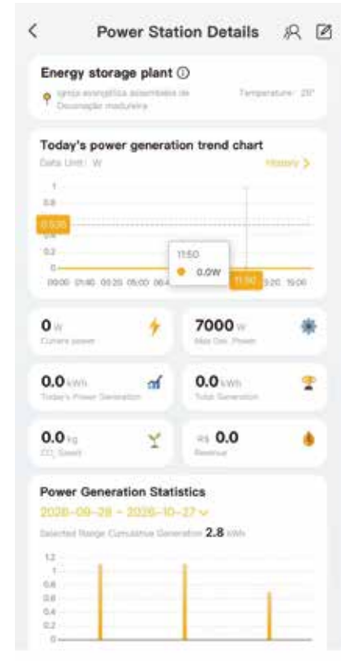
1. On the power station list page, swipe left on the power station to be deleted
2. The system will display a confirmation dialog
3. Tap the「Confirm」button to execute the deletion operation





❗ Warning: The power station deletion operation will also delete all devices and historical data associated with that power station, and cannot be recovered. Please proceed with caution!

4.1.4 Power Station Details



The data displayed on the power station details interface are:

a. Weather

Real–time weather conditions, temperature, and location of the power station.

b. Today's Power Generation Trend Chart

Displays the real–time power generation trend of the power station for the current day

c. Current Power

Real–time generation power of the power station

d. Max Dev Power

Current total generation power of the station devices

e. Total Device Power

Total power of devices bound to the current power station

f. Today's Power Generation

Total generation of the power station for the current day

g. Total Generation

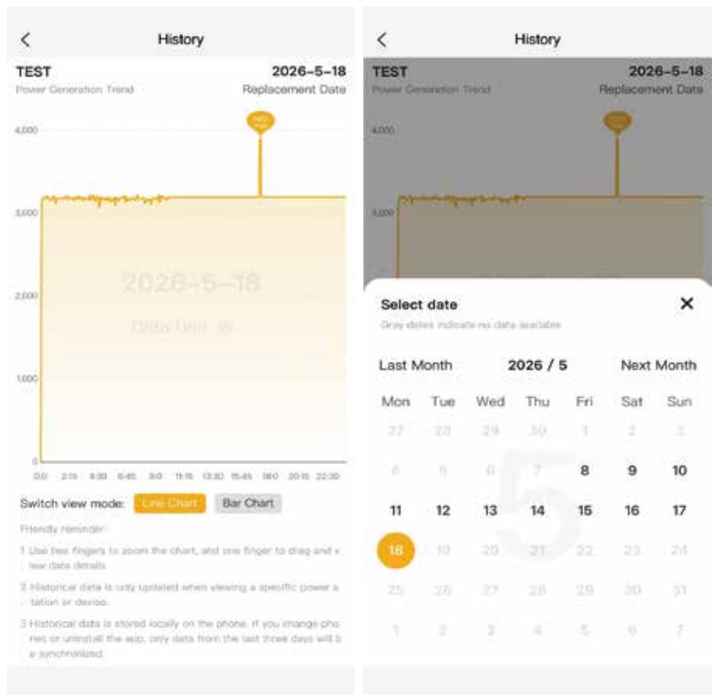
Accumulated energy generated by the power station

h. Carbon Reduction

Accumulated carbon emission reduction of the current power station

i. Revenue

Grid electricity revenue is automatically calculated based on the accumulated generation of the current power station



💡 Tip: Pull down the list to refresh power station data

Power Generation Statistics

– Displays the total energy generated by the current station. Tap to select a past time period and view the corre–sponding total energy generation data.

- To clear the cache, tap Clear Cache in the【Me Page】

i. Device List

Displays the number of microinverter devices bound to the current power station

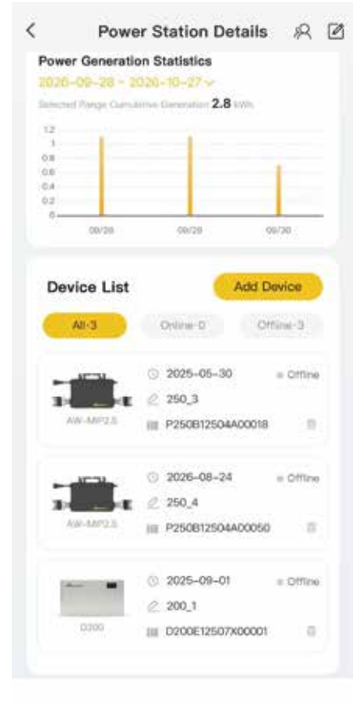
Tap the「Online」or「Offline」tag to filter devices in different states

Tap the delete icon to remove the corresponding device

Tap the corresponding device row to enter the device details interface

j. Add Device

Quickly add new microinverter devices

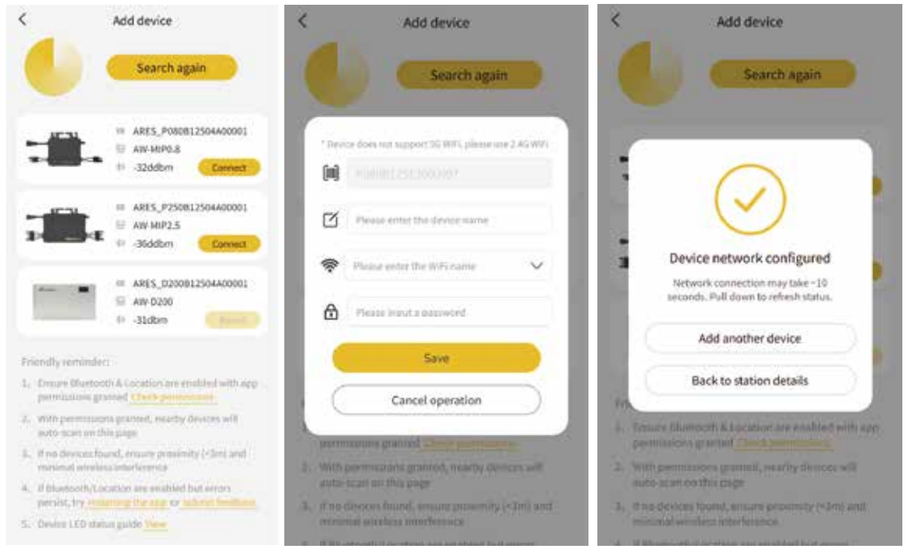


4.2 Device Management

4.2.1 Add Device

To add new photovoltaic devices (microinverters) to your power station:

1. On the power station details page, tap the「Add Device+」button
2. The system will automatically search for available Bluetooth devices nearby
3. Select the device you wish to add from the list
4. Enter the device network configuration interface
5. Automatically search for nearby Wi-Fi networks (sorted by signal strength)
6. (Tap the button next to the Wi-Fi name to automatically fill in the currently connected net-work)
7. Set the device name: used to distinguish devices, e.g.: Balcony Device / Rooftop Device
8. Tap the「Save」button to start device network configuration and complete the device addition



▲ Notes:

- Ensure the device is powered on and in a searchable state
- The device only supports the 2.4 GHz Wi-Fi band; connecting to a 5 GHz Wi-Fi or dual-band unified network may cause network configuration failure
- A device can only be bound to one power station; if you need to rebind it, please delete it from the original power station first
- During network configuration, ensure the distance between the phone and the device does not exceed 10 meters
- The Wi-Fi password is case-sensitive; please enter it accurately

4.2.2 Device Details

Tap the corresponding device in the device list to be redirected to the device details interface.

4.2.2.1 Device Status

The device status area displays the device's online status (tap the question mark icon in the upper right corner of the device image to view the device connection indicator light description):

- Online: device is operating
- Offline: device is powered off or faulty

The device image area displays the appearance of the currently bound device by default.

4.2.2. 2 Device Data

The device data area allows viewing of current device data in aggregate or by individual channel.

Summary:

Current device power: total generation power of all channels of the current device.

Accumulated energy: total generation of all channels of the current device.

Grid voltage: grid voltage to which the current device is connected

Frequency: generation frequency of all channels of the current device

PV:

PV power: generation power of the corresponding channel

Cumulative energy: Cumulative generation of the corresponding channel

PV voltage: PV voltage of the corresponding channel

PV current: PV current of the corresponding channel

Peak power: maximum generation power of the corresponding channel

💡 Tip: Pull down the list to refresh device data

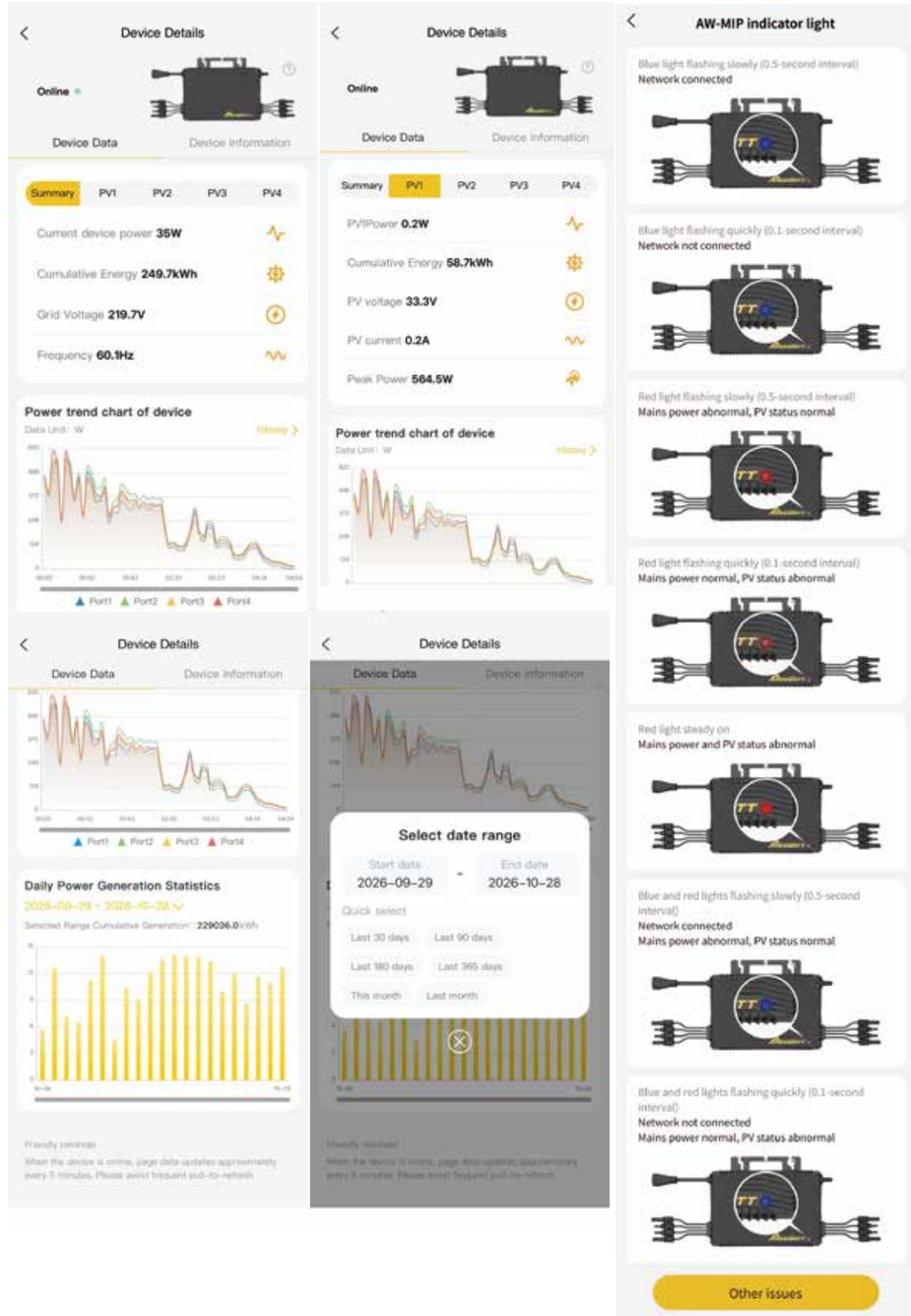
Power trend chart of device

Displays the power generation trends of all channels of the current device. Tap History to view the power generation trend for a previous date. Tap a PV channel to view data for that individual channel.

*Note: Historical data is unavailable if the device has just been bound for the first time or has no previous power generation records.

Daily Power Generation Statistics

Displays the total energy generation data of the current device. Tap to select a past time period and view the corresponding total energy generation data.



4.2.2.3 Device Information

Displays basic device information

Device nickname: current device nickname; tap to modify

Wi-Fi settings: device network configuration settings; connection must be performed near the device

Fault recovery time: sets the automatic restart time when the device encounters a fault (requires the device to be online, and a dealer-provided authorization code is required for the operation)

Operating status: detailed operating status of the device and each channel (used for fault diagnosis); tap Refresh to refresh the status

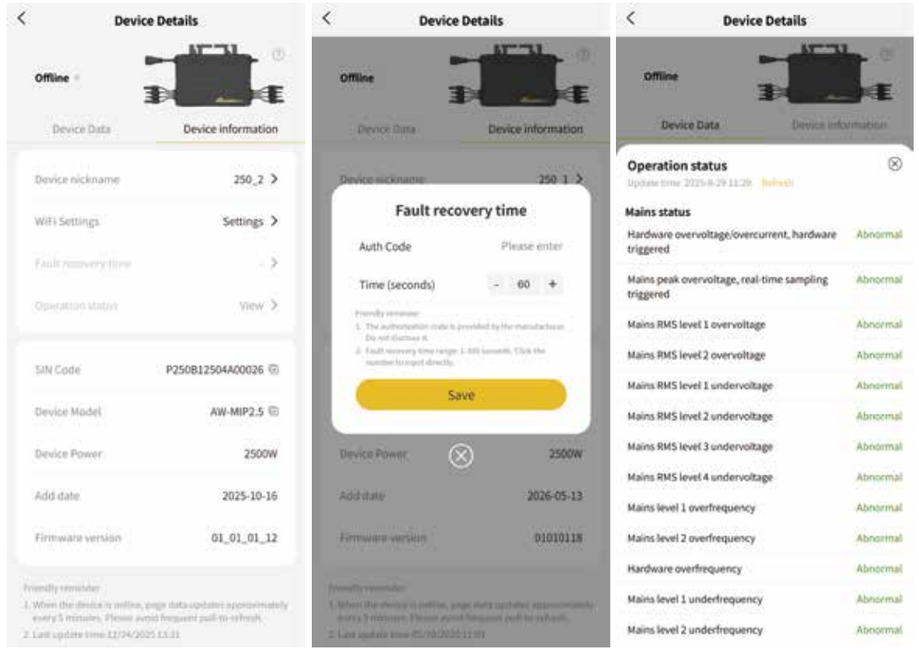
SN code: factory default SN code of the device; tap to copy

Device model: factory default model name of the device; tap to copy

Device power: default power of the device

Add date: device addition time

Firmware version: device firmware version number



4.2.2.4 Delete Device

To remove devices that are no longer in use:

1. In the device list interface, find the device to be deleted
2. Tap the delete button icon
3. In the confirmation dialog that appears, tap「Confirm」to complete the deletion

❗Warning: After the device is deleted, historical data will be automatically cleared and cannot be recovered.

Please proceed with caution!



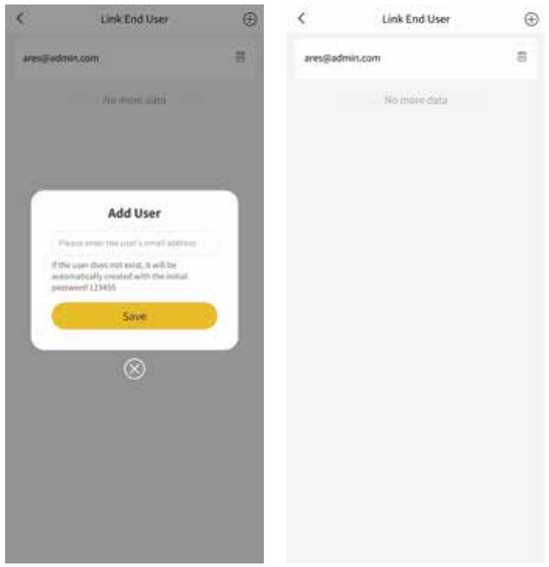
4.3 End User Management

4.3.1 Link End User

The integrator can authorize created power stations to end users, allowing clients to view their own power station data.

Link steps：

1. Enter the power station details page
2. Tap the user icon in the upper right corner
3. Enter the「Link End User」page
4. Tap the + icon
5. Enter the end user's email account
6. Tap「Confirm」to complete the link



Link notes:

- Existing account: if the entered email is already registered as an end user, the account will be associated directly
- New account: if the entered email is not registered, the system will automatically create an end user account
- After association, the end user can view the power station information and all device information under the power station in their account
- One power station can be associated with multiple end users
- End users can only view data and cannot perform any editing or deletion operations



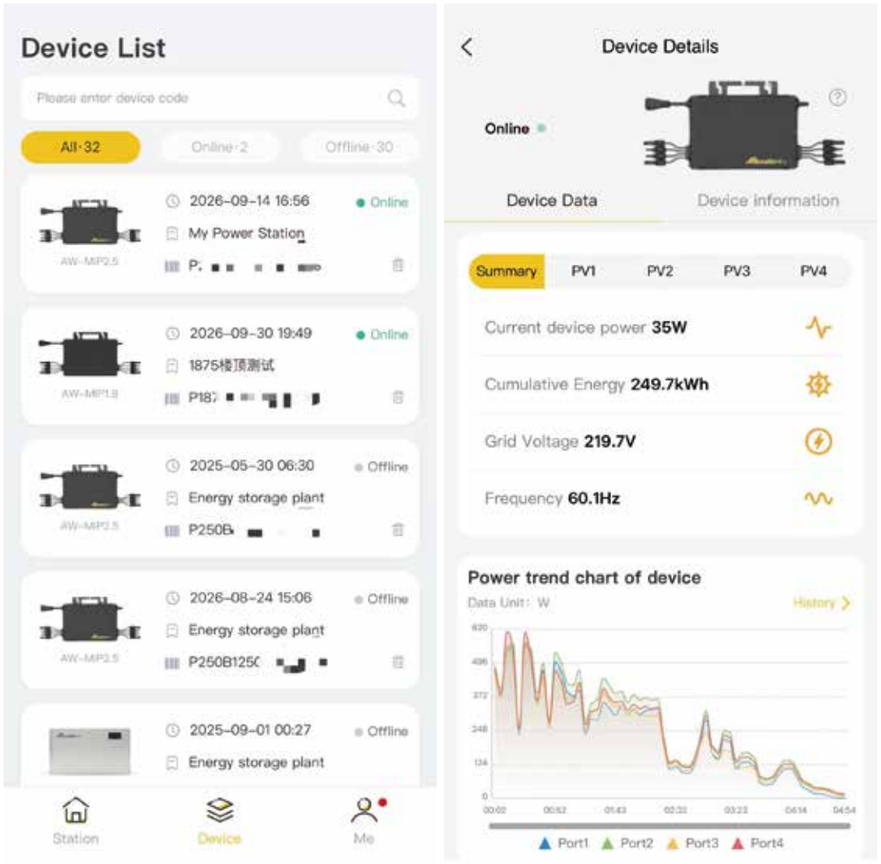
4.3.2 Cancel Link

1. On the「Associate End User」page, find the user whose association you wish to cancel
2. Tap the delete button
3. Confirm the cancellation of the association

⚠Note: After deleting the links, the user's account still exists; the current power station will simply no longer be dis-played in the user's power station list.

4. 4 Device List

- The Device List on the Home page displays all devices associated with the power station linked to the current account.
- Tap a device card to open the corresponding Device Details page.
- Tap [Online/Offline] to view the details of online or offline devices.





End User Operations Guide

The end user can view the power station and device information authorized by the integrator, but cannot perform creation, editing, or deletion operations.

Applicable role: End User

5. End User Use

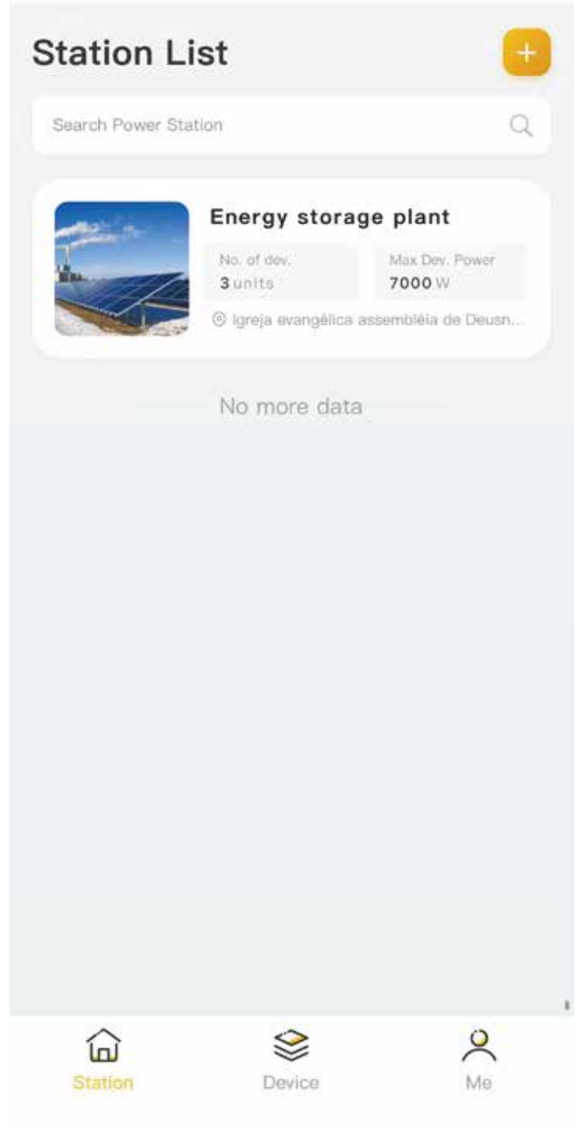
5.1 View Authorized Power Stations

5.1.1 Power Station List

After login, the home page will display all power stations authorized by the integrator.

Display content:

- Power station name
- Power station address
- Basic power station information (Number of devices, Max Device Power)
- Power station image



List operations:

- Use the search box at the top to quickly find a power station
- Pull down to refresh and obtain the latest data
- Tap a power station card to enter the details page

⚠As a regular user, you cannot perform the following operations:

- ☒ Cannot edit power station information
- ☒ Cannot delete the power station
- ☒ Cannot add or delete devices
- ☒ Cannot modify device configurations

5.1.2 Power Station Details



The data displayed on the power station details interface are:

a. Weather

Real–time weather conditions, temperature, and location of the power station.

b. Today's Power Generation Trend Chart

Displays the real–time power generation trend of the power station for the current day, Tap History to view the plant's power generation trend for a previous date.

c. Current Power

Real–time generation power of the power station

d. Max Dev Power

Current total generation power of the station devices

e. Total Device Power

Total power of devices bound to the current power station

f. Today's Power Generation

Total generation of the power station for the current day

g. Total Generation

Accumulated energy generated by the power station

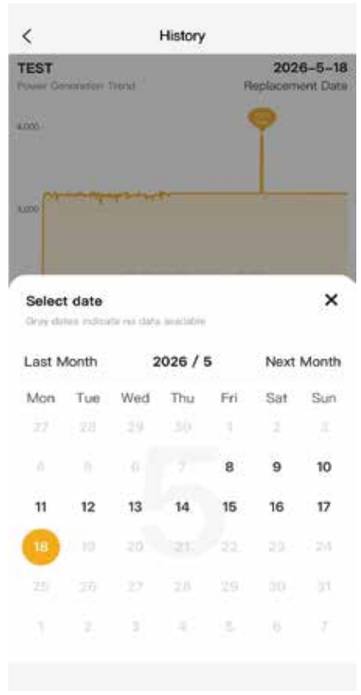
h. Carbon Reduction

Accumulated carbon emission reduction of the current power station

i. Revenue

Grid electricity revenue is automatically calculated based on the accumulated generation of the current power station





💡 Tip: Pull down the list to refresh power station data

Power Generation Statistics

– Displays the total energy generated by the current station. Tap to select a past time period and view the corre–sponding total energy generation data.

- To clear the cache, tap Clear Cache in the【Me Page】

5.2 Data View

5.2.1 Device Details

Tap the corresponding device in the device list to be redirected to the device details interface.

5.2.1.1 Device Status

The device status area displays the device's online status (tap the question mark icon in the upper right corner of the device image to view the device connection indicator light description):

- Online: device is operating
- Offline: device is powered off or faulty

The device image area displays the appearance of the currently bound device by default.

5.2.1.2 Device Data

The device data area allows viewing of current device data in aggregate or by individual channel.

Aggregate:

Current device power: total generation power of all channels of the current device.

Cumulated energy: total generation of all channels of the current device.

Grid voltage: grid voltage to which the current device is connected

Frequency: generation frequency of all channels of the current device

PV:

PV power: generation power of the corresponding channel

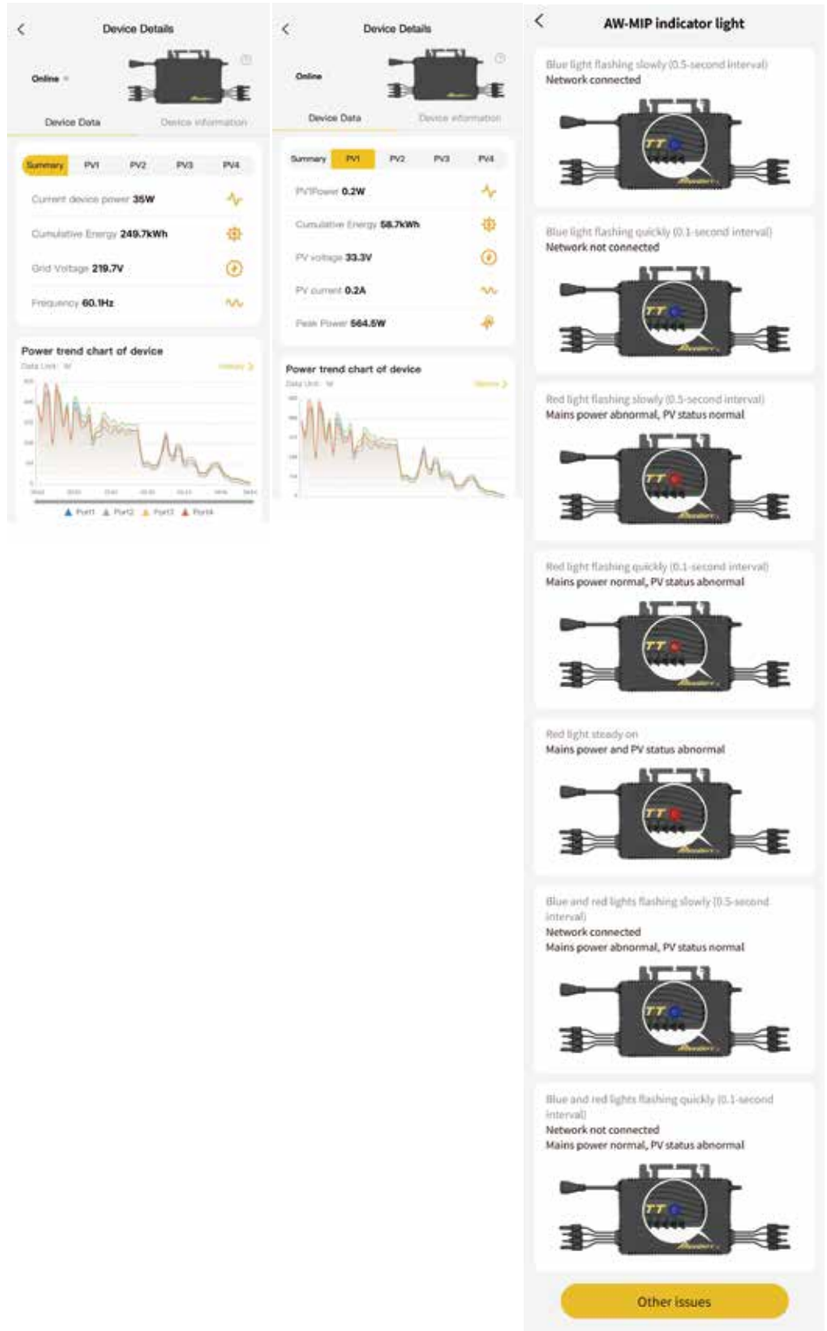
Cumulated energy: Cumulated generation of the corresponding channel

PV voltage: PV voltage of the corresponding channel

PV current: PV current of the corresponding channel

Peak power: maximum generation power of the corresponding channel

💡 Tip: Pull down the list to refresh device data



5.2.1. 3 Device Information

Displays basic device information

Device nickname: current device nickname

Wi-Fi Settings: Tap to enable Bluetooth and Location to connect to the device.

Device code: factory default SN code of the device; tap to copy

Device model: factory default model name of the device; tap to copy

Device power: default power of the device

Add date: device addition time

Firmware version: device firmware version number

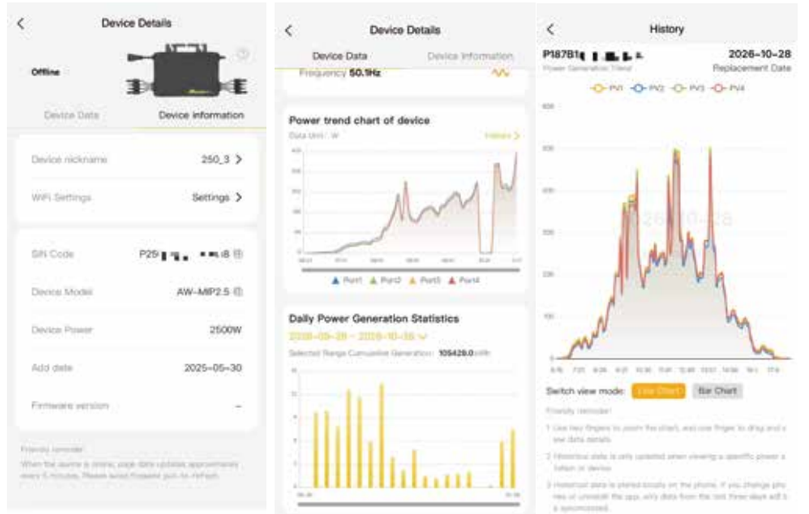
5.2.1. 4 Power trend chart of device

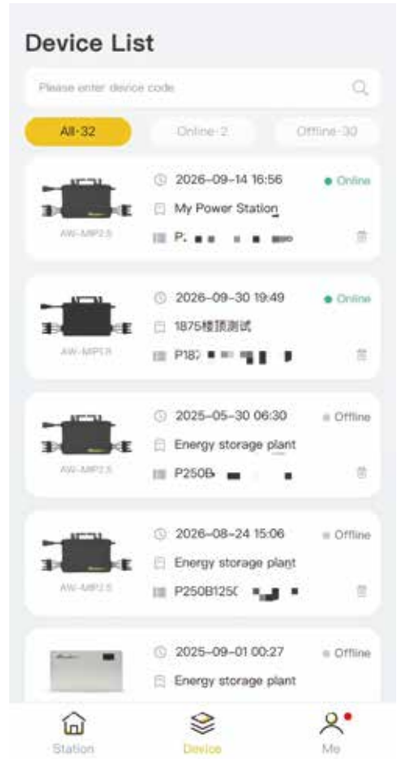
Displays the power generation trends of all channels of the current device. Tap History to view the power generation trend for a previous date. Tap a PV channel to view data for that individual channel.

Note: Historical data is unavailable if the device has just been bound for the first time or has no previous power generation records.

5.2.1. 5 Daily Power Generation Statistics

Displays the total energy generation data of the current device. Tap to select a past time period and view the corresponding total energy generation data.





5.2.2 Device List

- The Device List on the Home page displays all devices associated with the power station linked to the current account.
- Tap a device card to open the corresponding Device Details page.
- Tap [Online/Offline] to view the details of online or offline devices.

6. General

6.1 Me

The functions of the Me interface are as follows:

Current Account

Displays the currently logged-in account information

Help Center

Tap Support to be redirected to the Contact Us page. Users can submit feedback about issues encountered during app use through this page.

Device Messages

Receives message notifications from all devices (tap the bell icon in the upper right corner to clear all unread messages):

- Device offline notification
- Device status change
- Fault alert

⚠The scope of message reception varies by account type:

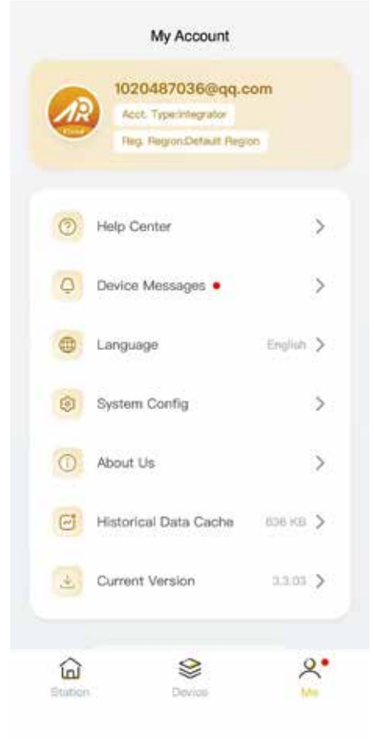
– Only integrator accounts can receive message notifications

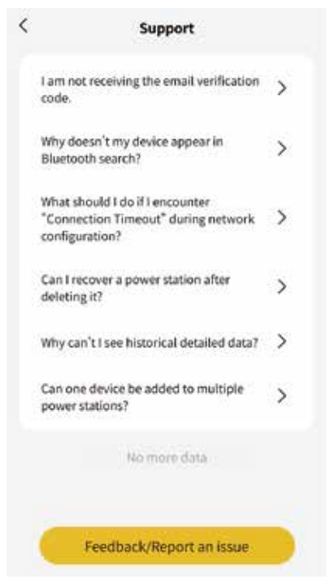
Language

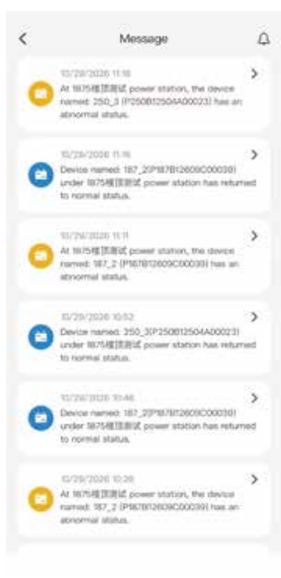
Ares Cloud supports a multilingual interface; configure according to your usage habits.

Supported languages: Chinese (Simplified) / English / Português (Portuguese)

More languages continuously being updated...









Configuration (this function is exclusive to integrators)

System Config:

- Currency unit: can select the currency of different countries
- Income: manually set the local electricity price
- Used to automatically calculate revenue based on generation
- Generation metering point configuration

About Us

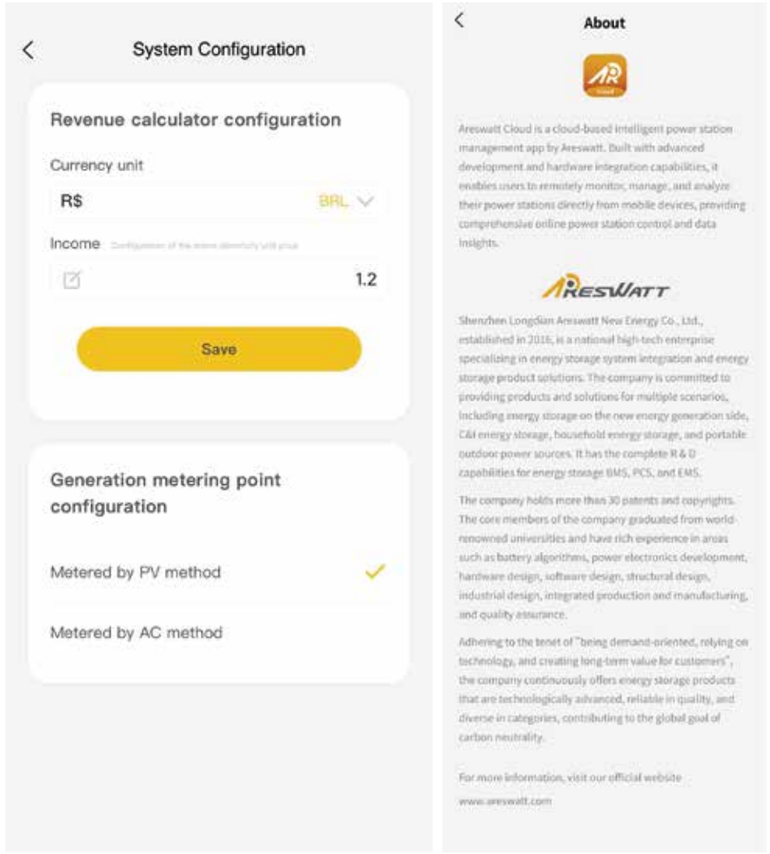
- Ares Cloud app introduction
- Areswatt New Energy Inc. company introduction
- Version information
- Terms of use
- Privacy policy

Historical Data Cache

- Historical data cache management
- Every time you view power station details, historical data will be stored locally
- Tap to clear historical data and free up phone storage space

Current Version

- Displays the current App version number
- Tap to be redirected to the app store
- Check if a new version is available for update

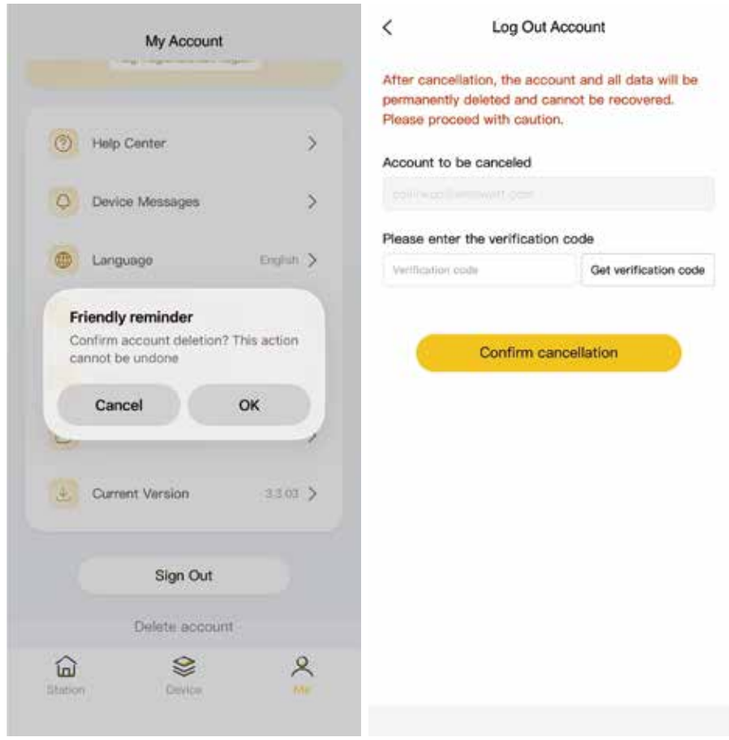


7.2 Delete Account

Tap「Delete Account」to enter the account cancellation page.

Cancellation steps:

1. Enter the【Me】page
2. Tap「Cancel Account」
3. Enter your account email
4. Tap「Send」to obtain the verification code
5. Enter the verification code received
6. Tap「Confirm Cancellation」
7. After cancellation, you will be automatically redirected to the login and registration page



❗ Important Warning:

1. After account cancellation, the account and all data will be permanently deleted and cannot be recovered
2. After the integrator's cancellation, all created power stations and associated end user data will be deleted
3. After the end user's cancellation, access to all authorized power stations will be lost
4. Please proceed with caution!

Q&A (Integrator)

Q: Why does my device not appear in the Bluetooth search?
A: Please check:
- Whether the device is powered on
- Whether the device is within the Bluetooth search range (usually within 10 meters)
- Whether the Bluetooth function on your phone is enabled
- Try restarting the device and searching again

Q: What should I do when "Connection Timed Out" occurs during network configuration?
A: Please check and perform the following:
- Ensure the entered Wi-Fi password is correct
- Ensure the Wi-Fi signal strength is good
- Try moving the phone closer to the device and configuring again
- Restart the device and phone and try again

Q: How often is data updated?
A:
- Real-time data: updated every 5 minutes
- Device status: updated in real time
- Historical data: automatically compiled at midnight each day
- Pull down to refresh: allows manual retrieval of the latest data

Q: Can I recover a power station after deleting it?
A: No. The power station deletion operation permanently deletes the power station and all its associated data, with no possibility of recovery. It is recommended to export important data before deleting.

Q: Why can't I see detailed historical data?
A: The system only retains detailed data for the current day; the following day only the total generation is retained. For long-term analysis, it is recommended to regularly export data or use the reporting function.

Q: Can a device be added to multiple power stations?
A: No. Each device can only be bound to one power station. If you need to rebind it, please delete it from the original power station first.

Q: How do I authorize a power station to an end user?
A:
- Enter the power station details page
- Tap the user icon in the upper right corner
- Tap + to add the end user
- Enter the end user's email

Q: Can one power station be associated with multiple end users?
A: Yes. One power station can be authorized to multiple end users for viewing simultaneously; all users see the same data.

Q: Can I recover a power station after deleting it?
A: No. The power station deletion operation permanently deletes the power station and all its associated data, with no possibility of recovery. It is recommended to export important data before deleting.

Q: Can a device be added to multiple power stations?
A: No. Each device can only be bound to one power station. If you need to rebind it, please delete it from the original power station first.

Q: How do I modify the Wi-Fi network of an already added device?
A:
- Enter the device details page
- Find the「Wi-Fi Settings」option
- Tap to enter and input the new Wi-Fi information
- Ensure the phone is near the device to complete the operation

Q: How can an integrator set the automatic fault recovery time for a device?
A: You need to enter the【Device Information】panel on the device details page and find the fault recovery time option to configure it; the prerequisite is that the device is online and a dealer-provided authorization code is required for the operation.

Q&A (End User)

Q: Why can't I see certain power stations?
A: End users can only see power stations that the integrator has authorized to them. If you believe you should have access but cannot see them, please contact the integrator who installed your system.

Q: Can I modify power station information?
A: No. End users only have viewing permissions and cannot modify the power station name, address, or other information. To make changes, please contact the integrator.

Q: Can I add new devices?
A:No. Adding, deleting, and configuring devices requires operation by the integrator. To add devices, please contact the integrator.

Q: How do I view my generation revenue?
A:

- Enter the power station details page
- View the「Revenue」section

The system calculates automatically based on the electricity price set by the integrator in 【Me – Configuration】

Q: How can an end user clear the power station historical data cache in the App?
A: Enter the【Me】page in the App, tap the cache option to clear the historical data cache and free up phone storage space.

Q: Can end users receive notifications such as device offline or fault alerts?
A: No. Only integrator accounts can receive device message notifications; end users have no message reception permission.

Q: How is the power station generation revenue displayed to end users calculated?
A: Revenue is automatically calculated by the system based on the local grid electricity unit price set by the integrator in【Me – Configuration】, combined with the accumulated g
eneration of the power station.

Q: When can a newly authorized end user view historical generation data for a newly created power station?
A newly created power station only generates historical generation records from the next day; end users can view them on the power station details page the following day.

Q: Can end users switch the App interface language?
A: Yes. Enter the【Me】page in the App, tap the language option to freely switch between Chinese (Simplified), English, and Português (Portuguese).

Q: Can end users independently delete authorized power stations or devices?
A: No. Deleting power stations and devices is an integrator permission; end users have no deletion operation permissions.

Q:The end user sees a device as offline; what could be the cause?
A: A device showing offline indicates that the device is powered off or has a fault; the specific issue requires contacting the corresponding integrator for diagnosis.

Q: Can end users view the monthly generation comparison data of a power station?
A:Yes. Enter the generation trend interface, select the corresponding month and power station to view monthly generation, daily generation bar charts, and other comparative data.

Q: Can end users copy a device's SN code and model information?
A: Yes. In the「Device Information」panel in the device details, tap the device code or device model to directly copy the relevant information.

Q:Can end users view real–time operating data of a single PV channel of a device?
A: Yes. Enter the device details page to view the dedicated operating data of each indi–vidual PV channel, including power, voltage, current, and temperature.

Q: Can end users cancel the link between themselves and an authorized power station?
A:No. Cancellation of the association between a power station and a user is the exclusive authority of the integrator; end users do not have this permission.

Contact and Support

If you encounter any problems during use, or have any suggestions or feedback, please feel free to contact us through the following ways:
After-sales email: aftersales@areswatt.com
Official website: www.areswatt.com
Our technical support team will respond to your questions within 48 hours on business days.