



Smart EVC

User Manual V1.1

Catalog

1.Overview.....	4
2.APP installation page.....	4
2.1 Quick installation instruction	4
2.2 Installation notes	5
2.2.1 Guide to turn on the Bluetooth page	5
2.2.2 Guide to turn on the Location page	6
3.APP operation page	7
3.1 Register user account for first use	7
3.2 Connect the charging station for the first time	7
3.2.1 How to Connect Your Charger	7
3.2.2 Failed to add device - Help page appears	8
3.3 Quickly connect the charging station	9
3.4 Quickly switch charging stations	10
3.5 Instruction on fast charging	10
3.6 Home page	11
3.6.1 Home page - charging mode	12
3.6.2 Home page - Setting.....	13
(I) Home page - Settings - Load Balancing	14
(II) Home page - Setting - Plug and Charge.....	15
(III) Home page - Setting - Bind Card.....	16
(IV) Home page - Setting - Protection Settings	17
(V) Home page - Setting - Restart Device	18
(VI) Home page - Setting - About Device	19
(VII) Home page - Setting - Electricity Statistics.....	20
(VIII) Home page - Setting - WI-FI Connection.....	21
(IX) Home page - Setting - Reset and Delete.....	21
3.6.3 Home page - Charging Station Details	22
3.6.4 Home page - Share Device	23
3.6.5 Home page - Configure Now	24
(I) Home page - Configure Now - gun status	25

(II) Home page - Configure Now - Reservation.....	25
3.7 Enrgy Factory page	26
3.8 Mine page	27
(I) Mine page - Remote OTA.....	28
(II) Mine page - Language Settings.....	29
(III) Mine page - Historical Faults	29
(IV) Mine page - Remote OTA - Manufacturer Factory Mode.....	30

1.Overview

Smart EVC is an innovative, easy-to-use application designed for your electric vehicle (EV) charging needs. This app is tailored specifically for EU standard charging stations, marrying an array of practical functionalities with a user-friendly interface for a streamlined, efficient EV charging experience.

Device Control: Initiate or stop charging with the simple press of a button. Monitor device parameters effortlessly, keeping you informed about the operational status of your charging station throughout your charging process.

Scheduling Feature: Seamlessly integrate charging times into your daily routine. Set times in advance and let your EV charge as per your schedule.

Adjustable Maximum Charging Power: Manually set the maximum charging power to prevent potential power grid overloads and ensure optimal charging efficiency.

RFID Card Management: Bind RFID cards to your device for easy swipe-to-charge functionality. Each device supports up to eight cards, accommodating multiple users whether for family or business needs.

Download Smart EVC today and embrace a more efficient and intelligent EV charging lifestyle.

2.APP installation page

2.1 Quick installation instruction

Download the APP software from Google play or Applestore and install it.The quick installation instruction is as follows:



2.2 Installation notes

The installation process of different mobile phones is not exactly the same, so you can just follow the installation instructions and proceed step by step

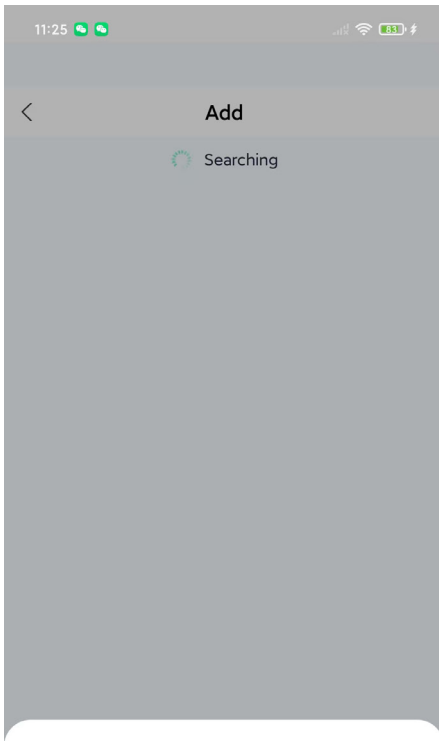
The permissions required to use the APP and the system during installation need to be authorized, otherwise the program will not run normally.

Please pay special attention that the program will need to use storage permission, location access permission, and Bluetooth, and Wi-Fi should be turned on, while some permissions are required for related hardware and mobile phone operating systems. The APP will not run normally without these permissions.

When some permissions are not authorized during installation, the APP will prompt that some certain permissions are needed when using the APP, and automatically guide to set certain permissions.

2.2.1 Guide to turn on the Bluetooth page

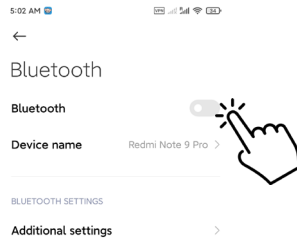
When searching for charging stations, if Bluetooth is not turned on, it will prompt to turn on Bluetooth:



Smart EVC wants to turn on Bluetooth.

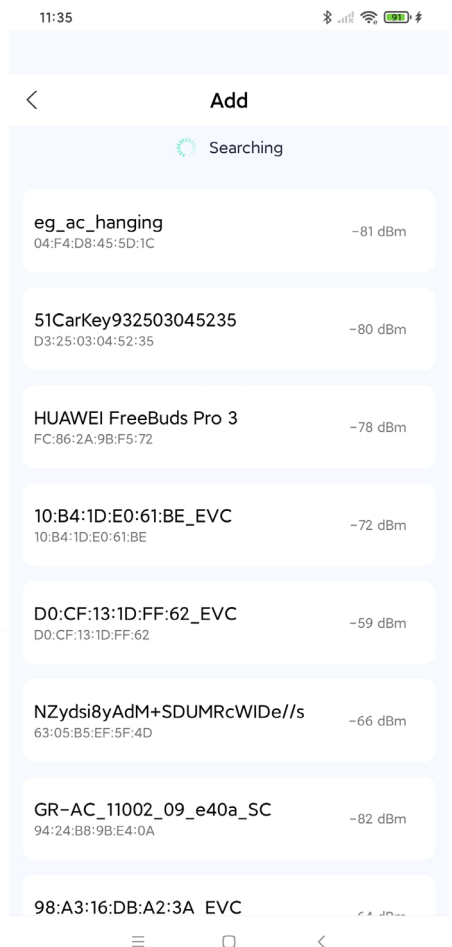
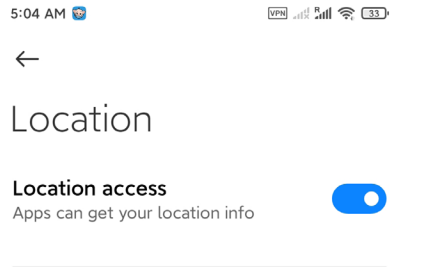
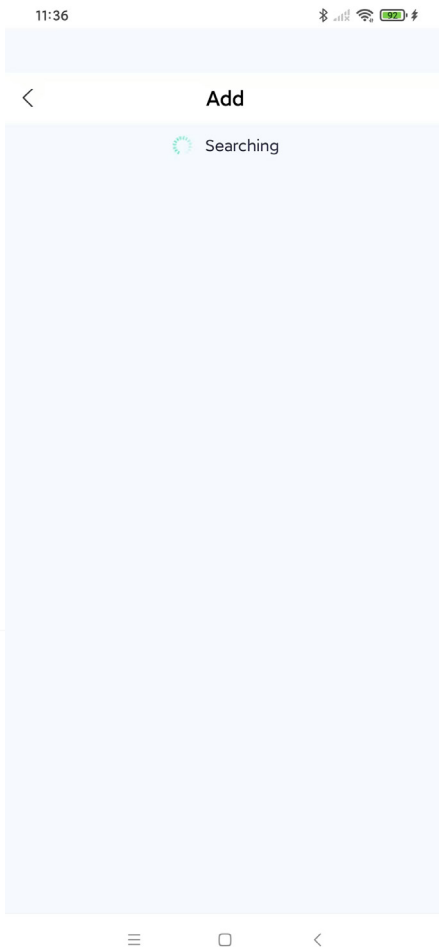
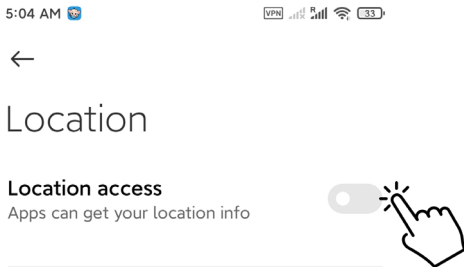
Deny

Allow



2.2.2 Guide to turn on the Location page

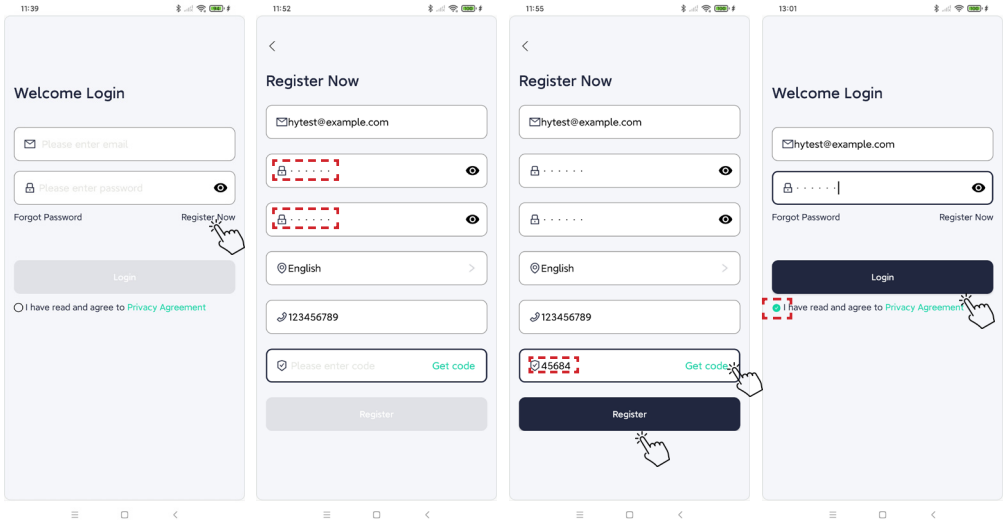
When searching for charging stations, if Location is not turned on, the device is undetectable.



3.APP operation page

3.1 Register user account for first use

The first step is to click on register, then get the code from your email and fill it in, then enter the password and click register. After the registration is successful, return to the login page and enter the email and password you just filled in to enter.

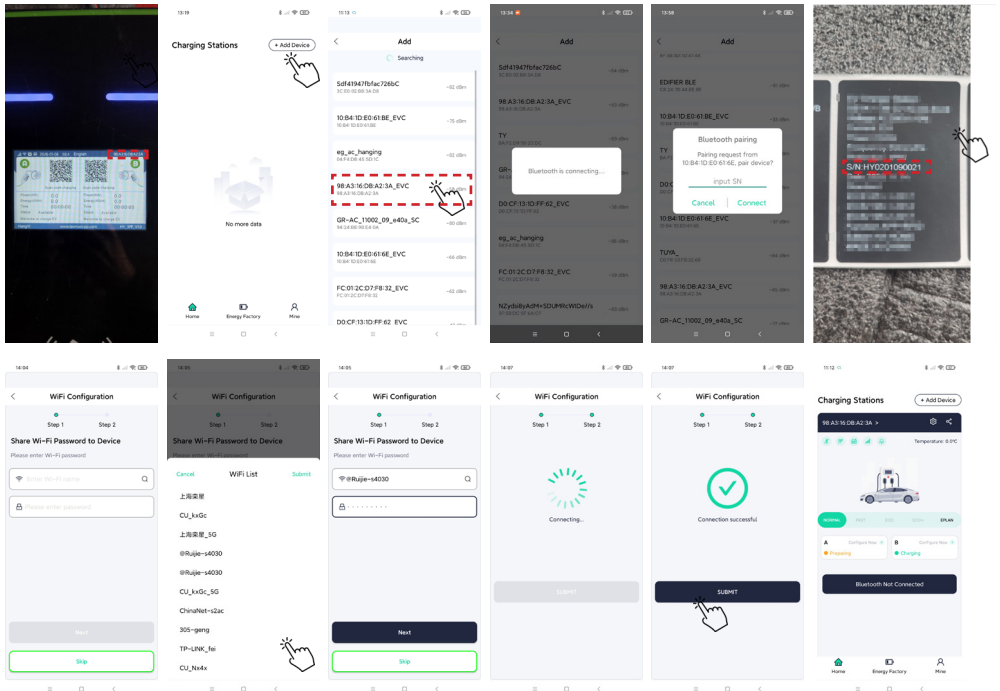


3.2 Connect the charging station for the first time

First, make sure your phone is close to the device you want to add, and your phone's network, Bluetooth, and location are turned on. Click the "+ Add device" to enter the add device page.

3.2.1 How to Connect Your Charger

1. Find MAC Address: Check the top-right corner of the charger screen. No MAC address? Just scan the on-screen QR code.
2. Connect via Bluetooth: Tap the "+ Add Device" button to enter the Bluetooth pairing interface. From the list of available devices, find and select the one named [MAC Address]_EVC.
3. Verify SN: Enter the Serial Number (SN) found on the black label on the side of your charger (see image below).
4. Scan for WiFi: In the "WiFi Configuration" page, tap the Search (Magnifying Glass) icon. (Make sure your phone's WiFi is turned on!)
5. Configure: Pick your WiFi, enter the password, and tap Next.
6. Finish: Wait for Step 1 (Connecting) and Step 2 (Success) to complete, then tap SUBMIT to bind your device.



3.2.2 Failed to Add Device / Troubleshooting

If you encounter issues during the binding process, please refer to the following solutions:

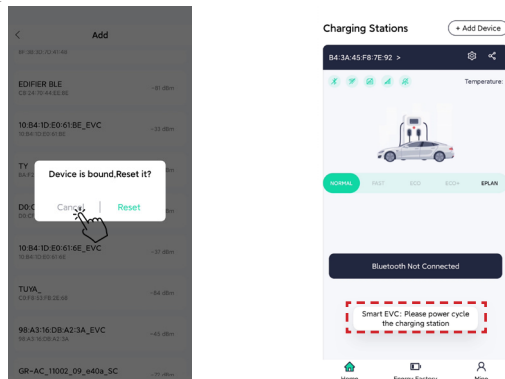
1. Message: "Device is Bound"

Action: Select the "Reset" option in the app.

Critical Step: After the app displays "Reset Successful," you must manually power off the charging station (switch off the circuit breaker) and then restart it.

Note: The charging station will NOT restart automatically. You must cut the power supply completely to finalize the reset before attempting to bind again.

Re-binding: Once the device has restarted, please return to section 3.2.1 "How to Connect Your Charger" to re-execute the binding process.



2. Network Configuration Failure

Error Message: "Connection failed".

Cause: Incorrect Wi-Fi password or weak signal.

Solution: Follow these steps to re-configure the network:

Exit the Prompt: Tap the "SUBMIT" button on the error screen to return to the Home Page.

Locate Device: Find your charging station on the Home Page using its unique MAC address.

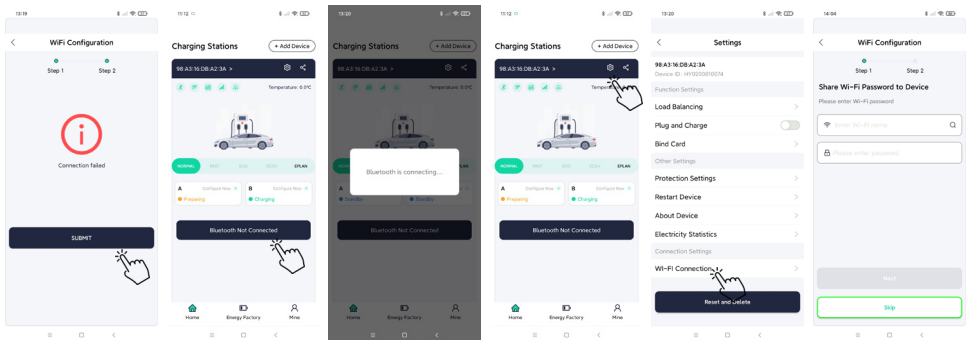
Check Bluetooth Status:

If you see the "Bluetooth Not Connected" button, tap it to establish a connection.

If this button is not visible, your phone is already connected to the charger via Bluetooth.

Enter Settings: Tap the Gear icon (Settings) in the top-right corner of the screen.

Re-configure Wi-Fi: Select "WI-FI Connection" from the settings menu and re-enter your network credentials.



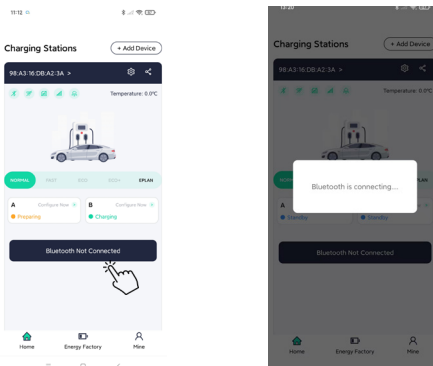
3.3 Quickly connect the charging station

After the initial binding process is completed, the APP will record the last used charging station for faster access.

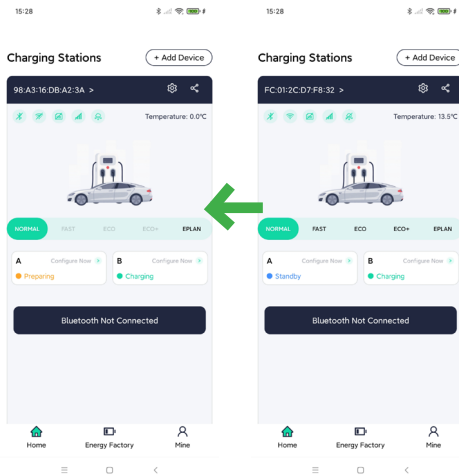
Automatic Connection: When the charging station is powered on and has an active network connection, the APP will attempt to connect automatically.

Offline Mode Usage: If the charging station is in an Offline State (no internet connection), the APP cannot connect via the cloud.

Manual Bluetooth Connection: In offline mode, you must manually tap the "Bluetooth Connection" button on the device list to establish a direct local connection. This allows you to control and monitor the charger via Bluetooth even without a network signal.



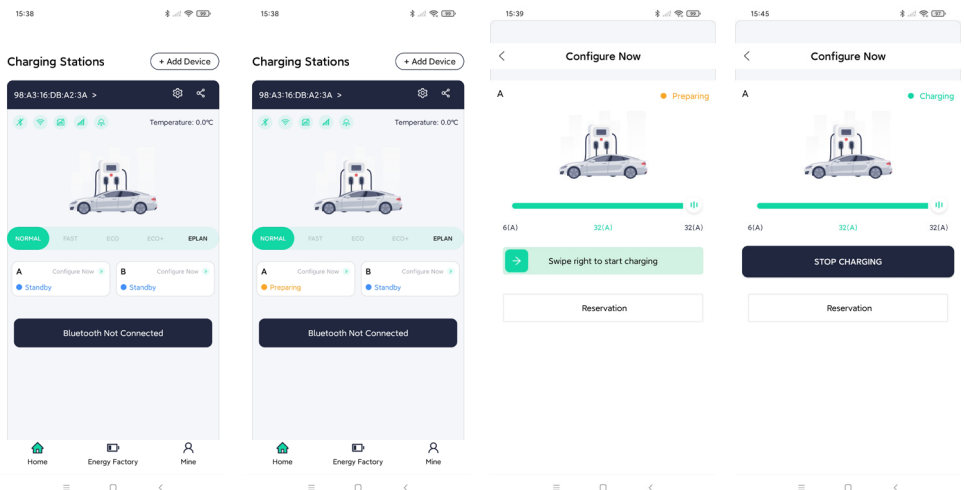
3.4 Quickly switch charging stations



When multiple charging stations have been connected, the APP will record the charging stations that have been connected. If you need to switch charging station, **Please slide the screen right**. The connection will fail if the charging station is offline.

3.5 Instruction on fast charging

To complete a charging session, first connect Gun A to your vehicle to automatically update the status from Standby to Preparing. Next, tap the Gun A icon to enter the details page and simply swipe the slider from left to right in the "Swipe right to start charging" area to initiate the session. The APP will then transition through the Available, Preparing, Charging, and Finished pages in sequence as shown in the screenshots below.



3.6 Home page

The Home Page is the central control hub for your EV charger, offering a comprehensive overview of its status and configuration options.

Device Access: The + Add Device (1) button is used for binding new charging stations, while tapping the Device Name (2) (MAC Address) allows you to enter the Charging Station Details interface.

System Control: System adjustments are accessed via the Settings icon (3), and device permissions can be managed through the Share icon (4).

Connection Status: The Status Area (5) provides a real-time display of the connection status for Bluetooth, Wi-Fi, Ethernet, 4G, and the Cloud Platform.

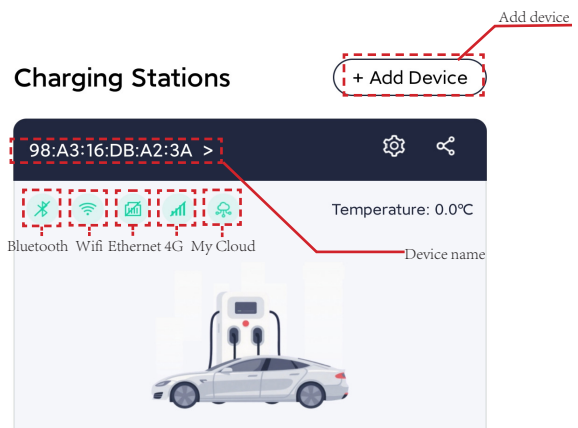
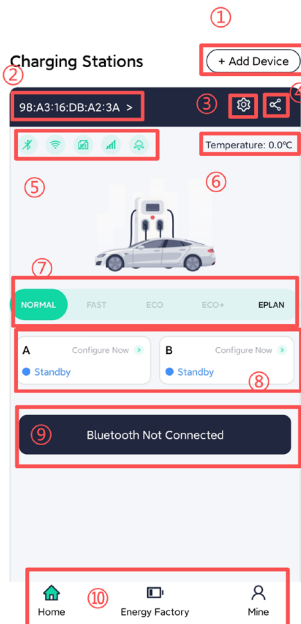
Environmental Data: The interface shows a real-time reading of the charger's Operating Temperature (6).

Working Mode Selection: Users can customize their charging strategy in the Working Mode (7) area, with options including NORMAL, FAST, ECO, ECO+, and EPLAN.

Gun Selection: For dual-connector models, the Gun Selection (8) area displays the independent status of Connector A and Connector B.

Offline Connectivity: The Bluetooth Connection Button (9) enables essential local control for offline use when a network connection is unavailable.

Navigation Bar: The bottom Interface Switching (10) area allows for quick navigation between the Home, Energy Factory, and "Mine" profile pages.



3.6.1 Home page - charging mode

Our APP provides five distinct charging modes to suit various energy needs and household electricity conditions. Please note that FAST, ECO, and ECO+ modes are available only when the "Green Energy" function is enabled. **That means if you don't purchase an additional CT box from us, your charger does not have FAST ECO ECO+ function.**

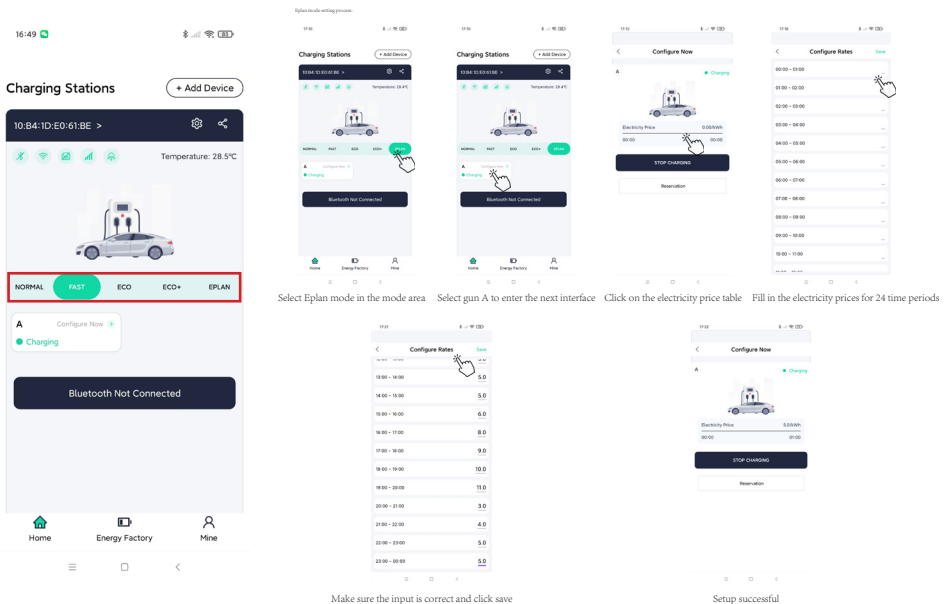
NORMAL Mode (Default): This is the factory default "Free Mode". It does not follow any automated energy strategies, allowing you to manually configure all charging parameters to your preference.

FAST Mode: Designed for users who need the quickest possible charge. It utilizes the maximum grid power available, ensuring the battery remains in backup status (Inverter Backup) without being discharged, focusing purely on high-speed charging.

ECO Mode: Ideal for homes with solar or energy storage systems. By monitoring your home's real-time electricity load via a Current Transformer (CT), the charger dynamically adjusts its output. It prioritizes your home's power needs while ensuring the vehicle continues to charge at a minimum current without interruption.

ECO+ Mode: An enhanced version of ECO mode for maximum home electricity priority. If your home's electricity demand remains high even when the charger is at its minimum output, ECO+ will pause the charging session entirely to prevent overloading. Charging automatically resumes at full power once the home load remains idle for one hour.

EPLAN Mode: A smart cost-optimization strategy based on Time-of-Use (TOU) pricing. The APP automatically categorizes your 24-hour electricity price table into four tiers. It maximizes charging power during the cheapest hours and reduces it to a maintenance level (6A) during peak hours to significantly lower your utility costs. You can also set a target kWh for the session. To activate the smart cost-saving features of EPLAN Mode, users must manually enter a 24-hour electricity price table into the APP. Please refer to the illustrated guide below for the step-by-step entry process:



3.6.2 Home page - Setting

Tap the gear icon in the top-right corner to enter the Settings page. The Settings page is organized into four main sections to help you manage and configure your charging station:

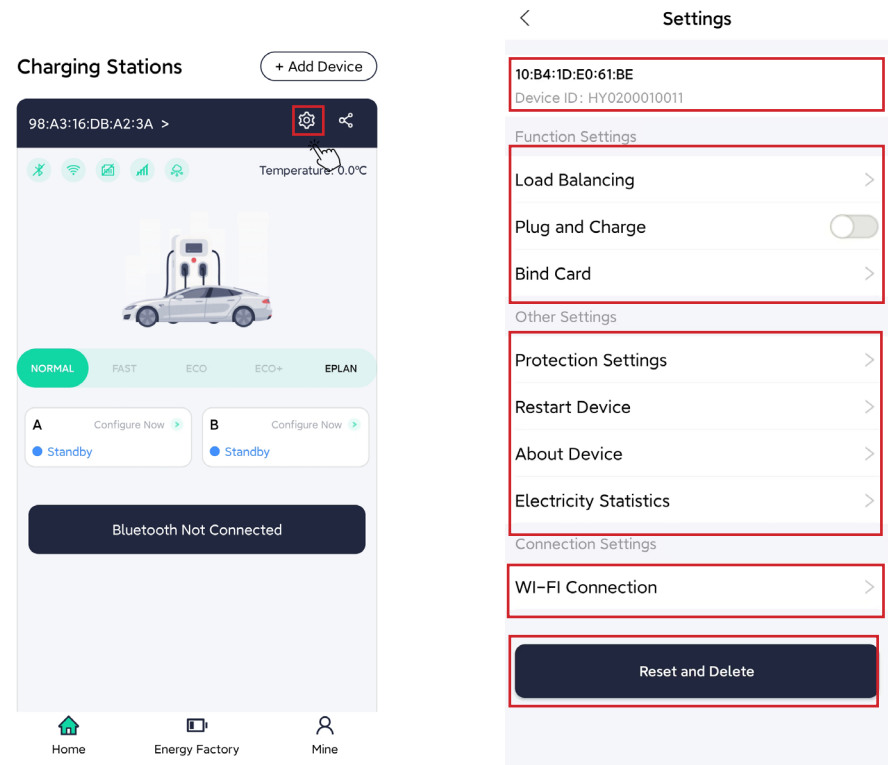
Device Identification: The top section displays the Device Name (MAC address) and the unique Device ID (SN code), which are essential for identifying your specific unit.

Function Settings: This area allows you to manage advanced features, including Load Balancing, Plug and Charge (for automatic activation), and Bind Card for RFID card management.

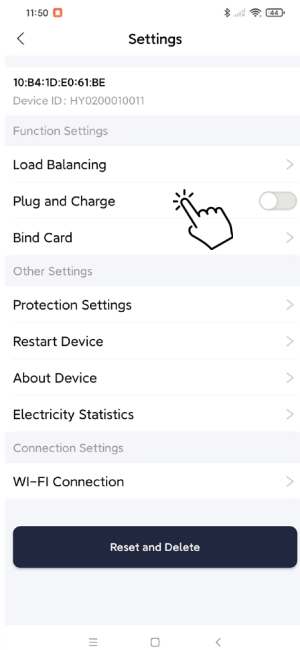
Other Settings: Access maintenance and safety options such as Protection Settings, Restart Device, About Device (firmware details), and Electricity Statistics to track your energy consumption.

Connection Settings: Use the WI-FI Connection menu to manage your network settings or update wireless credentials.

Unbinding the Device: Tap the "Reset and Delete" button at the bottom to completely remove the charging station from your current account and the APP.

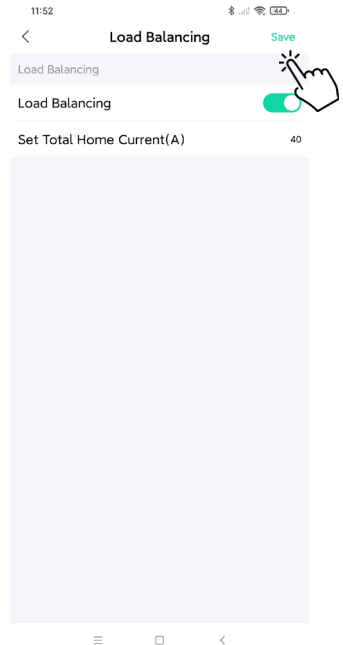
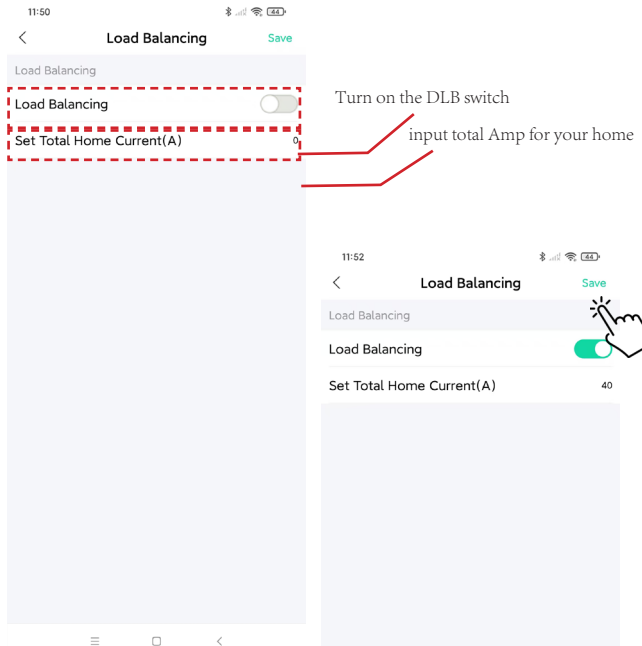


(I) Home page - Settings - Load Balancing

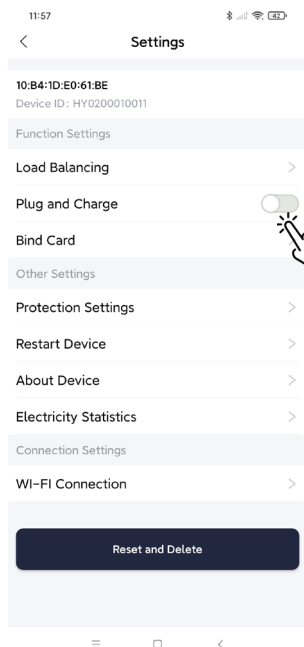


Load Balancing:

Load balancing involves distributing the electrical load evenly across multiple charging devices or circuits to prevent overloading and ensure efficient use of available power.

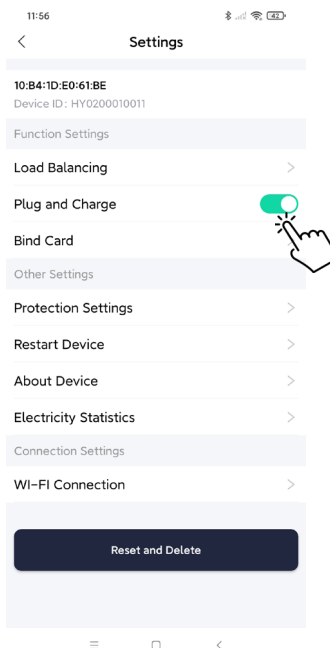


(II) Home page - Setting - Plug and Charge



Plug and Charge:

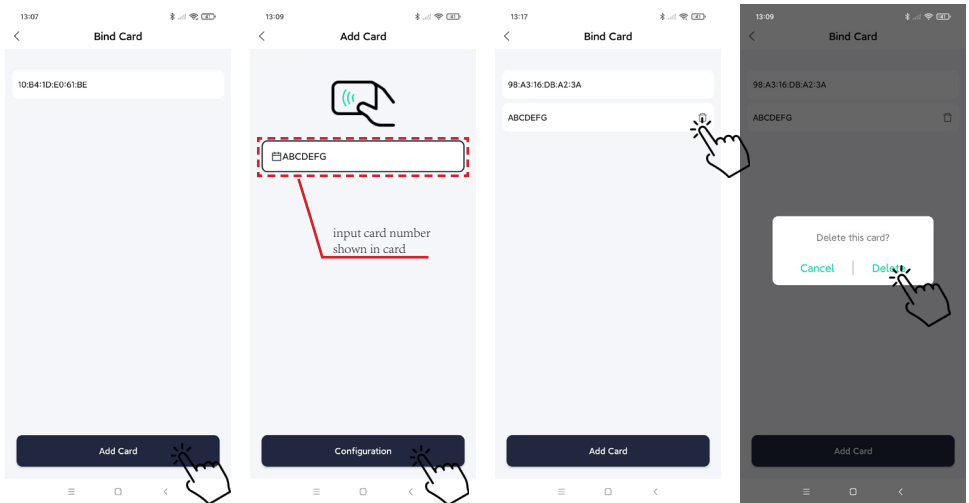
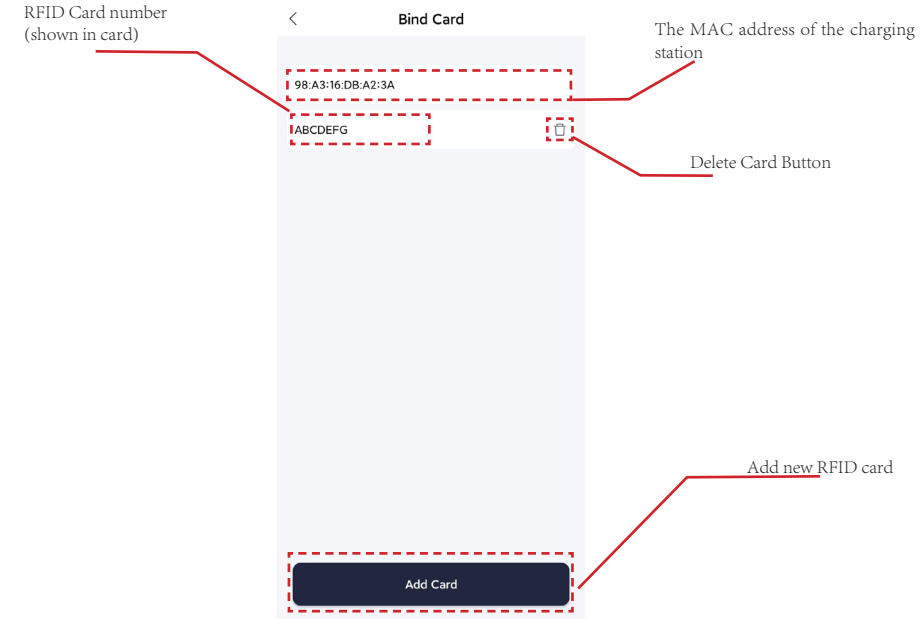
Once the plug&charge mode is enable, the charger will start to charge immediately after the charging gun is plugged in. The charger will be stopped by Unplugging the charging gun or by finishing this charging process.



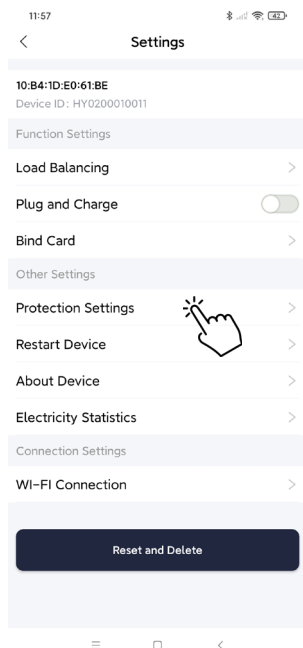
(III) Home page - Setting - Bind Card

Bind Card:

Bind RFID Card This feature allows you to link an RFID card or key fob to your device for secure access control and user authentication. To bind a card, please manually enter the 8-digit UID (Unique ID) printed on the physical card. **You can bind up to 50 cards to a single device.** Existing cards can be unbound or deleted at any time. The following section demonstrates how to bind and delete cards.



(IV) Home page - Setting - Protection Settings



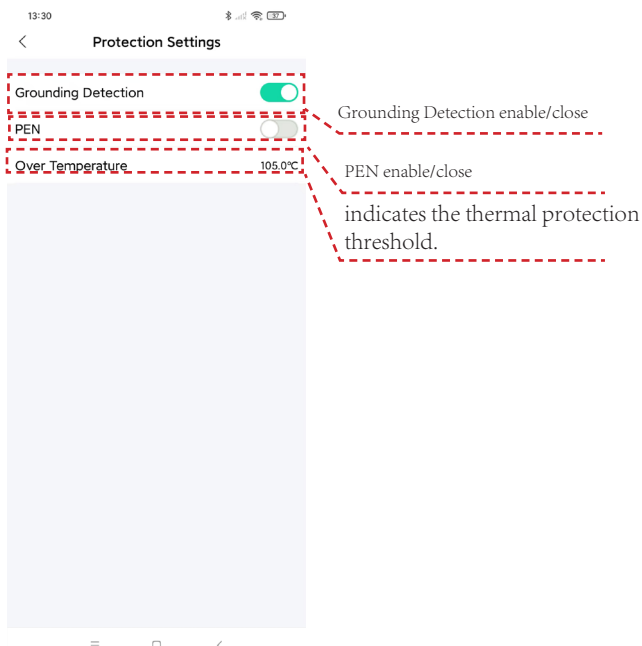
Protection Settings:

This section allows you to manage the safety parameters of the charging station to ensure secure operation.

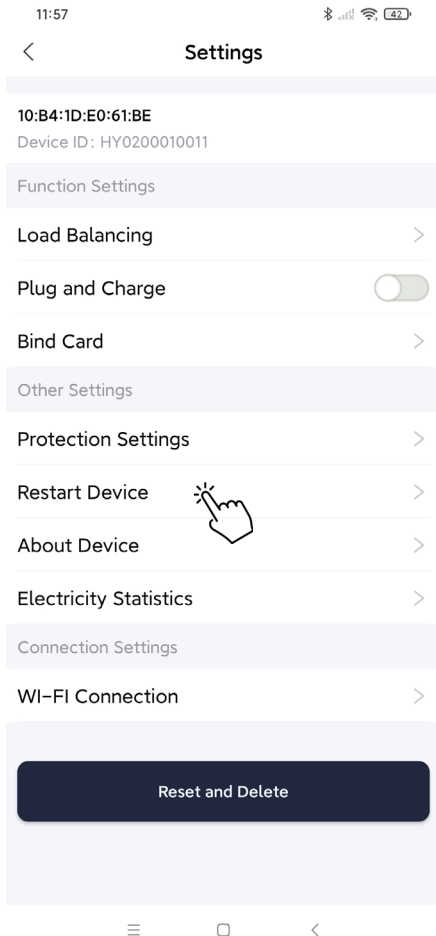
Grounding Detection: This feature is enabled by default. It monitors the grounding status of the station to prevent electrical hazards. You can manually toggle this switch if necessary.

PEN Detection: Specifically designed for the EV charging field, this switch controls the Protective Earth-Neutral (PEN) fault detection. It provides an extra layer of safety against neutral wire interruptions.

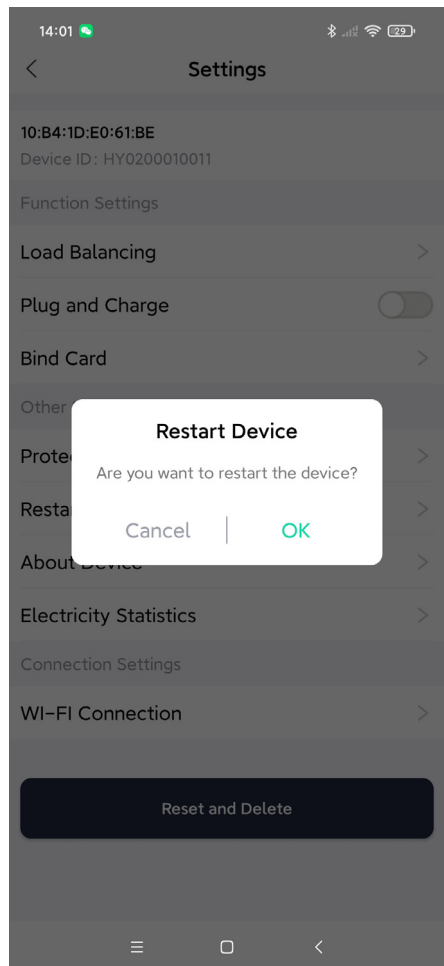
Over Temperature: This indicates the thermal protection threshold. The value is factory-set (fixed) at 105.0°C to protect the internal components and is non-adjustable for safety reasons.



(V) Home page - Setting - Restart Device

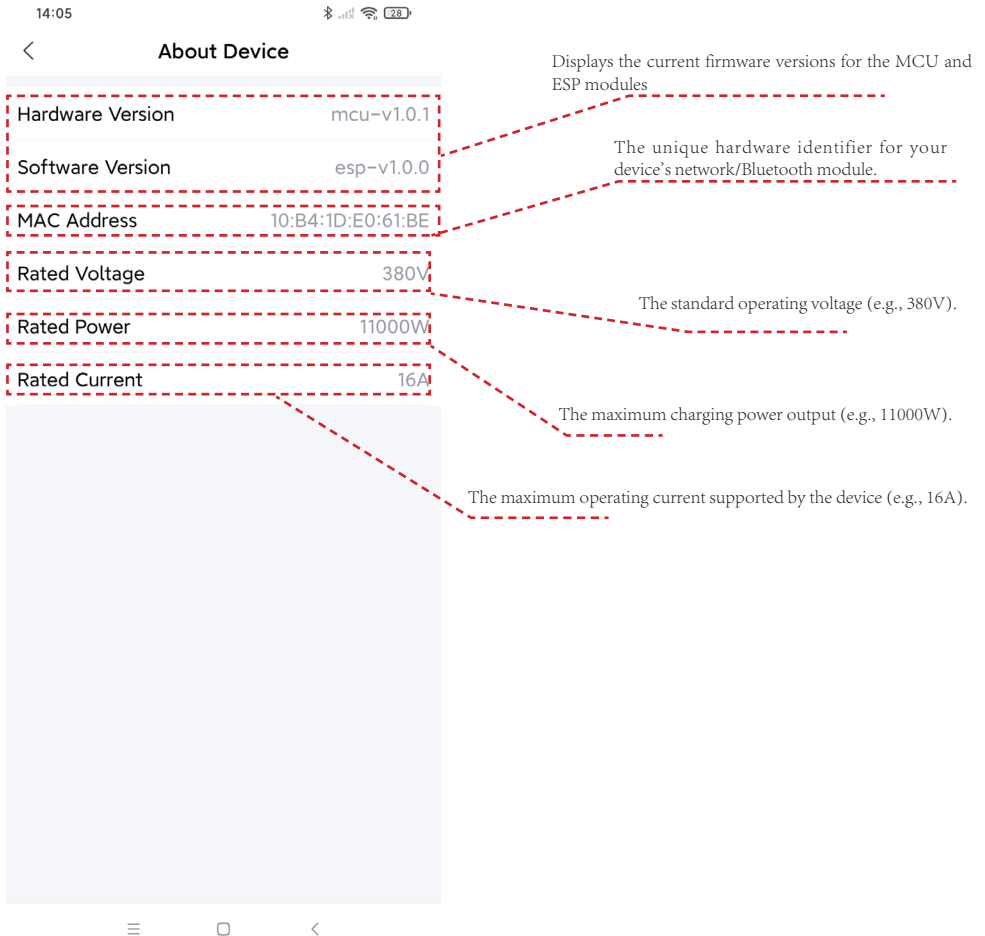
**Restart:**

The ability to remotely or manually restart the device can be useful for troubleshooting issues or applying changes to settings.



(VI) Home page - Setting - About Device

The information on this page is for reference only. If you encounter technical issues, please provide the MAC Address and Version numbers to technical support.



(VII) Home page - Setting - Electricity Statistics

Energy Statistics for Last 90 Days: Displays the cumulative data for the past three months.

Charging Times: The total number of charging sessions completed.

Charging Duration: The total cumulative time spent charging (displayed in hours for the summary).

Charging Records Each individual charging session includes the following details:

MAC Address: Identifies which charging station was used.

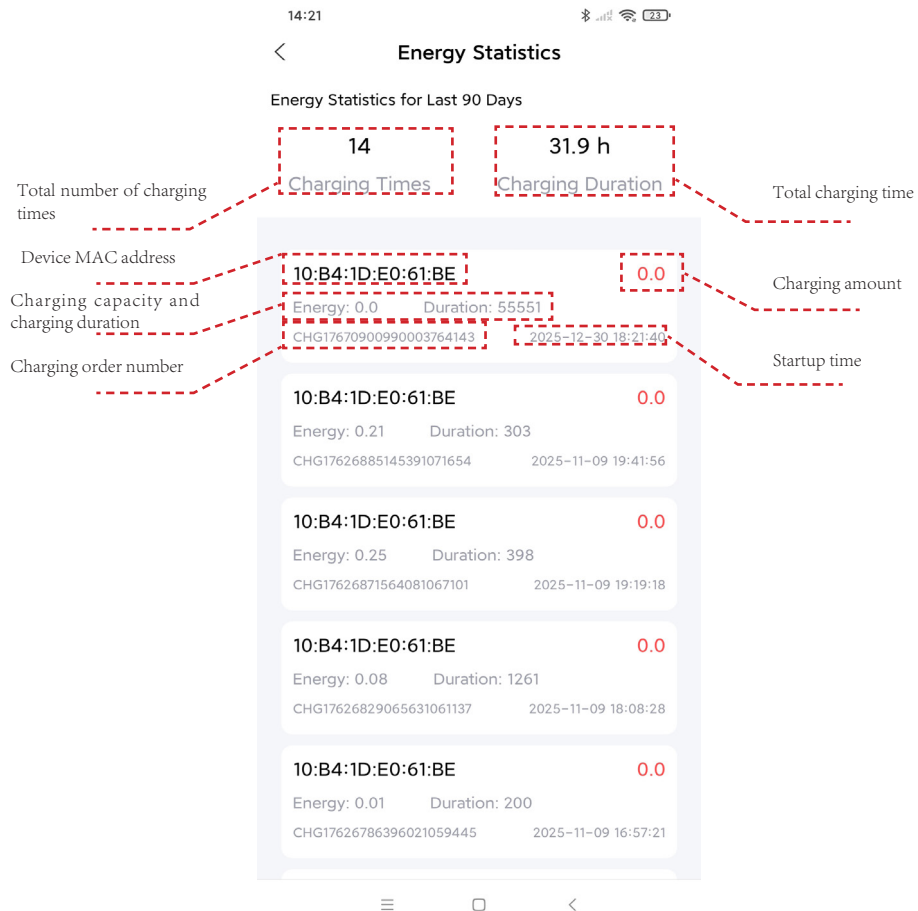
Charging Cost (Red Text): Displays the total cost for the session.

Note: Billing is only calculated if a Tariff/Price Table has been configured. If no price is set, the value will default to 0.0.

Energy: The total electricity consumed during the session (in kWh).

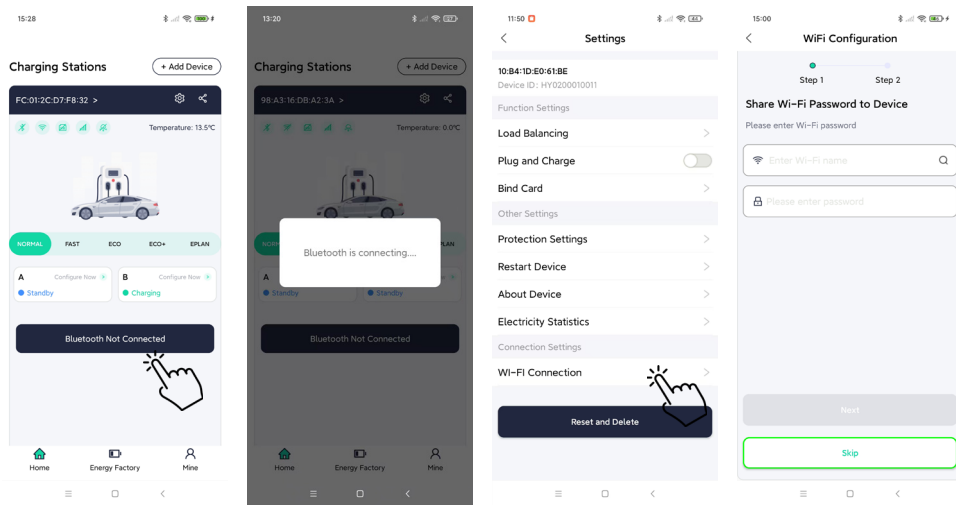
Duration: The exact length of the charging session, measured in seconds (s).

Transaction ID & Timestamp: Unique record ID and the specific date/time the session began.

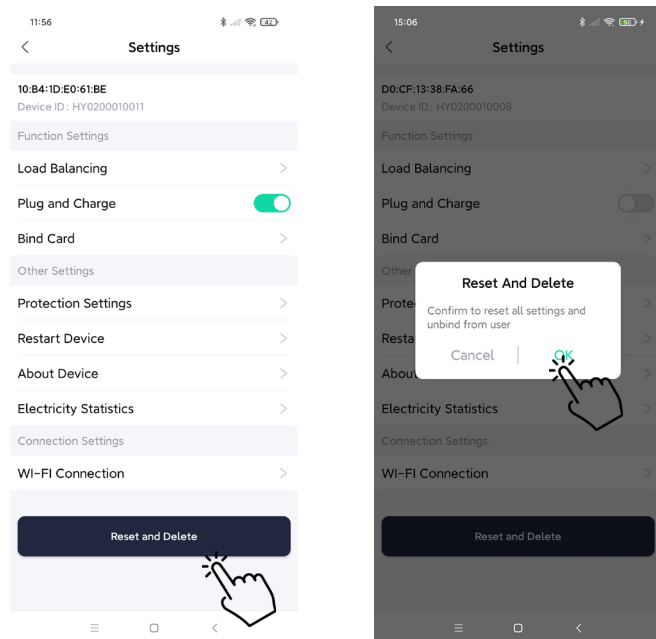


(VIII) Home page - Setting - WI-FI Connection

Before entering the Wi-Fi configuration interface, you must first select the specific charging station on the Home page and establish a successful Bluetooth connection. The Wi-Fi settings will only become accessible once the device is actively paired via Bluetooth.



(IX) Home page - Setting - Reset and Delete



Reset And Delete:

This function is used to completely remove the charging station from your current account and restore the device to its original factory settings.

3.6.3 Home page - Charging Station Details

How to Access: From the Home page, tap the device's MAC Address located in the top-left corner to enter the Charging Station Details interface.

Interface Overview: This page provides a comprehensive real-time overview of your charger's status and performance:

Modify Device Name: Tap the Edit (Pencil) icon next to the current Device Name to customize the name of your charging station for easier identification.

Device Identifiers: View the unique Device ID and MAC Address of the hardware.

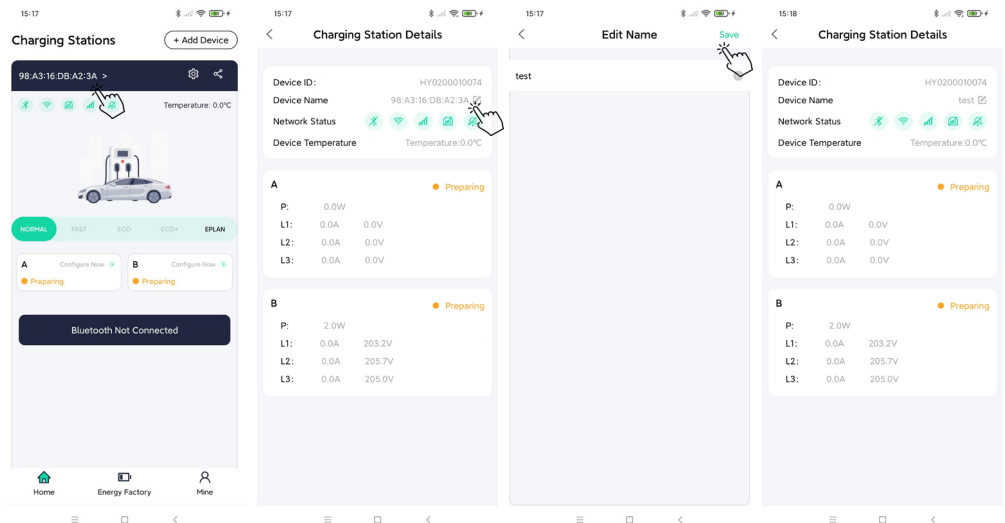
Network Status: Monitor the connection status via the row of icons, which indicate the strength and availability of Bluetooth, Wi-Fi.

Device Temperature: Displays the real-time internal temperature of the charging station to ensure safe operating conditions.

Connector Details (A & B): View live charging metrics for each connector (gun) independently:

P: Real-time charging power output (Watts).

L1/L2/L3: Detailed voltage (V) and current (A) readings for each phase, providing a deep look into the electrical stability and load of the session.



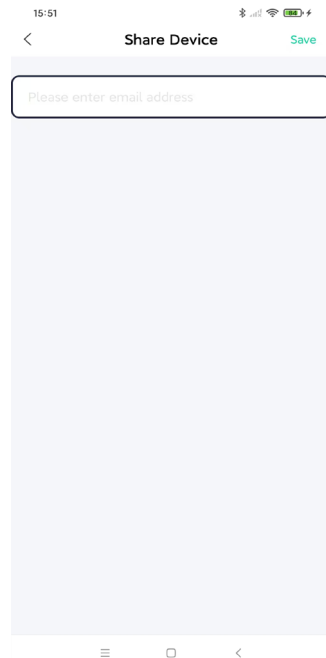
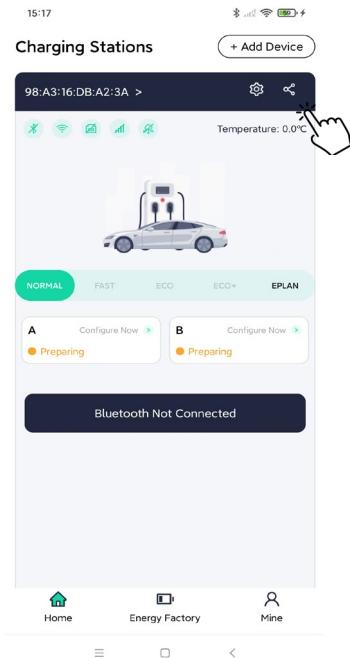
3.6.4 Home page - Share Device

Description: This feature allows you to grant other users (such as family members or colleagues) access to your charging station by sharing it with their accounts.

How to Share: Enter the email address of the person you wish to share the device with in the input field.

Prerequisite: The recipient must have a valid, registered account in the App associated with that email address. You cannot share the device with an email that has not yet been registered.

Operation: After entering the registered email address, tap the Save button in the top-right corner to finalize the sharing process.



3.6.5 Home page - Configure Now

The Configure Now page is your primary control panel for managing a charging session. This interface allows you to perform four core actions: adjusting the charging current, starting or stopping the charging process, scheduling reservations, and monitoring the real-time status of the charging gun.

Main Functions:

Adjust Charging Current: Use the slider to set the maximum charging current for the current session. The setting ranges from a minimum of 6A up to the rated current of the charging gun (e.g., 32A).

Important Note: Manual current adjustment is prohibited while the device is in the "Charging" state. The slider will be locked once the charging process begins to ensure a stable power flow.

Start & Stop Charging: Once the vehicle is properly connected, you can "Swipe right to start charging". After charging has begun, the same area can be used to manually stop the charging session.

Reservation: Tap the Reservation button to schedule your charging for a specific time, such as during off-peak hours to save on electricity costs.

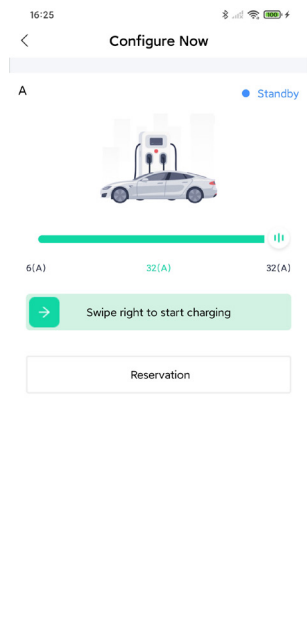
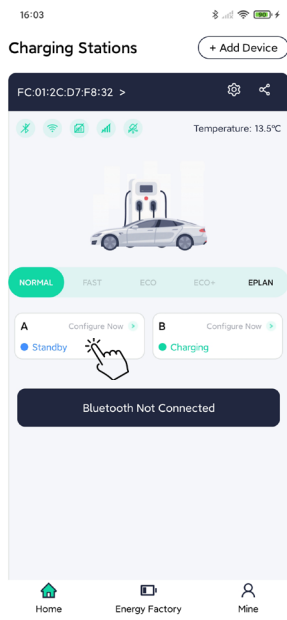
Monitor Gun Status: Real-time updates on the charging gun's status (e.g., Standby, Preparing, Charging) are displayed in the top-right corner.

Crucial Operational Sequence: To ensure the charging starts successfully, please follow this logic:

Insert the Plug: Connect the charging gun to your vehicle.

Verify "Preparing" Status: Observe the status indicator in the top-right corner. You must wait until the status changes to "Preparing" before swiping.

Initiate Charging: Only after the gun is in the Preparing state should you perform the swipe action to start the power flow.



(I) Home page - **Configure Now** - gun status

The real-time status of the charging gun is displayed in the top-right corner of the interface. Understanding these statuses is essential for successful operation and troubleshooting.

Standby:The charging gun is currently unplugged, and the station is ready to start a new session.

Preparing:The gun is plugged into the vehicle. The system is initializing or waiting for the ""Swipe"" command.

Charging:Power is actively being delivered to the vehicle.

Finishing:Charging is complete, but the gun is still connected to the vehicle.

SuspendedEV:Charging has been paused by the vehicle (e.g., the car's battery is full or a vehicle-side limit was reached).

SuspendedEVSE:Charging has been paused by the charging station (e.g., manual pause or system-side trigger).

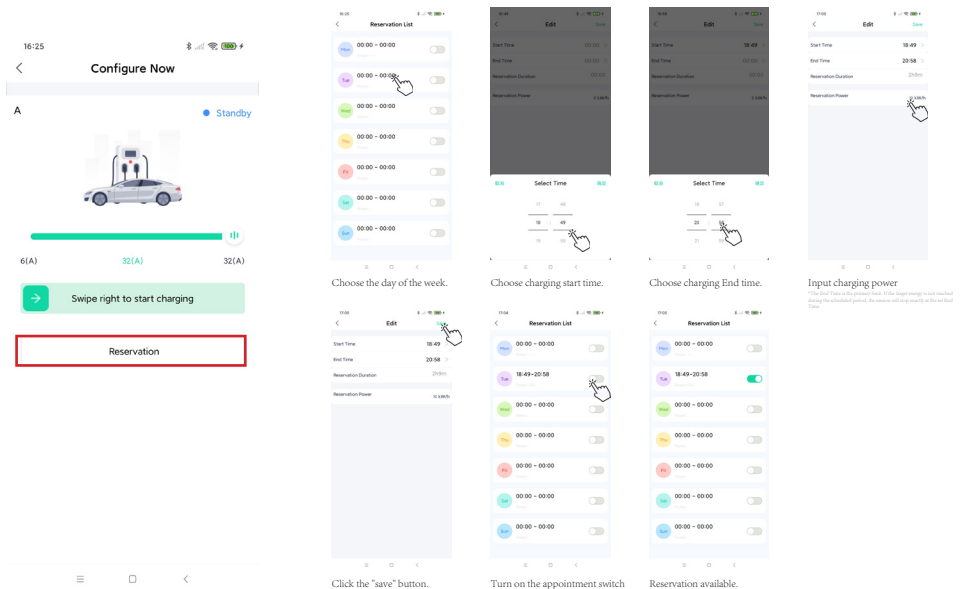
Reserved:The station is currently booked via the Reservation feature and cannot be used by others.

Unavailable:The station is out of service, disabled by the platform, or currently undergoing an OTA firmware upgrade.

Faulted: The system has detected a technical error or hardware fault. For specific error details, please go to Mine > Historical Faults.

(II) Home page - **Configure Now** - Reservation

Click the "schedule" button to enter the schedule charging page. We have preset appointment times from Monday to Sunday. If you need to make changes, click on the corresponding day of the week to enter the settings. The settings are as follows.



3.7 Enrgy Factory page

How to Access: After selecting your charging station on the Home page, tap the Energy Factory icon in the bottom navigation bar to enter the monitoring interface.

Functional Overview: The Energy Factory page provides a real-time visualization of the energy ecosystem (inverters, PV, and batteries) integrated with your charger.

Multi-Device Selection (Dropdown Menu): Located in the top-left corner (labeled as "A"), this dropdown menu allows you to switch between different connected devices. If your system includes multiple inverters or energy storage units, you can select the specific device here to view its individual data.

Power Grid & Inverter: Displays real-time Power (P), Voltage (V), and Current (C) across three phases (L1, L2, and L3). It also indicates the current energy flow status, such as "Sell Electricity" or "Buy Electricity".

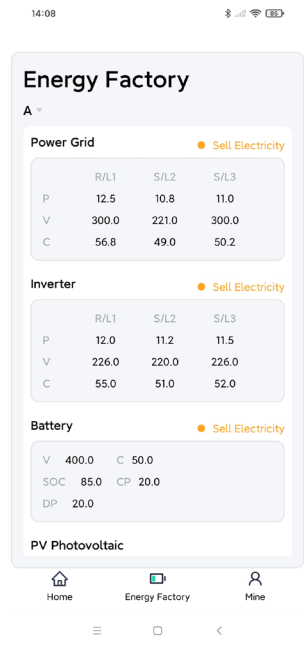
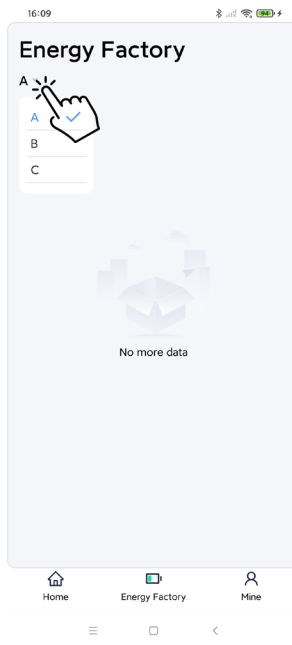
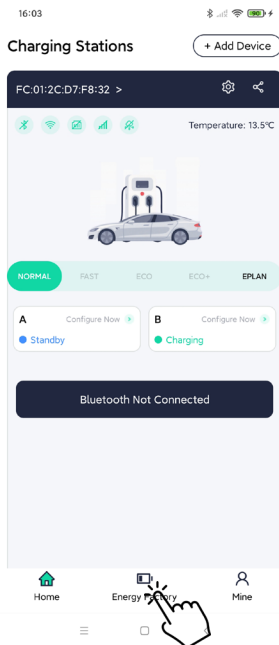
Battery Management: Monitor critical storage metrics including SOC (State of Charge), Voltage (V), Current (C), and specific charging/discharging parameters.

PV Photovoltaic: View live solar generation data to track the efficiency of your renewable energy source.

Important Notes:

Compatibility: This feature is exclusively available for Mode 3 charging stations.

Optional Configuration: The Energy Factory is an optional add-on feature. It requires specific hardware integration and must be configured by the manufacturer. If no data is displayed or the dropdown menu is empty, please contact your vendor for configuration support.



3.8 Mine page

The Mine page is the central hub for managing your personal account settings, legal agreements, and system maintenance tools.

Language Settings: Tap here to switch the App's interface language to your preferred choice.

Remote OTA: Access the Over-The-Air (OTA) update interface to check for and install the latest firmware for your charging station. Regular updates ensure your device has the latest features and security improvements.

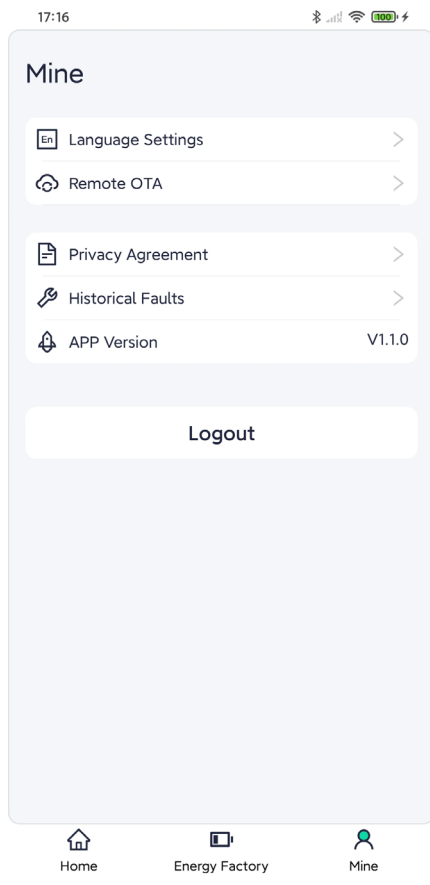
Privacy Agreement: View the data privacy policies and terms of service regarding the use of the App and your charging data.

Historical Faults: This section provides a detailed log of all past system errors and hardware alerts.

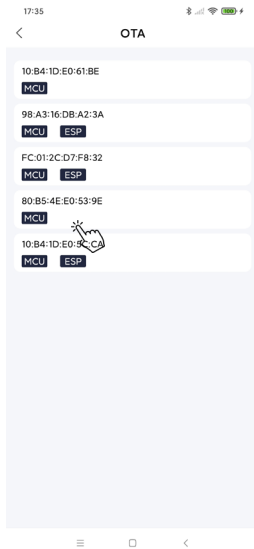
Note: If your charging gun status ever displays "Faulted," navigate to this page to find specific error codes and descriptions for troubleshooting.

APP Version: Displays the current version of the software you are using (e.g., V1.1.0).

Logout: Tap this button to securely sign out of your current account.



(I) Mine page - Remote OTA



The Remote OTA (Over-The-Air) page allows you to upgrade your charging station's firmware wirelessly to ensure optimal performance and access to new features.

Interface Guide:

Device Identification: Each charging station is listed by its unique MAC Address.

Update Modules: Under each device, you will see buttons for MCU (Main Control Unit) and/or ESP (Communication Module), depending on available updates.

Crucial Update Rules: To ensure a successful upgrade and prevent system errors, please strictly follow these requirements:

No Simultaneous Updates: Do not initiate the MCU and ESP updates at the same time for the same device.

Sequential Process: You must select one module (e.g., MCU) and wait for the update to complete successfully.

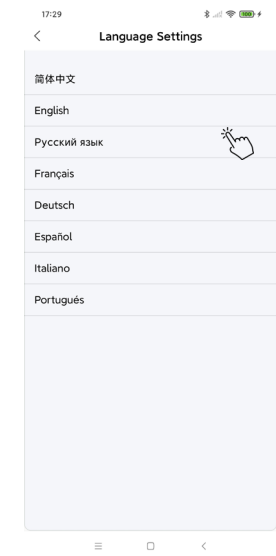
Restart Required: After the first module has finished updating and the device has restarted and reconnected, you may then proceed to select the other module (e.g., ESP) for its update.

NOTED:

During the system upgrade, please do not cut off the power. The App can be disconnected during the upgrade process. After the upgrade is completed, the device will restart automatically. The final upgrade result is subject to the state after the device is restarted.

Warning: Attempting to update both the MCU and ESP modules simultaneously on a single device may cause the upgrade to fail or damage the device's firmware.

(II) Mine page - Language Settings



Language Settings:

The Language Settings menu allows you to customize the App interface with your preferred language.

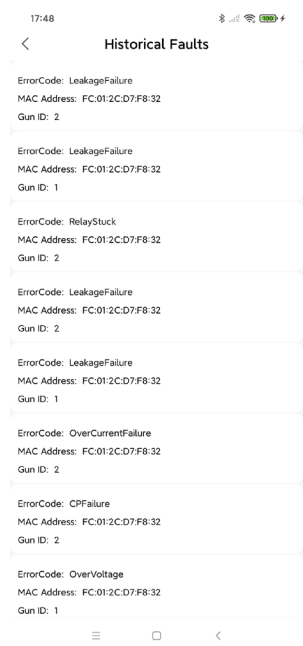
How to Change Language:

Navigate to Mine > Language Settings.

The App supports multiple languages, including English, Chinese, French, German, and more.

Action: Simply tap on your desired language from the list to switch the interface language immediately. No additional confirmation is required.

(III) Mine page - Historical Faults



The Historical Faults page provides a comprehensive log of all technical errors and hardware alerts detected by your charging stations. This record is a vital tool for troubleshooting and communicating with technical support.

Interface Details: Each fault entry in the list contains the following specific information:

Error Code: Displays the specific nature of the failure (e.g., "LeakageFailure").

MAC Address: Identifies exactly which charging station reported the issue.

Gun ID: Specifies which connector was involved in the fault ("1" for Connector A, "2" for Connector B).

Troubleshooting Advice:

If your device status indicator on the Home page displays "Faulted," please navigate to this page immediately.

Review the Error Code and Gun ID to understand the root cause of the interruption.

For persistent issues, take a screenshot of this page and provide it to the manufacturer's technical support team for faster resolution.

(IV) Mine page - Remote OTA - Manufacturer Factory Mode

This is a hidden engineering interface intended for professional installers or technical support. Incorrect configurations in this menu may cause the charging station to disconnect from its management platform.

How to Access:

Navigate to Mine > Remote OTA.

Long-press the "OTA" header label at the top of the screen for 3 seconds to unlock the Manufacturer Factory Mode.

Prerequisites: Bluetooth Connection Required: Your smartphone must be actively connected to the charging station via Bluetooth to access and modify these settings offline.

Key Configuration Options:

OCPP Platform Migration (WSS & ID):

WSS: Manually input a new WSS address (WebSocket Secure) to redirect the charger to a different OCPP management platform.

ID: Modify the ChargeID (Station Identity) as required by the new platform.

Tap Save next to each field to apply the changes.

QR Code Customization:

This section allows you to update the QR code URI displayed on the charging station's physical screen.

Dual-Gun Identification: For charging stations with two connectors, you must use suffixes to distinguish between the display areas:

Add _1 after the URI (e.g., URI_1) for the Gun A display area.

Add _2 after the URI (e.g., URI_2) for the Gun B display area.

Limit: Only one QR code area can be modified and saved at a time

