Screen Operation Manual

Table of Contents

1.Home Page (Figure1)

① Current System Time — 2025-07-09 14:49

② WiFi

③ Idle State — **Preparing**

④ Charging ID — Charger ID:202503100001

⑤ Existing Output Current

Existing Output Current:80A

Scan RFID card below the screen to start charging

⑥ Charge Mode

⑦ Home Page

⑧ Setting

【**Figure**1：**Home Page**】

2. Charging

2.1 Starting Charging (Figure 2)

1.   **Charging Initiation**

   o   The charging pile immediately starts the charging process when Plug & Charge (automatic recognition) is enabled or after successful RFID card authentication.

   o   The system switches to the "Charging in Progress" interface.

2. **Real-Time Data Monitoring**

   o   Dynamically displays key charging parameters:

   ✓ **Charging duration** (real-time accumulation)

   ✓ **Energy delivered** (kWh, continuously updated)

   ✓ **Power** (kW, dynamic fluctuations)

   ✓ **Current/Voltage** (real-time values with dynamic effects)

   ✓ **Battery status** (dynamic graphic/progress bar showing charging progress)

3. **Interface Features**

   o   All data refreshes every second to ensure real-time accuracy.

   o   Voltage/current values dynamically fluctuate based on load changes.

   o   Battery visualization uses animated charging effects (gradient fill with percentage growth).
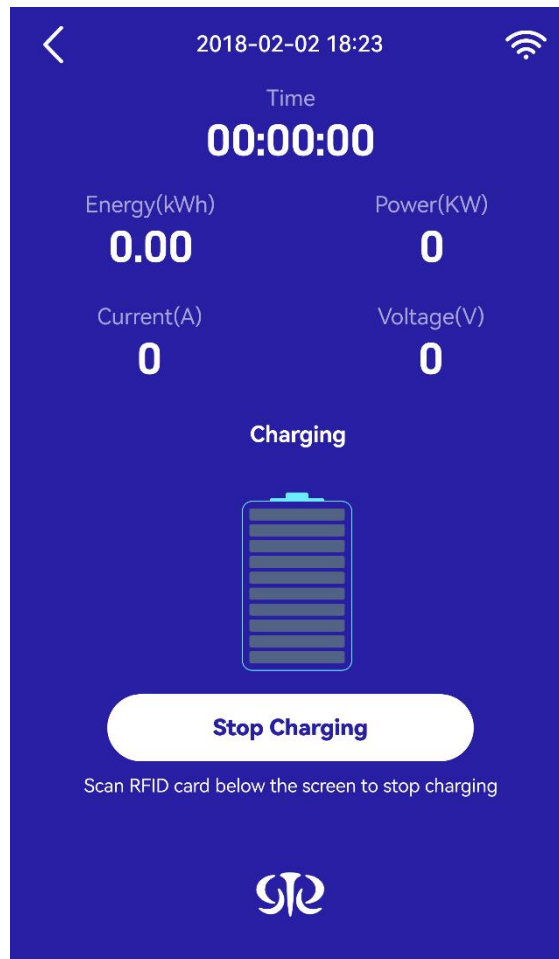
【Figure2：Starting Charging】

2.2 Stop Charging (Figure 3)

Charging Termination Methods

1. **Stop charging on the touchscreen**

   o   Click the "Stop Charging" button on the charging station screen

   to terminate the charging process.

2. **Manual Disconnect**

   o   Simply unplug the charging cable to automatically terminate the

   charging process.

3. **RFID Card Verification**

○ Swipe a registered RFID card at the charger's recognition zone to securely end the charging session after system validation.
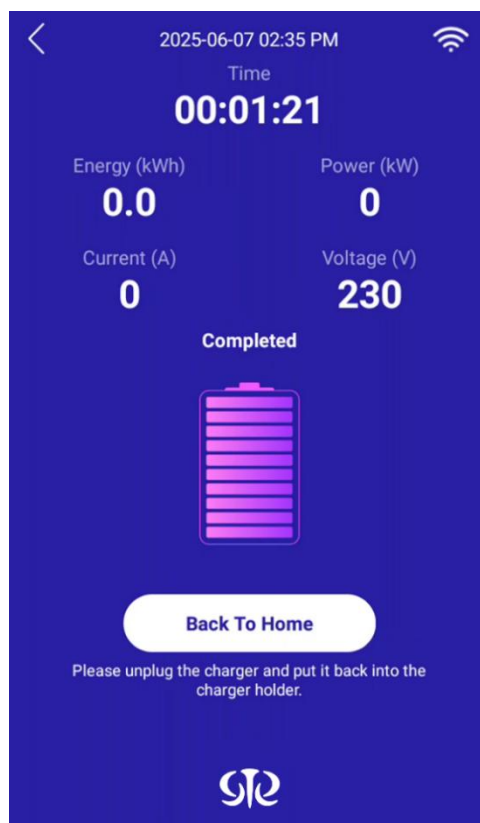

【Figure3：Stop Charging】

3. Setting (Figure 4)

On the homepage, click the "Settings" ⚙️ button to enter the settings page (Figure 4). On this page, you can perform the following operations and settings:

• **Charging-related**: View charging records and error logs, switch charging modes, and set the current.

• **System-related**: Configure date and time settings, view device information, and access advanced settings.
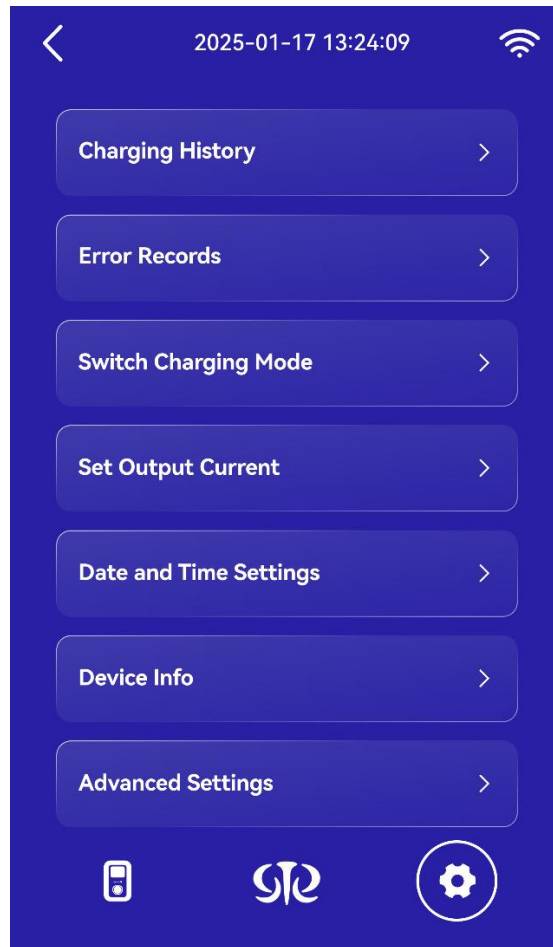
【**Figure**4：Setting】

3.1 Charging History (Figure 5)

On the settings page, click the [Charging History] option to enter the

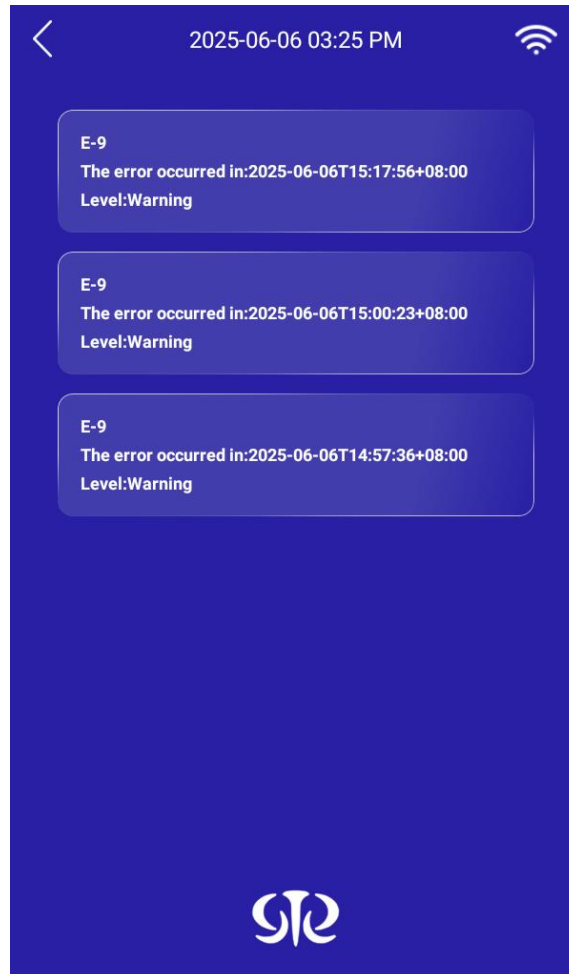charging history page, where you can view all charging records.
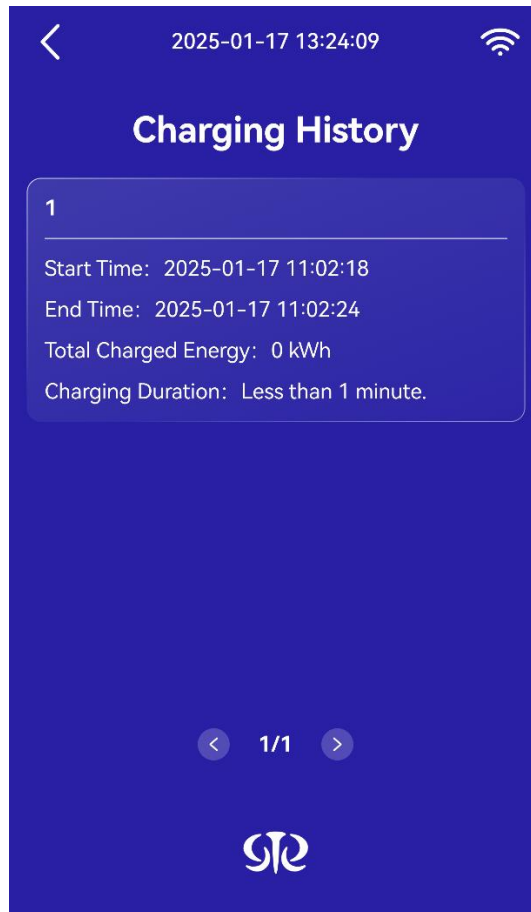
【**Figure** 5： Charging History】

3.2 Error Records （Figure 6)

On the settings page, click the [Error Records] option to enter the error

history page, where you can view all error records.

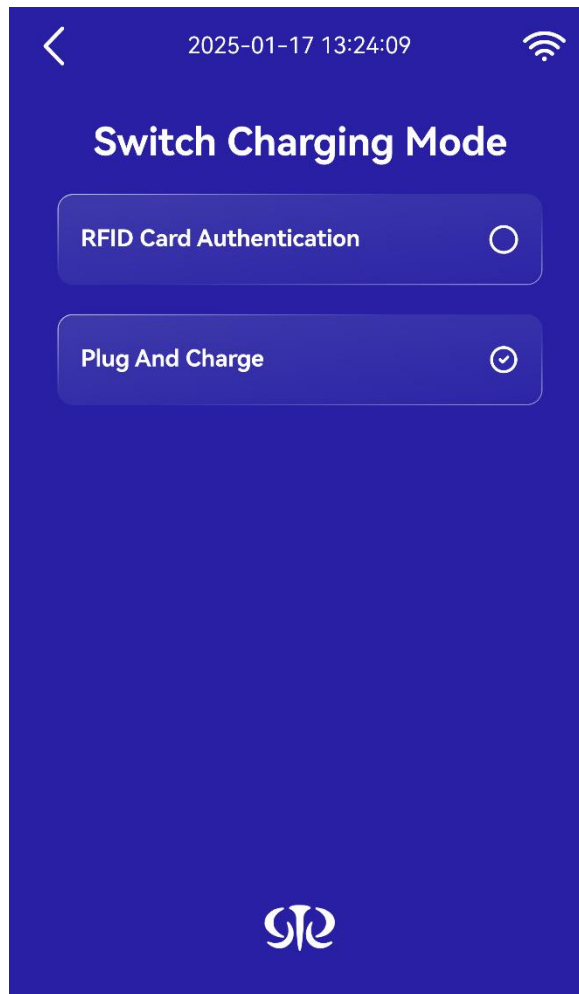【**Figure** 6： **Error Records**】

3.3 Switch Charging Mode (Figure 7)

On the settings page, click the **[**Switch Charging Mode**]** option to enter the charging mode selection page, where you can choose the desired charging mode:

• Select [Card Swipe Charging] to successfully activate card swipe mode.

• Select [Plug-And-Charge] to successfully enable plug-and-charge mode.

【**Figure** 7：**Switch Charging Mode**】

3.4 Set Output Current (Figure 8)

On the settings page, click the [Current Setting] option to open the

current adjustment interface, which displays four default options: 32A, 40A,

48A, and 80A.

● For more choices, click the [More Options] button to freely adjust the

current within the range of 6A-80A.

● After selecting the desired current, click the [Confirm] button to complete

the current setting.
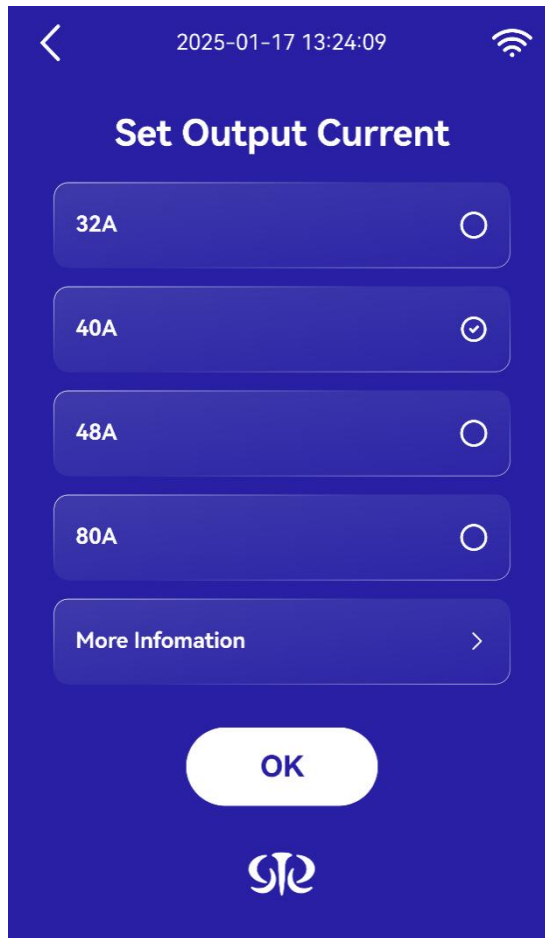
【**Figure**8：Set Output Current】

3.5 Date and Time Settings

On the settings page, click the [Date & Time Settings] option to access

the configuration interface, which operates under the following logic:

• **Auto-sync Mode**: When the [Date & Time Zone] toggle is enabled, the

system automatically retrieves the device's system time. In this state,

the [Set Time] function is disabled, as date and time synchronization is

handled automatically.

• **Manual Mode**: When the [Date & Time Zone] toggle is disabled, the [Set

Time] function becomes editable, allowing users to manually input or adjust

date and time parameters.

Note：When the system time is manually adjusted, the device will trigger an automatic reboot mechanism to ensure time synchronization and system stability.
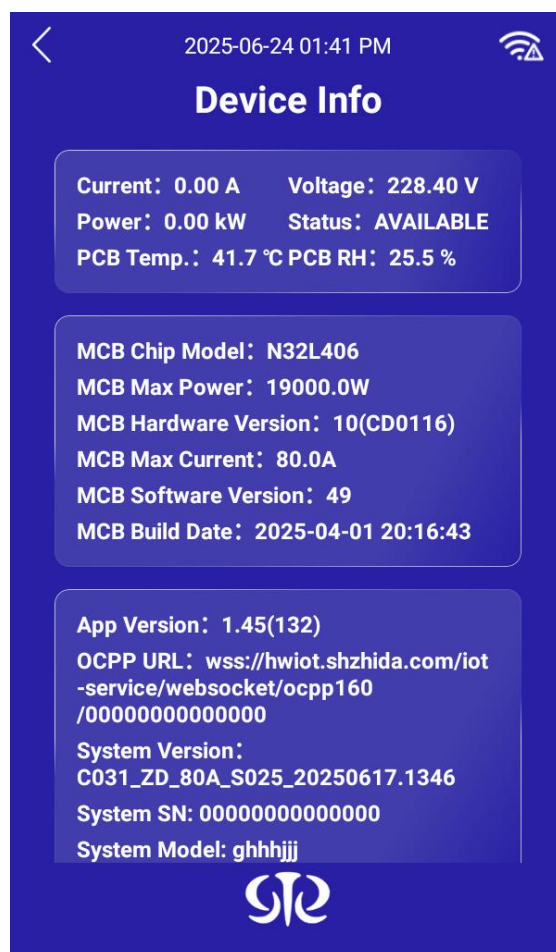
3.6 Device Info (Figure 9)

On the settings page, click the **[Device Information]** option to access the device information interface, where you can view the following basic device details:

• **Electrical Parameters**: Current, voltage, power, status, PCB temperature;

• **Hardware Information**: MCB chip model, MCB maximum power, MCB hardware version, MCB maximum current, MCB software version, MCB software compilation time;

The MCB (Main Control Board) is the core control unit in our equipment, where we integrate the MCU and related control circuits to centrally manage communication, control logic, status monitoring, and other functions.

• **Software Information**: APP version, OCPP address, system firmware version, system SN (serial number), device model.

【Figure9: Device Info】

4. Advanced Settings (Figure 10)

Advanced Setting is reserved for the ADMIN to manage the various advanced features of the chargers. Typically, the trained technician with electrician training should perform the ADMIN role.

**The DEFAULT ADMIN Access Code: 1234**

The DEFAULT ADMIN Access Code can be modified to a 4-digit number specific to the ADMIN. It is ADMIN's responsibility to keep the Access Code CONFIDENTIAL. Any misplaced or mis-used Access Code will disrupt the charging business operation.

To recover the misplaced or forgotten Access Code, the ADMIN has to contact manufacturer SUPER ADMIN by emailing to service@zdenergy.com

Advanced settings can only be modified after password verification with the following steps.

1. Enter the Settings page.

2. Select the "Advanced Settings" option.

3. Enter the password "1234" and click Confirm.

4. After entering the Advanced Settings page, the following configurations can be performed:
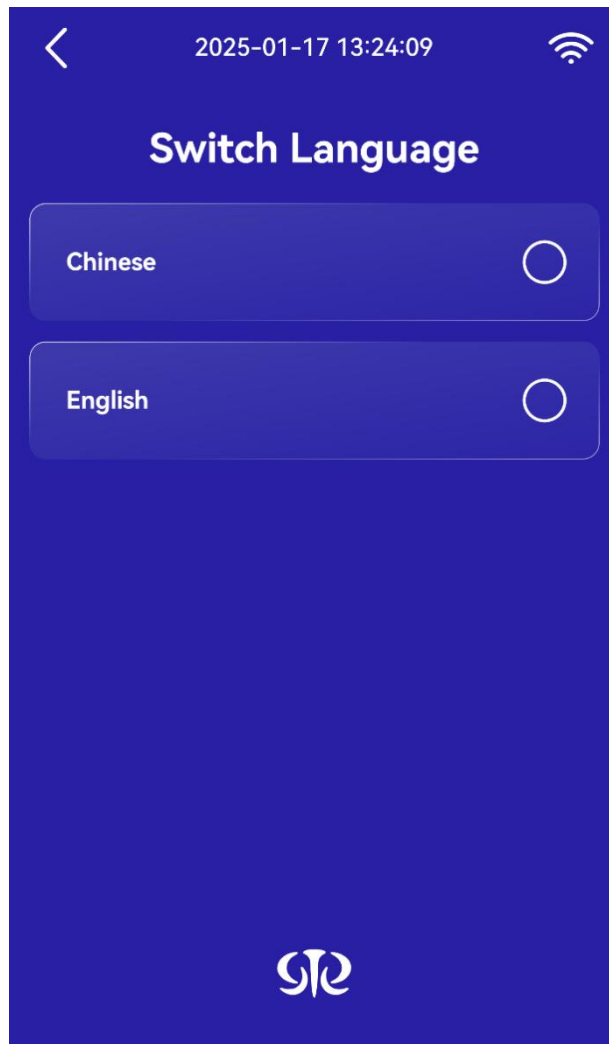
   - Switch system language

   - Set OCPP URL

   - Add/manage RFID cards

   - Change ADMIN ACCESS CODE

   - Enable/disable screensaver function
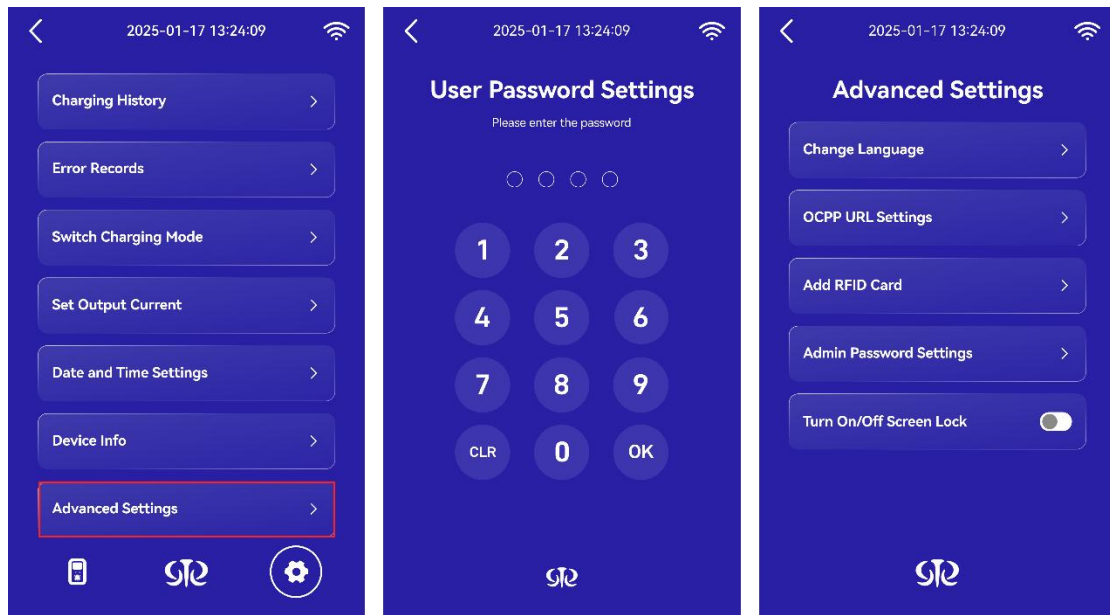
【**Figure** 10: **Advanced Settings**】

4.1 Change Language (Figure 11)

On the Advanced Settings page, select the "Change Language " function to change the system display language. Both **Chinese** and **English** options are supported.

【**Figure** 11：**Change Language**】

4.2 OCPP URL Settings (Figure 12)

OCPP Settings are reserved for System Administrator to enter the

Charger Connectivity to the backend system, typically a cloud application.

Unauthorized person should NOT change the OCPP Settings. The mis-informed

OCPP Settings will disrupt the charging business operation.

On the Advanced Settings page, select the **"OCPP URL Settings"** option

to configure the following parameters:

- **Charger ID**

- **Charger Server URL**

- **Charger Server Token** (Fill in according to server requirements; leave blank if not required)

After the modification of OCPP Settings, click "OK" to save the data entry.

The charger will automatically to reboot itself to make the changes effective. The charger will point to the new backend system.

Notes:

- Ensure the entered information matches the server requirements.

- If unsure whether a Token is required, consult the server backend development team for confirmation.

- It is charger owner's responsibility to keep the above Access Code CONFIDENTIAL. Any misplaced or mis-used Access Code will disrupt the charging business operation.
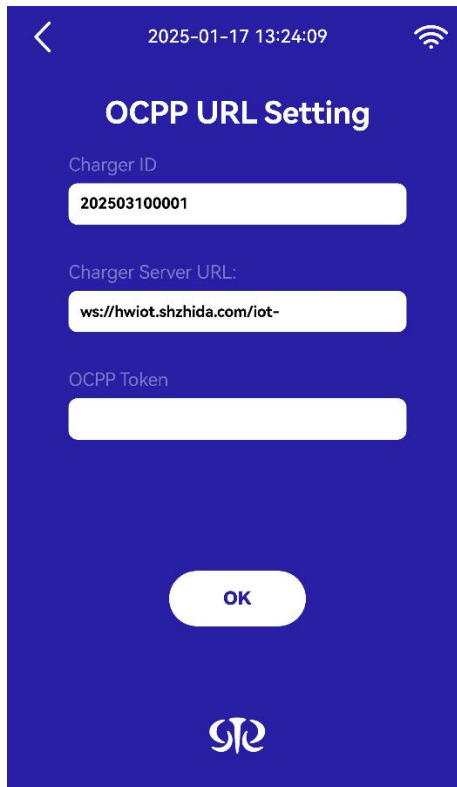
【**Figure** 12：OCPP URL Settings】

4.3 Add RFID Card (Figure 13)

On the Advanced Settings page, select the "Add RFID Card" option to enter the RFID Card Management screen. On this screen, users can perform two core operations: Add Card and Delete Card.

Add Card

- Tap the RFID card near the device's card reader.

- A **"beep"** sound indicates successful card number recognition.

- The system will automatically display an "Add Confirmation" pop-up window.

- Click the "Add" button to successfully register the RFID card.

Delete Card

- For RFID cards that are no longer in use, perform the Delete operation to revoke their access permissions promptly, ensuring system security.

Tips:

- Hold the card firmly against the reader and avoid pulling it away too fast.

- If no prompt appears, check whether the card is valid or reposition it.
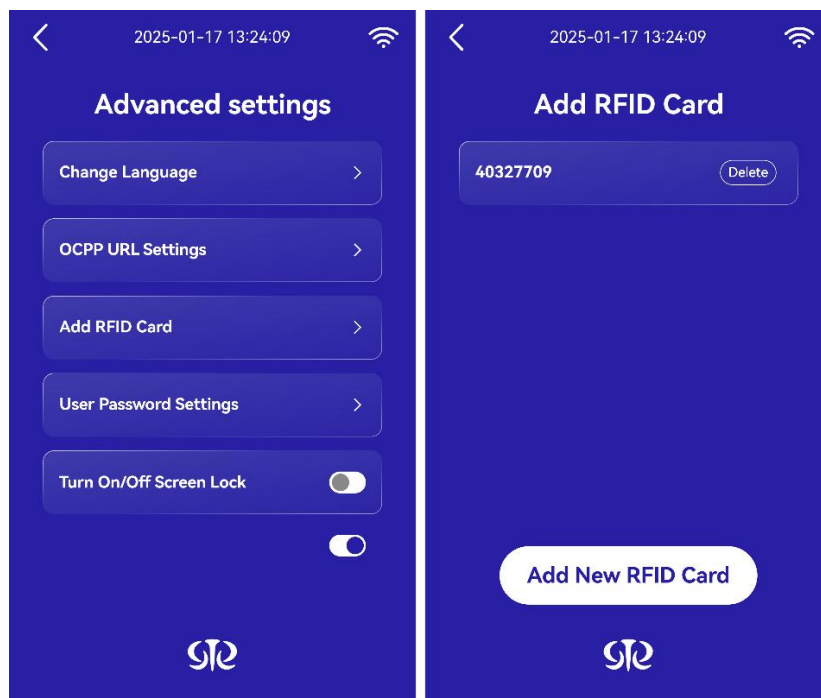
【**Figure** 13: **Add RFID Card**】

4.4 ADMIN Password Settings

The default ADMIN ADMIN ACCESS CODE out of manufacturer plant is: **1234**

From this screen, the ADMIN can change the ADMIN ACCESS CODE specific to the organization.

Caution: Please RECORD THE NEW ADMIN ACCESS CODE once it is

changed!!!

If the new ADMIN Password is misplaced or forgot, the ADMIN has to

contact the SUPER ADMIN from the manufacturer to re-set the ADMIN

password.

4.5 Turn On/Off Screen Lock

Two Operation Modes: On/Off

1. **On Mode**

   o   When the screensaver function is enabled:

   ✓ Customizable screensaver activation time can be set

   ✓ The device will automatically enter screensaver mode after

   remaining inactive for the pre-set duration

2. **Off Mode**

   o   When the screensaver function is disabled:

   ✓ The system will not activate any screensaver function

   ✓ The screen will remain constantly lit (according to the device's

   default settings)