

ahlsell

User Manual

Charge Box App

EV Car Charger



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a·collection

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SE 2700025
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Index

1. Overview	3
2. The name of the charging station and the Bluetooth	3
3. APP Installation page	3
3.1 Quick installation instruction	3
3.2 Installation notes	4
3.2.1 Guide to turn on the Bluetooth page	4
3.2.2 Guide to turn on the location page	5
3.2.3 Guide to turn on the Wi-Fi page	6
4. APP operation page	6
4.1 First use	6
4.2 Connect the charging station for the first time	7
4.3 Quickly connect the charging station	8
4.4 Quickly switch charging stations	8
4.5 Instruction on fast charging	9
4.6 "Communication password prompt" page	10
4.7 "Special page-communication delay" page	11
4.8 "Special page-pull down to refresh charging" page	11
4.9 "Charging homepage" page	12
4.10 "Charging" page	13
4.11 "Stop charging" page	13
4.12 "Custom charging-Single charging" page	14
4.12.1 "Custom charging-Single charging-Quantitative charging" page	14
4.12.2 "Custom charging-Single charging-Timed charging" page	15
4.12.3 "Custom charging-Single charging-Timed and quantative charging" page	15
4.12.14 "Custom charging-Single charging-Scheduled charging" page	16
4.13 "Custom charging-Periodic charging" page	16
4.14 "System failure" page	18
4.15 "Charging records-My records" page	19
4.15.1 "Charging records-My records" page	20
4.15.2 "Charging records-All records" page	20
4.15.3 "Charge records-Charging statistics-Day statistics" page	20
4.15.4 "Charging records-Charging statistics-Month statistics" page	20
4.16 "Information prompt" page	21
4.17 "System settings-About charger" page	21
4.18 "System settings-Firmware upgrade" Page	22
4.19 "System settings-General settings" Page	23
4.19.1 "System settings-General settings-Modify charger password" page	23
4.19.2 "System settings-General settings-Charger Wi-Fi settings" page	24
4.19.3 "System settings-General settings-Charger name" page	24
4.19.4 "System settings-General settings-Start charging by button" page	25
4.19.5 "System settings-General settings-Temperature type" page	25
4.20 "User settings" Page	26
4.20.1 "User settings-Change nickname" Page	26
4.20.2 "User settings-Nickname" page	27
4.20.3 "User settings-FAQ" page	27
4.20.4 "User settings-Privacy policy"	27
4.20.5 "User settings-About" page	27

1. Overview

EVSE Master APP is a mobile phone APP for smart charging station, which is divided into Android and iOS versions. This APP is connected to the charging station via Bluetooth on mobile phone or WIFI for data interaction. Its main function is to monitor the status of the charging station, control the start and stop of the charging station for charging, set the charging mode, check and count the charging records, and upgrade the firmware wirelessly. The APP uses Bluetooth on mobile phone or WIFI LAN for data communication. The communication method is to connect through the Bluetooth channel for the first time, and after setting the WIFI communication parameters, the WIFI channel communication is performed. When both communications are valid, the APP automatically switches to WIFI priority. Note on communication distance. Bluetooth communication is a point-to-point communication between the mobile phone and the Bluetooth module of the charging station, and its effective distance is about 10 meters in an open field; WIFI communication is to make the mobile phone and the charging station connected to the same WIFI router, and its effective distance is determined by the signal distance of the WIFI router, under the condition that both the charging station and the mobile phone are within the signal range of the WIFI router. No matter which method exceeds the communication distance, the charging station cannot be operated.

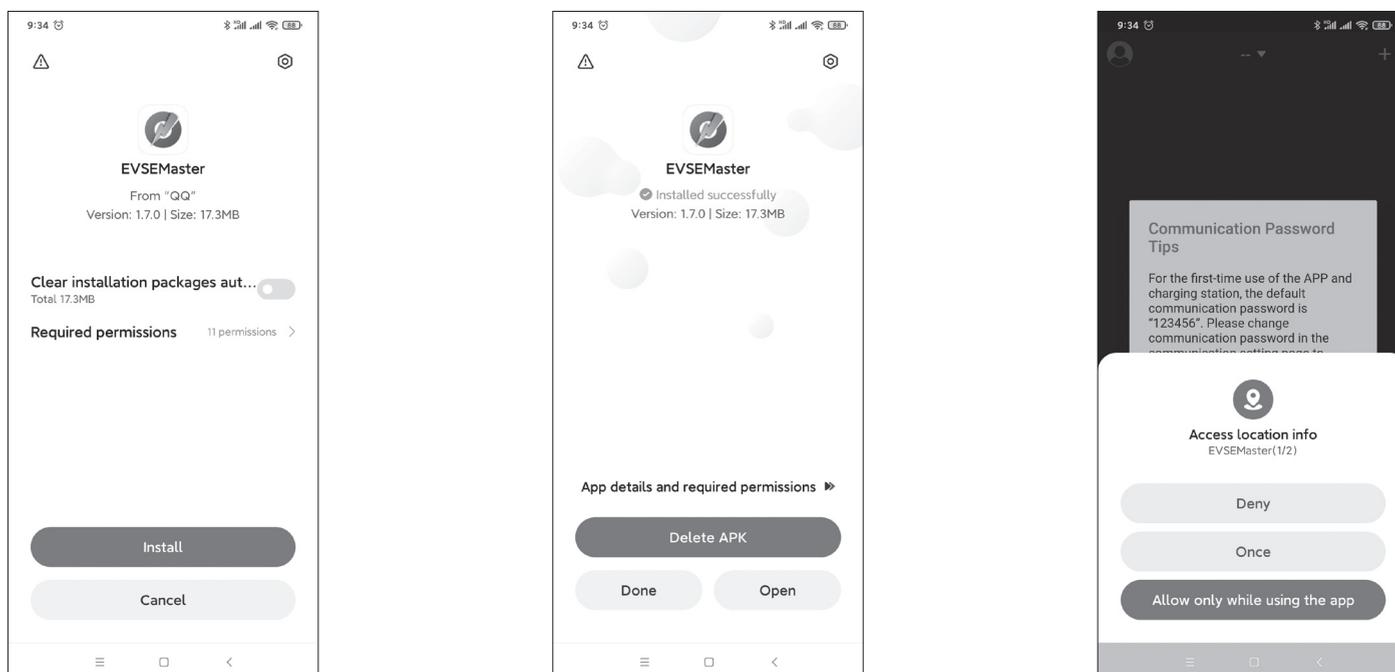
2. The name of the charging station and the Bluetooth

The name of the charging station is composed by “ACP#EVSEXXXX”, that is, the prefix “EVSE” plus the last 4 digits of the charging station number, such as EVSE1234. The name of the Bluetooth module that comes with the charging station is “ACP#EVSEXXXX”, that is, the prefix “ACP#” plus “the name of the charging station”, such as ACP#EVSE1234. The default name of the charging station at the factory is “EVSEXXXX”, which is displayed at the top of the APP homepage, indicating which charging station is currently connected, as well as shown in the upper left corner of the charging station display. If the two names are inconsistent, they should be modified again through the page “System Settings-General Settings-station Name” below. The default name of Bluetooth module of the charging station is “ACP#EVSEXXXX” at the factory, which is shown when searching for available charging stations below, such as ACP#EVSE1234. When modifying the name of the charging station below, the corresponding places will also be modified.

3. APP Installation page

3.1 Quick installation instruction

Download the APP software from the official website and install it. The quick installation instruction is as follows:





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3.2 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.

3.2.1 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:

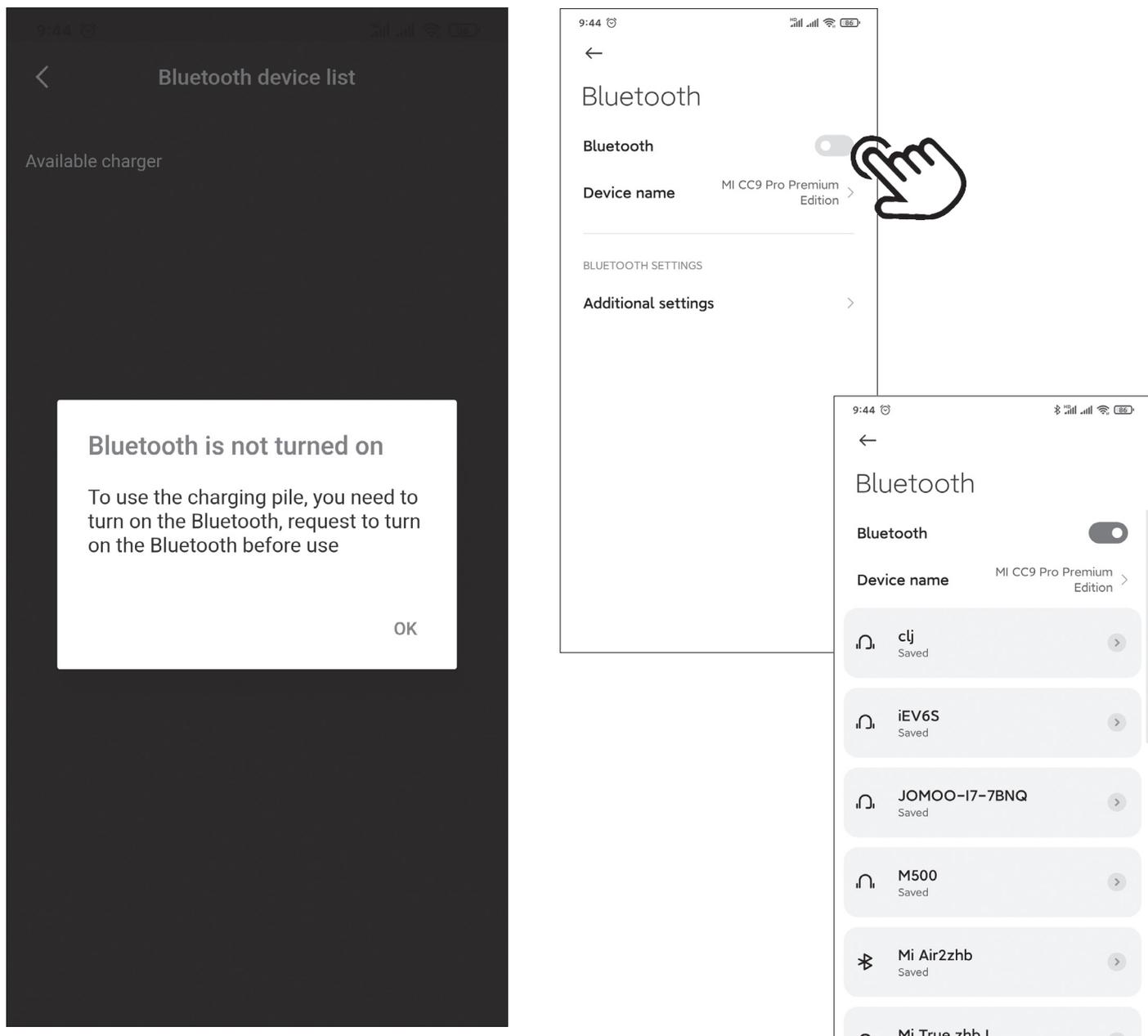


Figure 2 - Guide to turn on the Bluetooth page

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3.2.2 Guide to turn on the location page

When searching for the charging station, if the location service is not turned on, it will prompt to turn on location access:

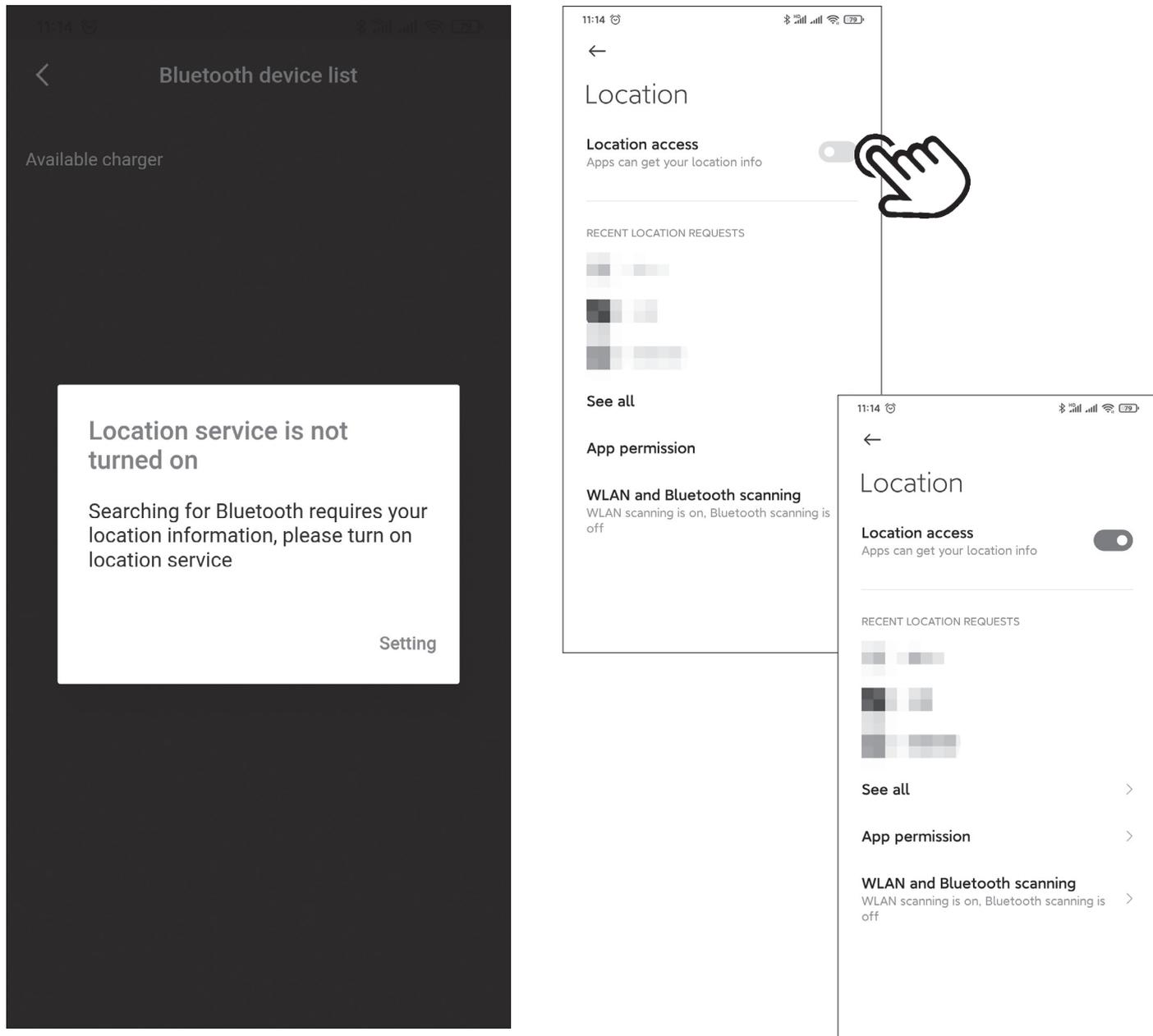


Figure 3 - Guide to turn on the location page



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3.2.3 Guide to turn on the Wi-Fi page

When setting the Wi-Fi communication parameters of the charging station, if Wi-Fi is not turned on, it will prompt to turn on Wi-Fi:

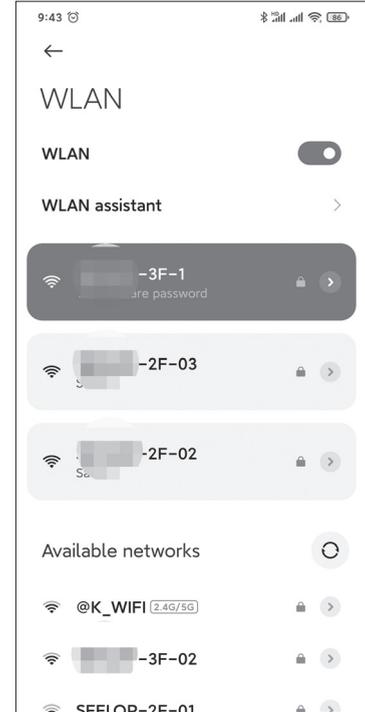
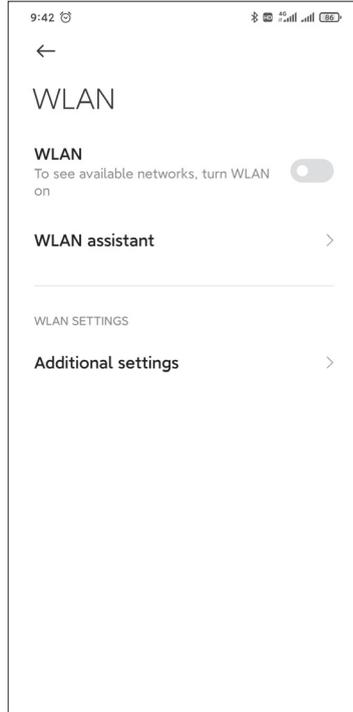
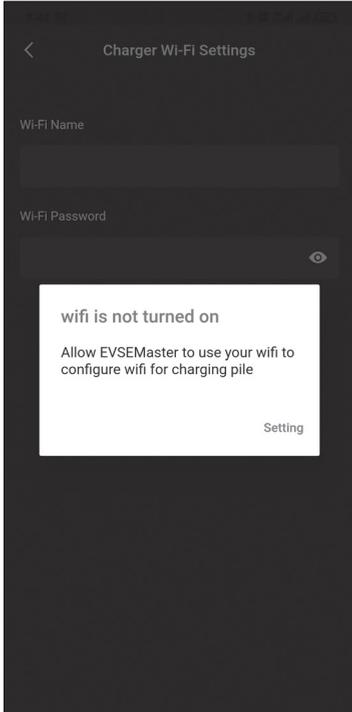


Figure 4 - Guide to turn on Wi-Fi page

4. APP operation page

4.1 First use

It will prompt that some certain permissions should be used and to modify the communication password in time for the first using:

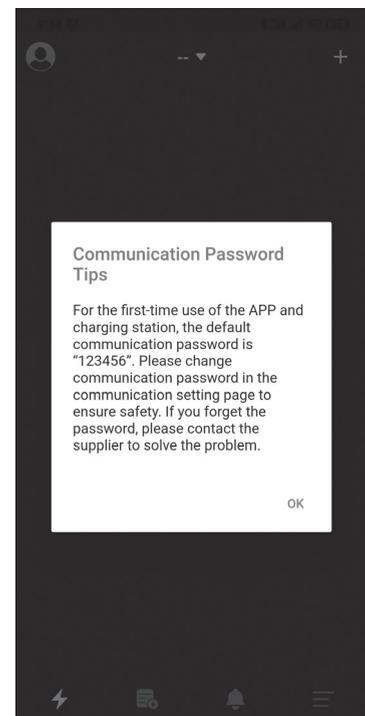
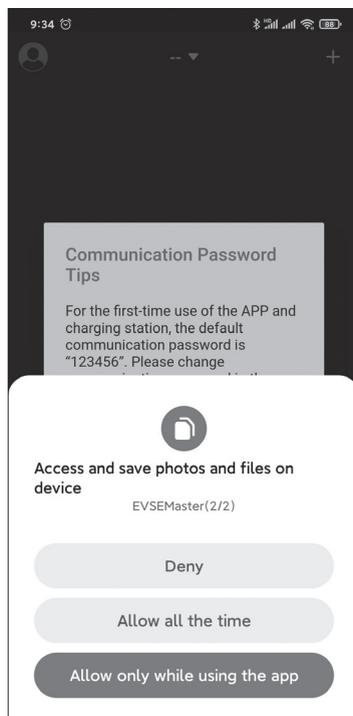
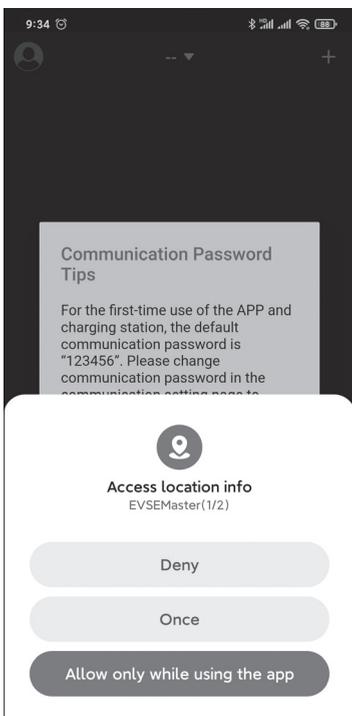


Figure 5 - First use page

4.2 Connect the charging station for the first time

It will prompt “Not connected to charging station, press button to start connection” when you open the APP. If it is the first connection, you need to press the “+” in the upper right corner of the page to search for the charging station. When the connectable charging station is searched, you can click to connect, then the connection is successful. Note that there are many Bluetooth charging stations used by users, but the APP will only search for Bluetooth charging stations. When there are multiple charging stations to be connected, you also need to select and connect on this page.

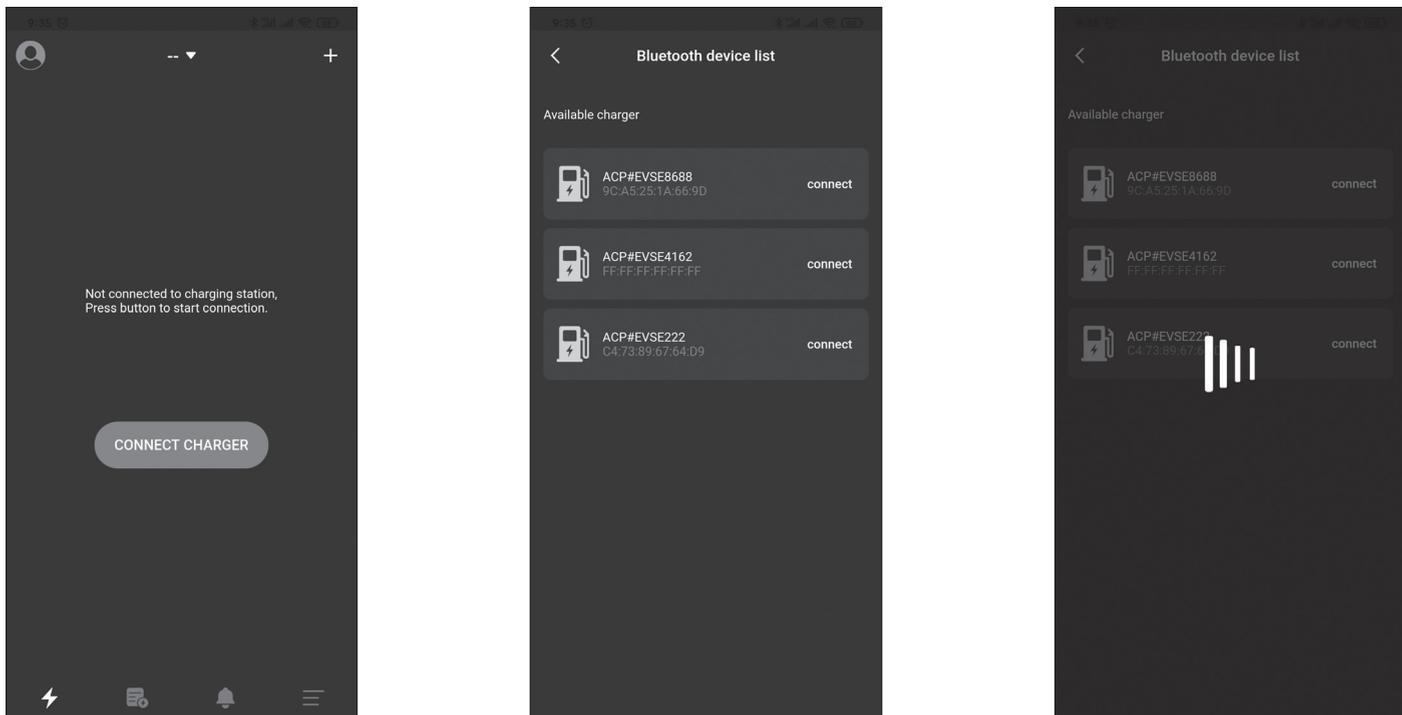


Figure 6 - The first connection to the charging station page



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4.3 Quickly connect the charging station

After the process of connecting to the charging station for the first time is finished, the APP will record the last connected charging station. When the charging station is turned on again, the APP will automatically connect to the charging station or you can press the button “CONNECT CHARGER” to actively connect. If the charging station is not turned on, it cannot be connected. At this time, you need to click the “+” in the upper right corner of the page to search for the charging station and try to connect to other charging station.

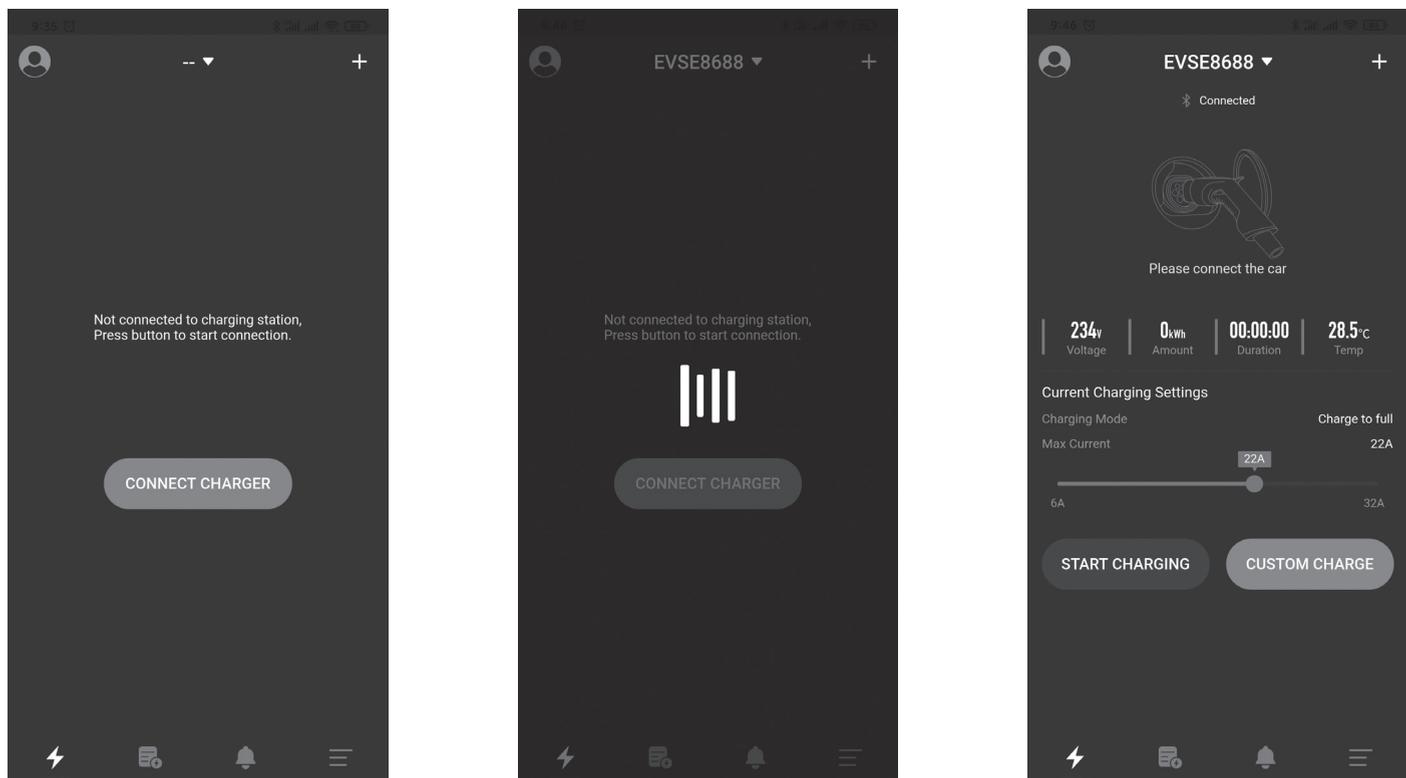


Figure 7 - Quickly connect the charging station page

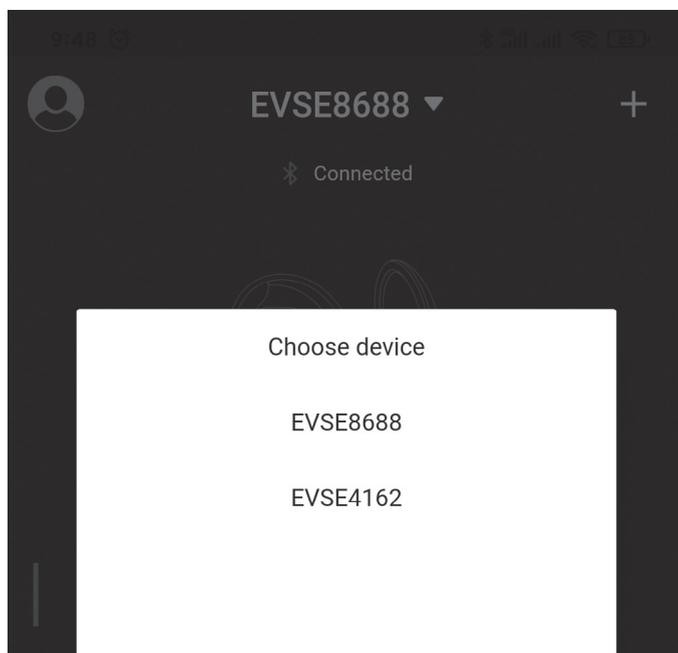


Figure 8 - Quickly switch charging station

4.4 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, you can also click on the charging station name as shown below, and then select the charging station from the drop-down list. The switching process takes about 5s and the connection will fail if the charging station is offline. If it is not turned on, it cannot be connected. At this time, you need to click the “+” in the upper right corner of the page to search for the charging station and try to connect to other charging station.

4.5 Instruction on fast charging

The following 5 pages respectively in order are prompting to insert the gun page, waiting to start page, waiting for the car to be ready page, charging page, and prompting to pull the gun after charging finished. Instructin on fast charging is as shown to be operated in the following sequence (from left to right, from top to bottom) to complete one charging:

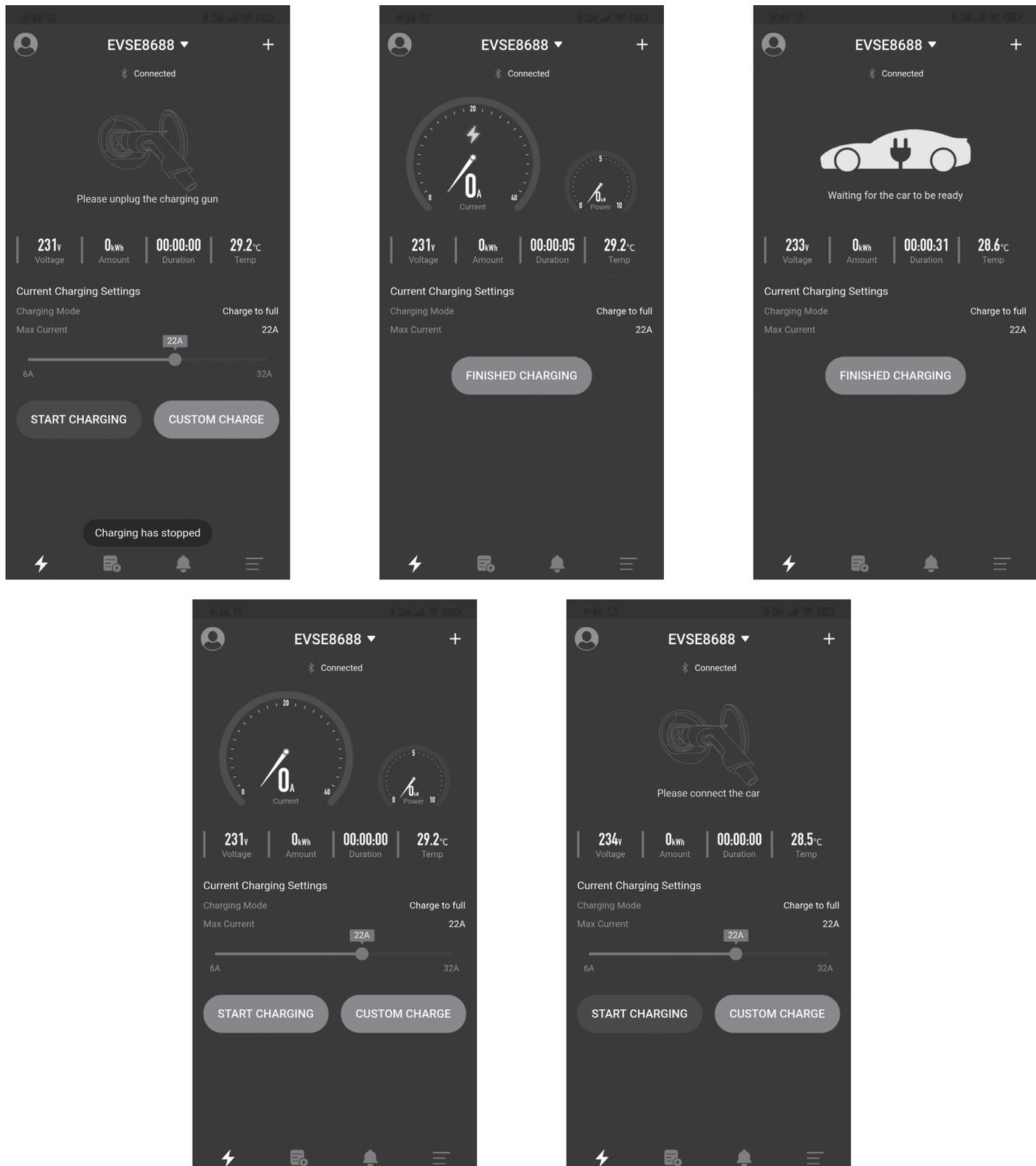


Figure 9 - Fast charging page



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4.6 "Communication password prompt" page

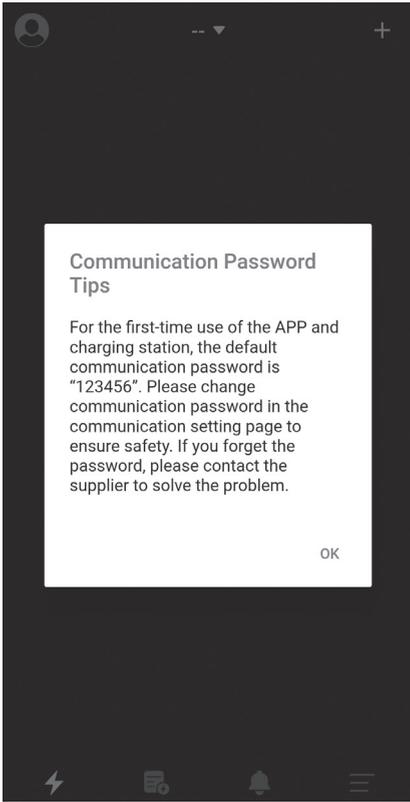


Figure 10 - Communication password prompt page

When the program is run for the first time, the system will prompt to modify the communication password, with the content being "For the first-time use of the APP and the charging station, the default password is "123456". Please change communication password in the communication setting page ensure the safety. If you forget the password, please contact the supplier to solve the problem".

It is only prompted during the first installation, and there will be no prompt afterwards. This prompt is very important, and you need to go to the setting page to change the password after connecting the charging station. The password must consist of 6 digits, and it is best not to use the default password "123456". If the password is not changed, the charging station may be operated by other APP installers.

If the charging station password is changed and it is inconsistent with the mobile phone APP password, it will prompt to enter the correct password before it can be used. This also protects the user's charging station from being used by unauthorized persons.

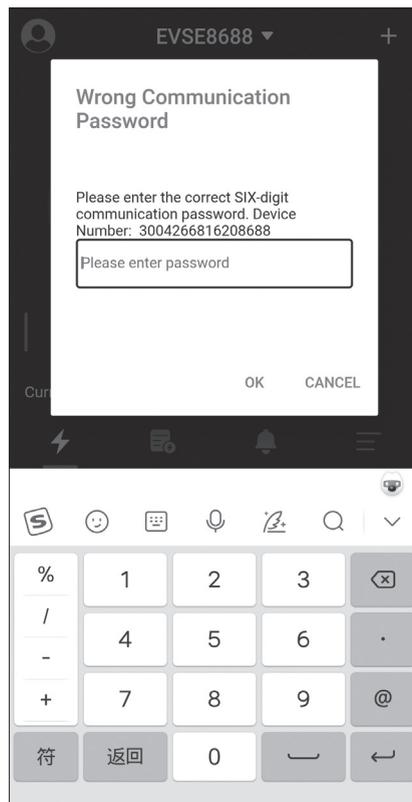
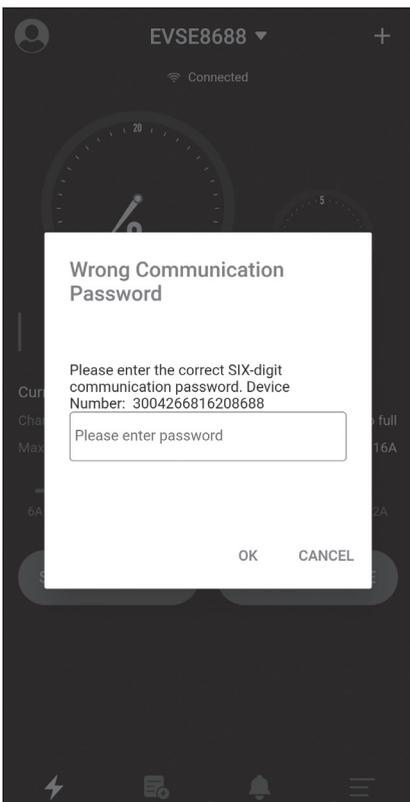


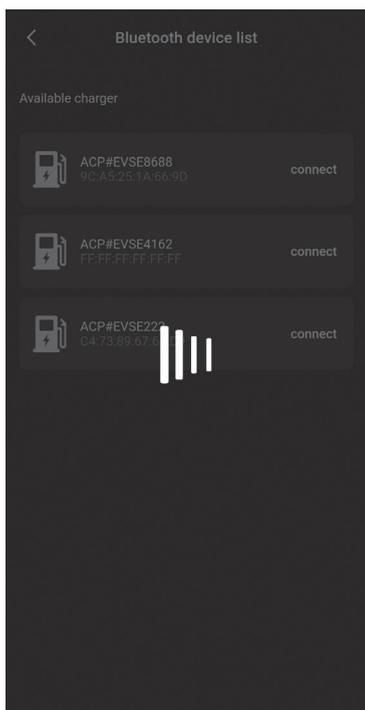
Figure 11 - Prompt to enter the communication password page

The common situations where the communication password is entered are:

1. The communication password of the charging station is changed, and different mobile phones are connected.
2. The communication password of the charging station is changed, and the mobile phone reinstalls the APP.

If you do forget the password, you can take a screenshot as shown in the figure below and send it to the supplier, and then you can get help from the operator.

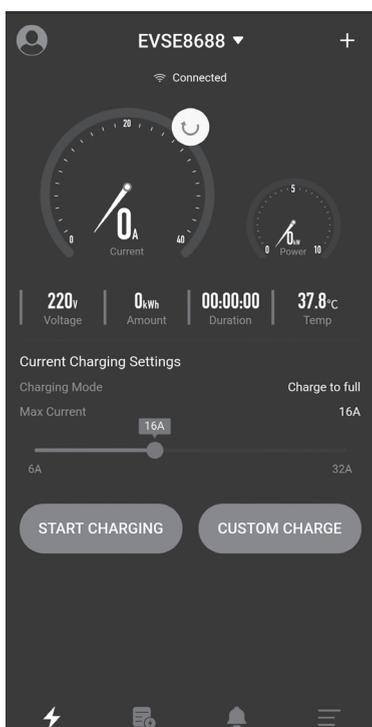
4.7 "Special page-communication delay" page



Open the APP to communicate with the charging station. When the communication data is delayed, there will be a waiting page as shown in the figure above. If the page has no response after waiting for more than 5 seconds, you can click the page to stop waiting and try again, and check whether the charging station is offline.

Figure 12 - Communication delay page

4.8 "Special page-pull down to refresh charging" page



If you need to update the data in time on the charging main page, you can slide down the page to refresh the data.

Figure 13 - Establish connection page



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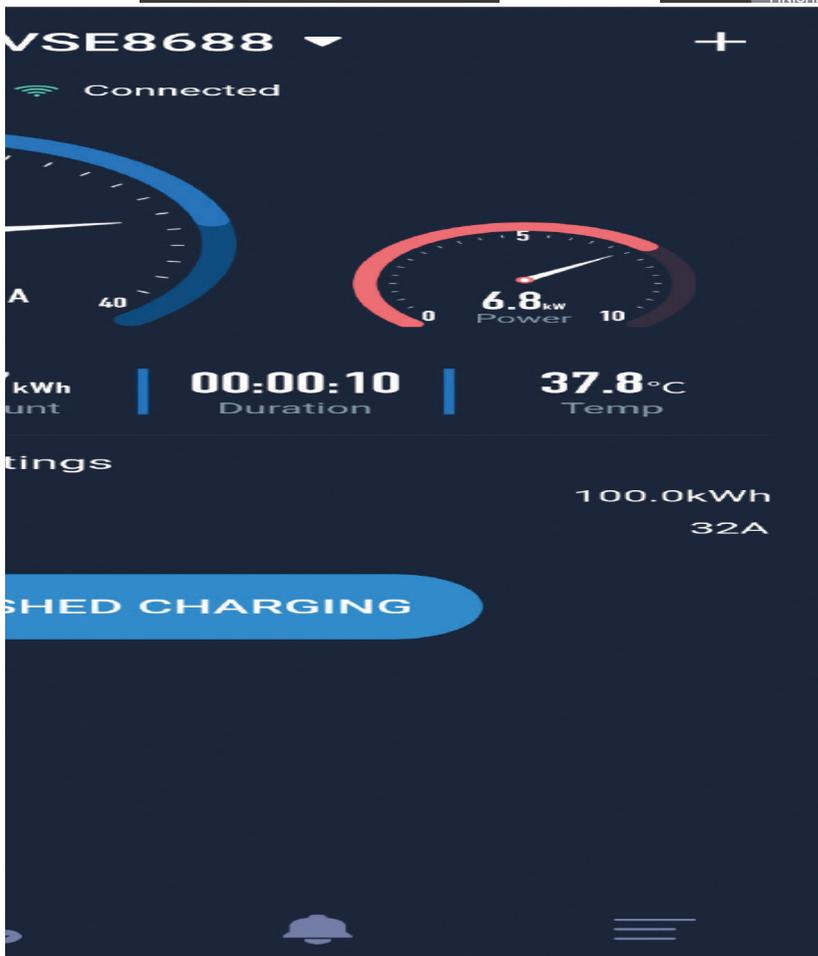
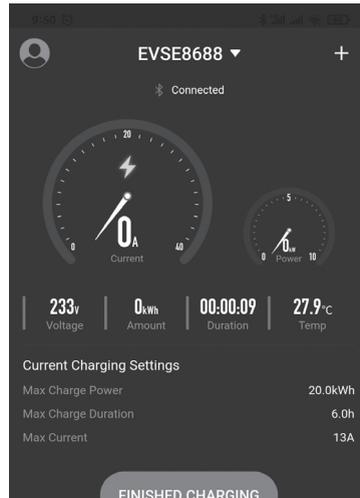
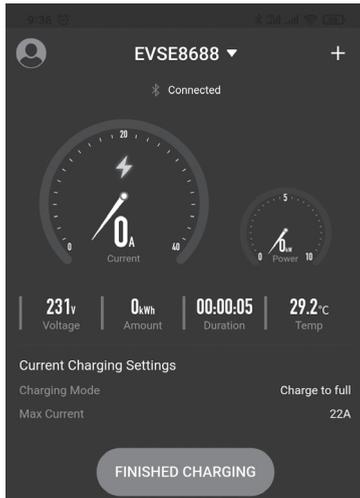
4.9 "Charging homepage" page

The charging homepage is as follows:



Figure 15 - Charging homepage introduction

4.10 "Charging" page



Charging page

ly displays information and data during the charging process, charging time, charging station temperature, charging mode, "Charge to full" option, the maximum charging time, the maximum charging

APP to stop. reached. out.

ops. The prompt will be usually click the "Charging homepage. When you un. If you don't pull out the gun, there will be a 10-second wait. After 10 seconds, you can start another charging, and you can also click the icon and text of pulling out the gun in the above picture to start another charging.

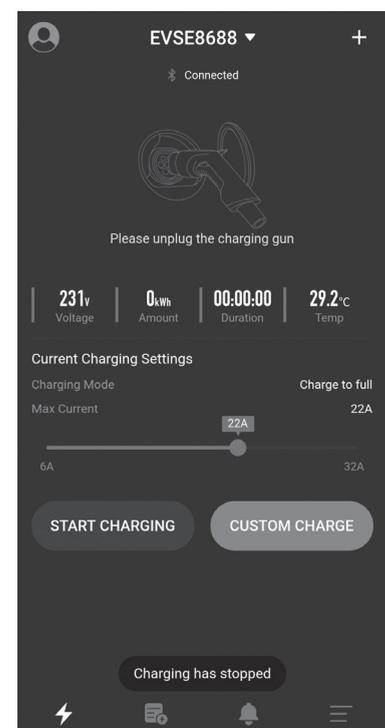


Figure 17 - Charging stop page



CHARGE BOX APP USER MANUAL • EV CAR CHARGER

4.12 “Custom charging-Single charging” page

There are three parameters that can be set for a custom single charging.

1. Extend the duration: Extend certain duration to start charging from now on. If 0 is set, it means to start immediately, while other data is set, it means to have scheduled charging, and the maximum is 24 hours.
2. Charging time: The maximum charging time, after which the charging station will automatically stop charging. Setting to 0 means that the charging time is not limited, and the maximum value is 48 hours. The charging duration parameter and the charging power parameter can be set at the same time, and one parameter must be selected at least.
3. Charging power: The maximum charging power, beyond which the charging station will automatically stop charging. Setting it to 0 means that the charging power is not limited, and the maximum value is 100 degrees. The charging duration parameter and the charging power parameter can be set at the same time, and one parameter must be selected at least.

4.12.1 “Custom charging-Single charging-Quantitative charging” page

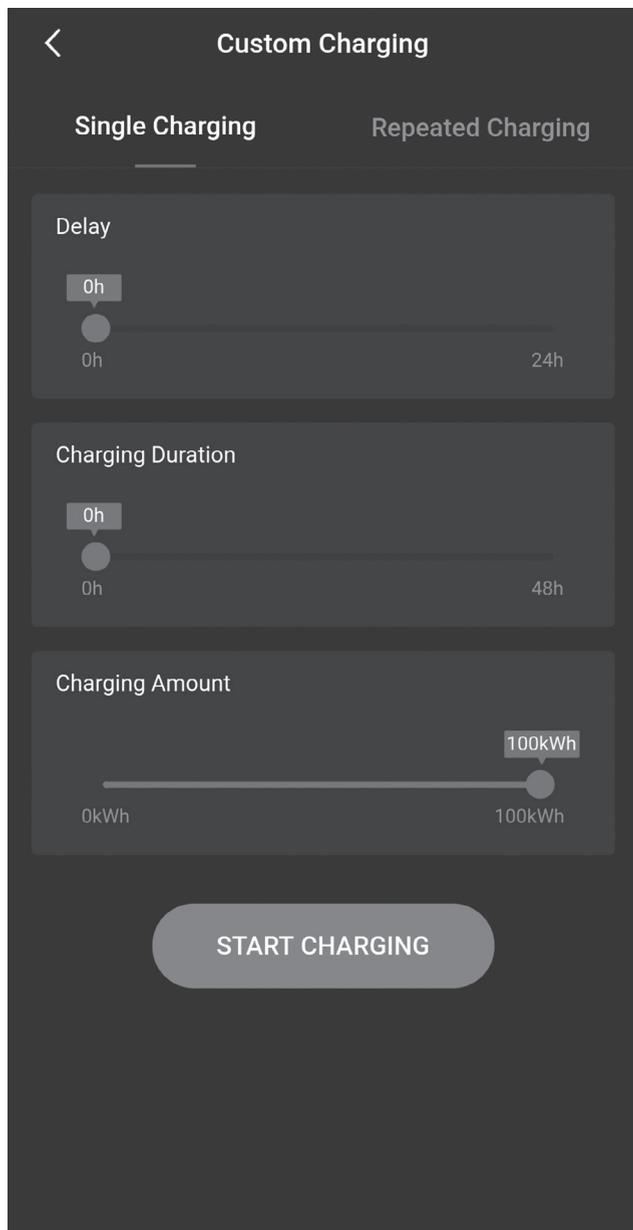


Figure 18 - Setting the quantitative charging page

4.12.2 “Custom charging-Single charging-Timed charging” page

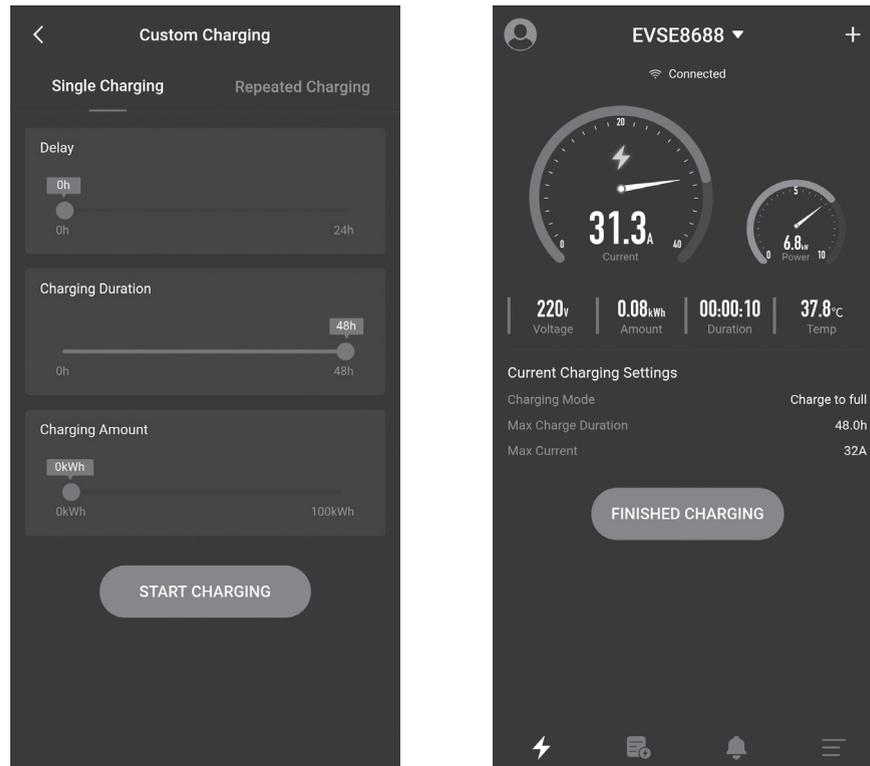


Figure 19 - Setting timed charging page

4.12.3 “Custom charging-Single charging-Timed and quantitative charging” page

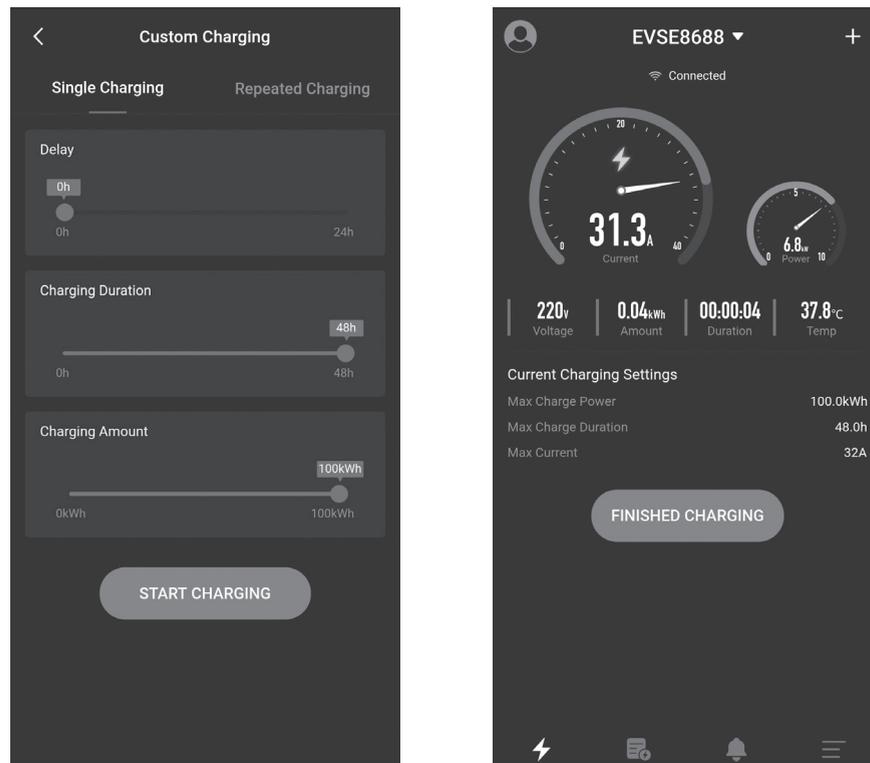


Figure 20 - Setting timed and quantitative charging page



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4.12.14 “Custom charging-Single charging-Scheduled charging” page

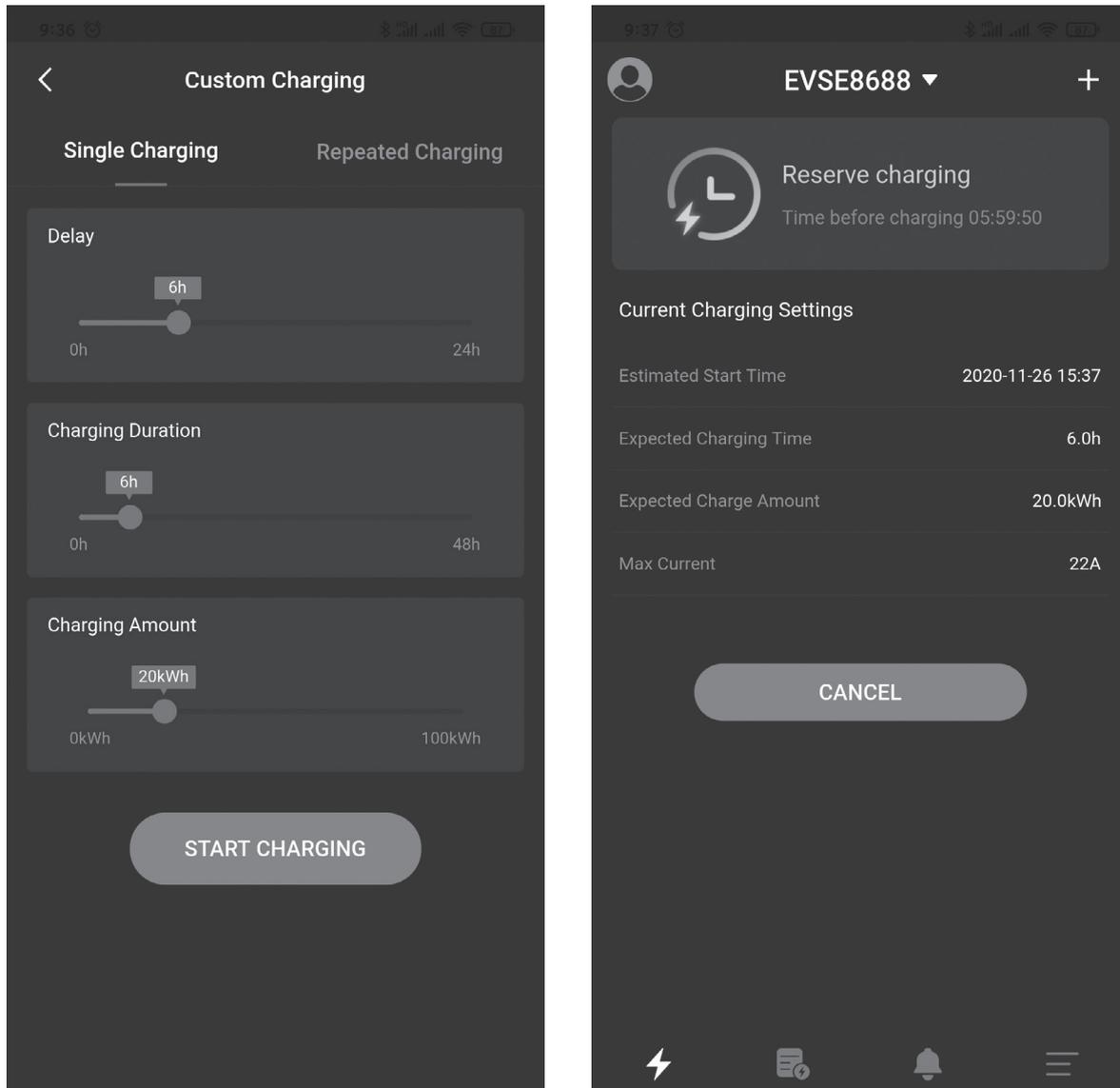


Figure 21 - Scheduled charging page

4.13 “Custom charging-Periodic charging” page

There are four parameters that can be set for charging with custom charging cycle.

1. Cycle start time: Set the time at which to start charging.
2. Cycle repetition time: Set the days of the surrounding cycle to repeat, and you can select part or all of it.
3. Charging time: The maximum charging time, after which the charging station will automatically stop charging. Setting to 0 means that the charging time is not limited, and the maximum value is 48 hours. The charging duration parameter and the charging power parameter can be set at the same time, and at least one parameter must be selected.
4. Charging power: The maximum charging power, beyond which the charging station will automatically stop charging. Setting it to 0 means that the charging power is not limited, and the maximum value is 100 degrees. The charging duration parameter and the charging power parameter can be set at the same time, and one parameter must be selected at least. As shown on the next side:



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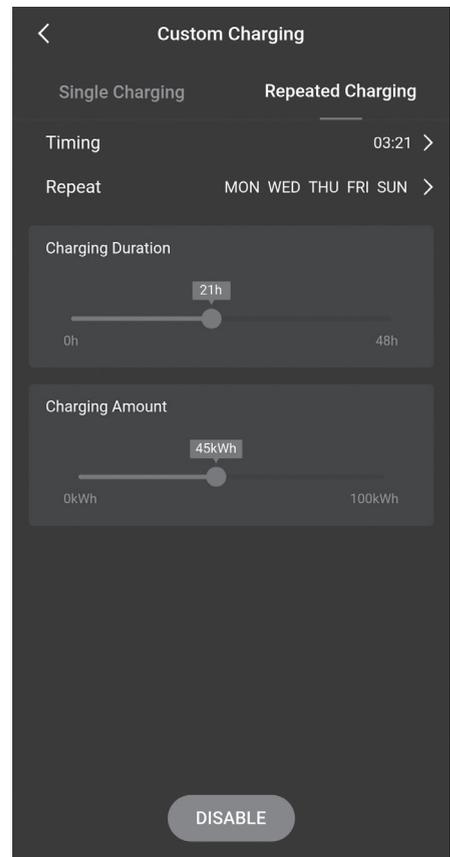
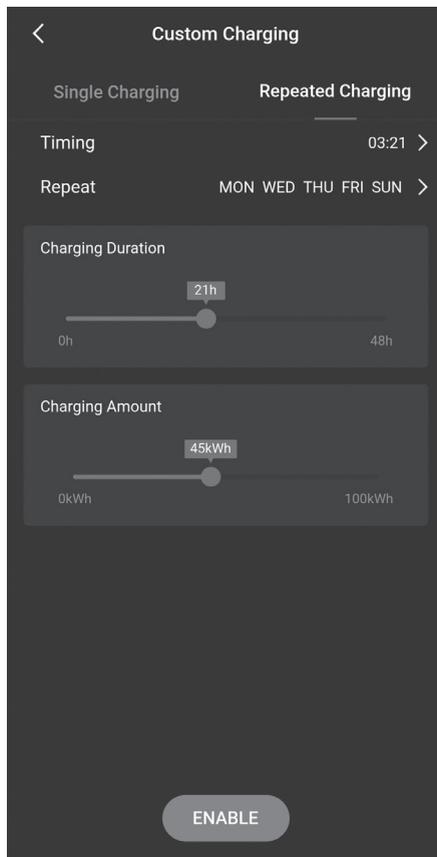
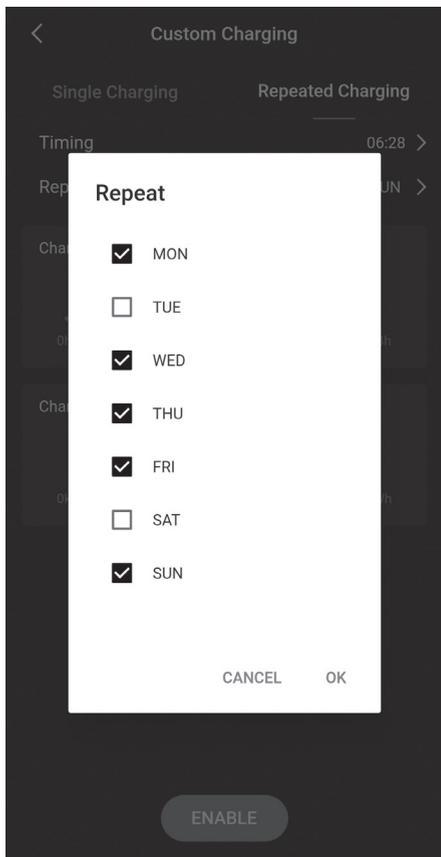
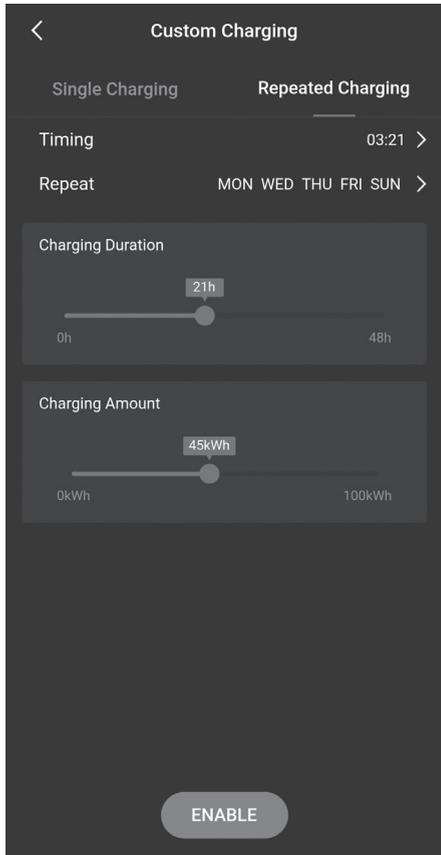


Figure 22 - Setting scheduled time page



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Periodic charging in custom charging refers to setting the cyclic charging parameters. When it is time to charge, the charging station does not have other charging and the charging gun is plugged in, and the charging station will automatically start charging, which is like a mobile phone alarm clock. When the time is up, it will be charged automatically, and it can be used always for one setting. The cycle charging in the custom charging is as shown in the figure above. Below steps are mainly required, and one step corresponds to one picture to proceed in sequence.

1. Select the charging time and the charging power.
2. Select the timed hour.
3. Select the timed minute.
4. Select the repetition cycle.
5. Select the button enabled to set. If the setting is successful, there will be a success prompt.
6. Select the “Prohibit” button to cancel the periodic charging function. If the cancellation is successful, there will be a success prompt.

4.14 “System failure” page

When the charging station is faulty, the homepage will display system fault information which includes: Low Voltage, Over Voltage, Over Current, Short Circuit, Over Temperature, CP Error, etc.



Figure 23 - Main faults page

4.15 “Charging records-My records” page

The charging records page has functions such as display, count, acquire, derive, and delete charging records.

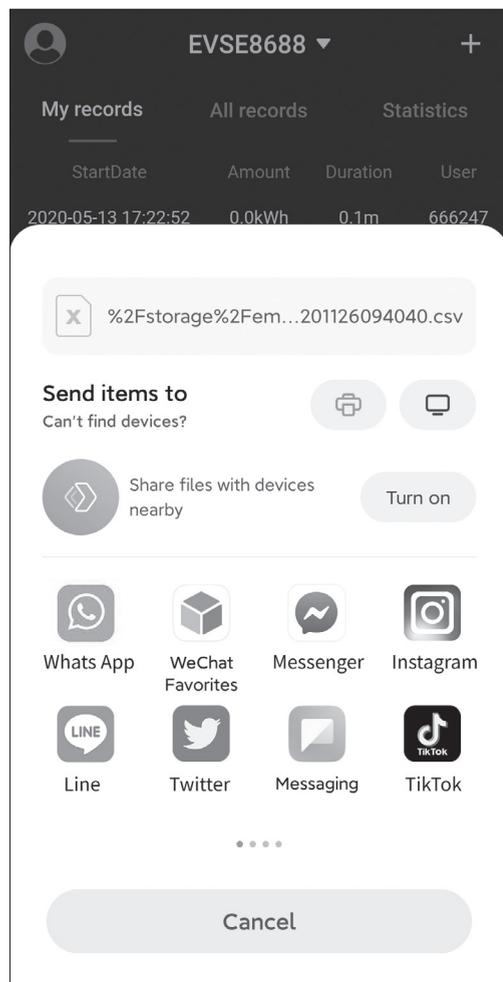


Figure 24 - Derive charging record page

1. My records:

Only the charging records of the user of this APP are counted. The charging records are ranked in time sequence with the latest time ranked at the top, which can be deleted or retrieved from the charging station.

2. All records:

All the charging records in the charging station are counted. The charging records are ranked in time sequence with the latest time ranked at the top, which can be deleted or retrieved from the charging station.

3. Charging statistics:

The charging time and the charging power can be counted monthly and daily, and displayed in a bar graph. For daily statistics, the system automatically advances one week's time statistics based on the current time; for monthly statistics, the system automatically advances 6 months' time statistics based on the current time; users can also select the start date by themselves.

4. The record with a delete button:

The record stored in the mobile APP will be deleted, while the record of the charging station will not be deleted.

5. Record synchronize button:

When the mobile phone needs to synchronize the recording of the charging station, you can press this button to synchronize, which will take a certain amount of time.

6. Record derive button:

Generating records into a file and deriving it to other software through sharing.



CHARGE BOX APP USER MANUAL • EV CAR CHARGER

4.15.1 “Charging records-My records” page

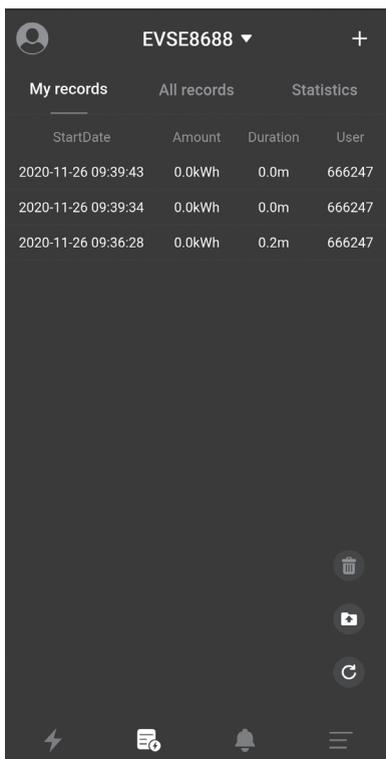


Figure 25 - My records page

4.15.2 “Charging records-All records” page

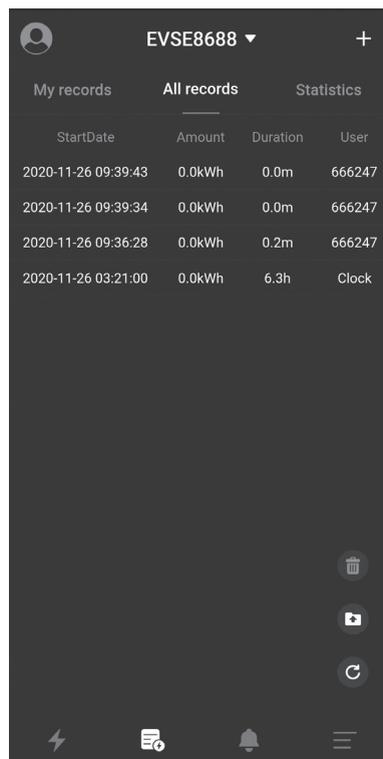


Figure 26 - All records page

4.15.3 “Charge records-Charging statistics-Day statistics” page

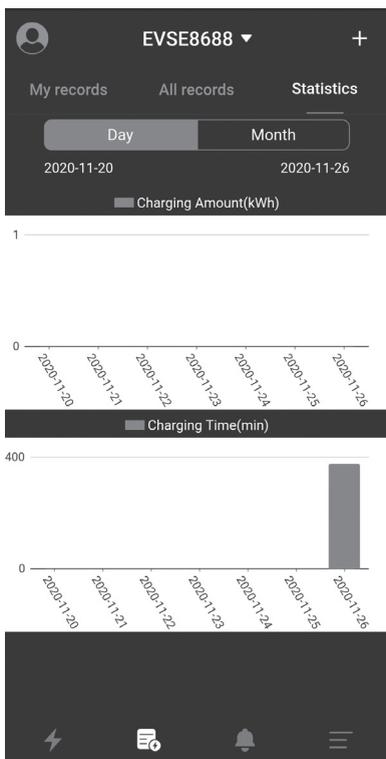


Figure 27 - Day statistics page

4.15.4 “Charging records-Charging statistics-Month statistics” page

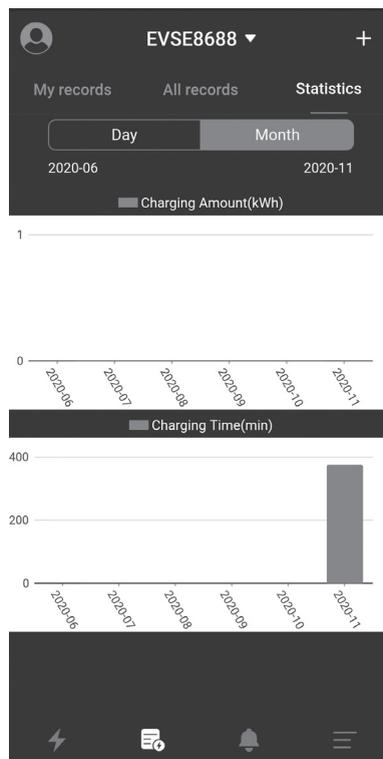
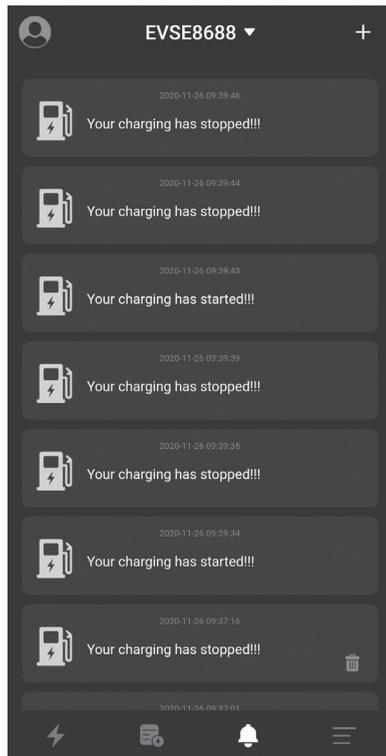


Figure 28 - Month statistics page

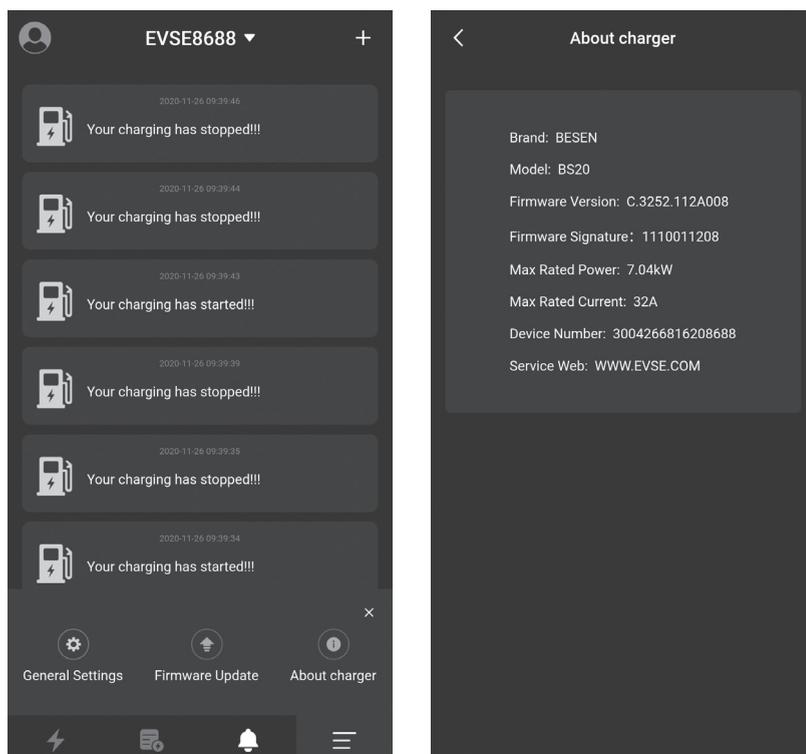
4.16 “Information prompt” page



The information prompt page is to record the relevant information of the charging start, which can be viewed and deleted. The delete button is shown as the figure .

Figure 29 - Information prompt page

4.17 “System settings-About charger” page



The characteristic information of the station displayed on the About charger page includes brand, model, firmware version, firmware feature word, maximum rated power, maximum rated current, and charging station number, etc.

Figure 30 - About charger page



4.18 “System settings-Firmware upgrade” Page

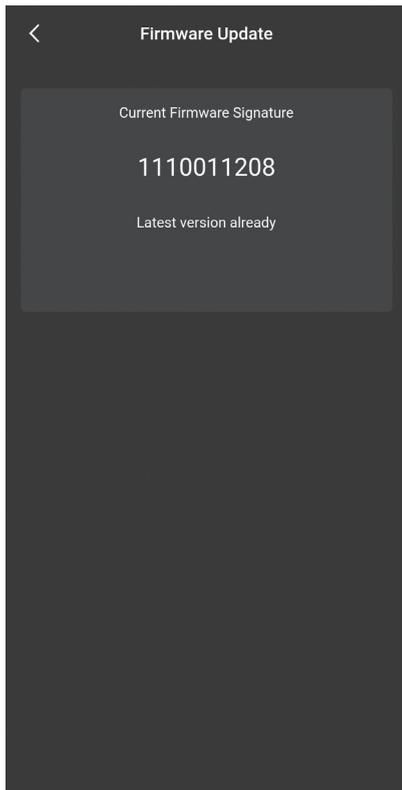


Figure 31 - Firmware version is the latest version page

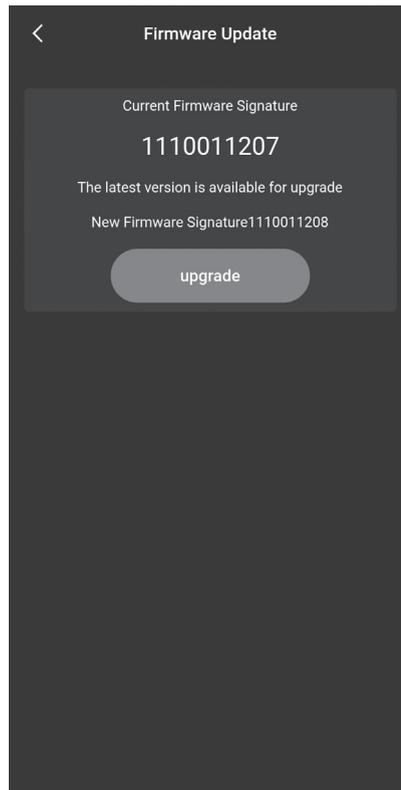


Figure 32 - The firmware version can be upgraded page

The firmware upgrade page displays the current firmware version and the latest firmware version of the charging station. If the current firmware is not the latest version, the user will be prompted to upgrade.

When upgrading, you should make sure that the phone is on the upgrade page, the battery of the phone is not less than 50%, the charging station cannot be powered off, and the distance between the phone and the charging station is no more than 10 meters.

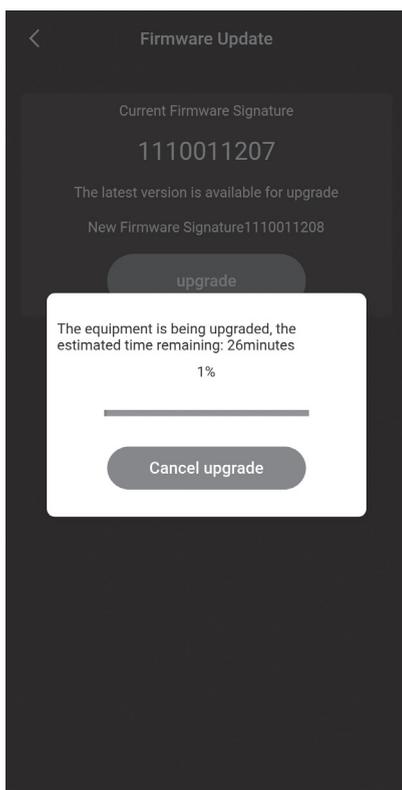


Figure 33 - Firmware upgrade under Bluetooth channel page

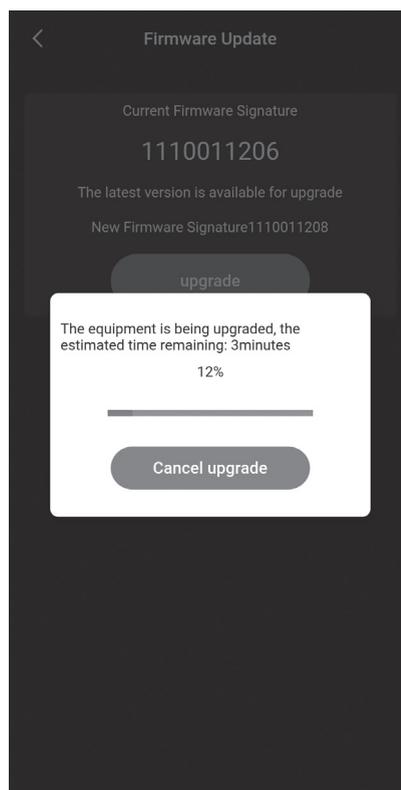


Figure 34 - Firmware upgrade under Wi-Fi channel page

There are two channels to upgrade data: Wi-Fi and Bluetooth. It takes about 5 minutes to upgrade under the Wi-Fi channel, while approximately 30 minutes under the Bluetooth channel. It is recommended to use the Wi-Fi channel to upgrade.

4.19 “System settings-General settings” Page

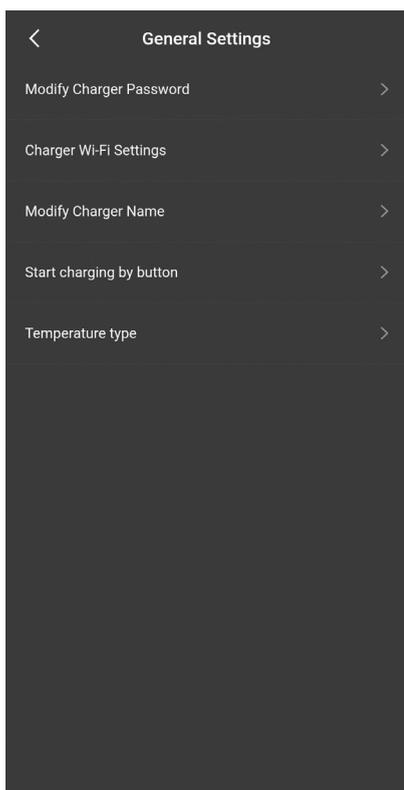


Figure 35 - General settings page

The general settings include modify charger password, WIFI setting for charging station, station name, button to start charging, and temperature type. Related parameters can be changed and set in each sub-item.

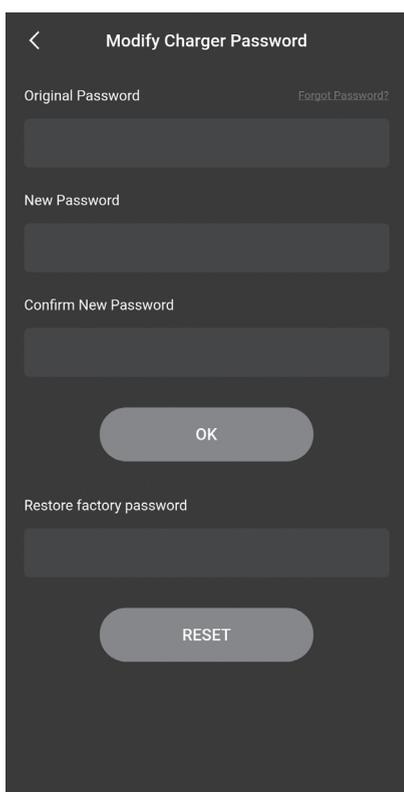


Figure 36 - Modify charger password page

4.19.1 “System settings-General settings-Modify charger password” page

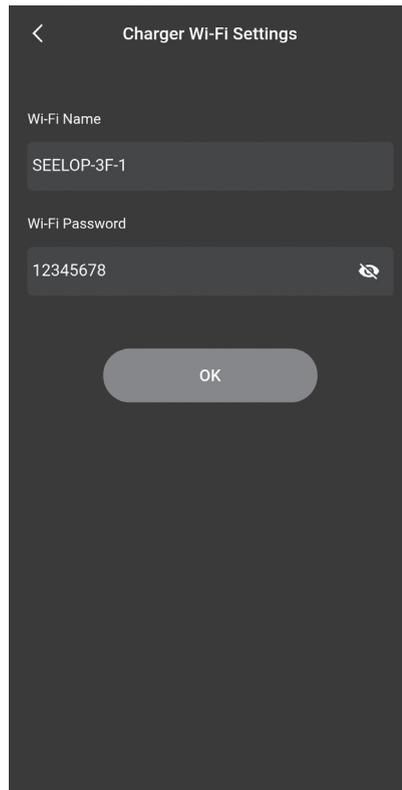
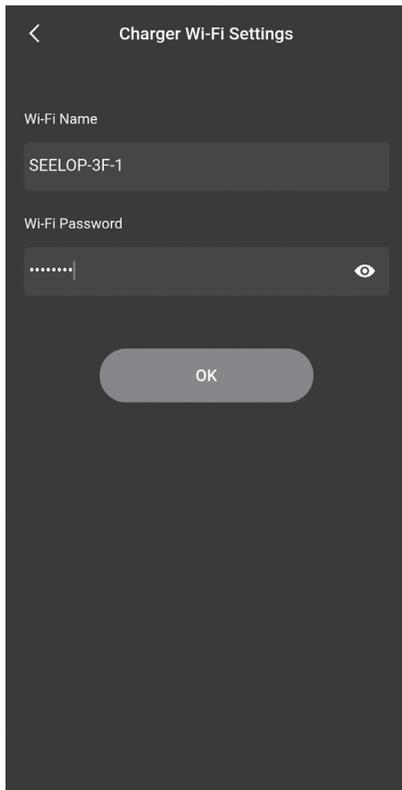
The charging station communicates with the mobile phone APP by matching the charger password which consists of 6 digits, and the initial one is “123456”. When the user uses the charging station and the APP for the first time, the password needs to be changed, otherwise, this charging station may be operated by other APP installers. When change the password, you need to fill in the original old password and the new password twice, and there will be prompt if the setting is correct or incorrect.

If you forget the communication password after modification, you need to contact the supplier to solve the problem. The supplier will verify the validity of the user, and issue the password according to the charging station number with 16 digits in the “About charger” provided by the customer, after the password is entered, the charger password will be restored to the initial “123456”.



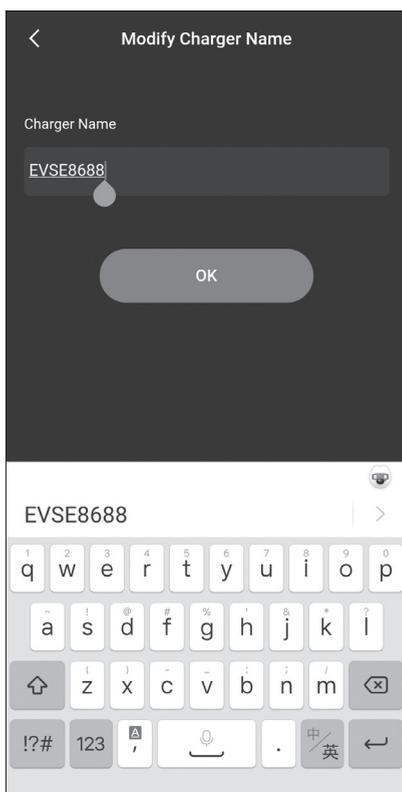
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4.19.2 “System settings-General settings-Charger Wi-Fi settings” page



WIFI module of the charging station does not work when it is used for the first time, which needs to be connected to the WIFI router, with the WiFi name and WiFi password included as the setting parameters. First of all, you should make sure that your phone is connected to the WiFi router, and the user only needs to enter the password and click OK to complete the setting. Note that the maximum password length is 16 digits.

Figure 37 - Charger Wi-Fi settings page



4.19.3 “System settings-General settings-Charger name” page

The charger name page displays the station name, and the default is “EVSEXXXX”, whose rule is: EVSE plus the last 4 digits of the charging station number. The user can set the byte station name, which will be synchronized to the charger’s LCD display page. Note that the station name supports maximum 11 characters, including spaces and others. After the modification is successful, the APP needs to be restarted to search for the changed name.

Figure 38 - Charger name page

4.19.4 “System settings-General settings-Start charging by button” page

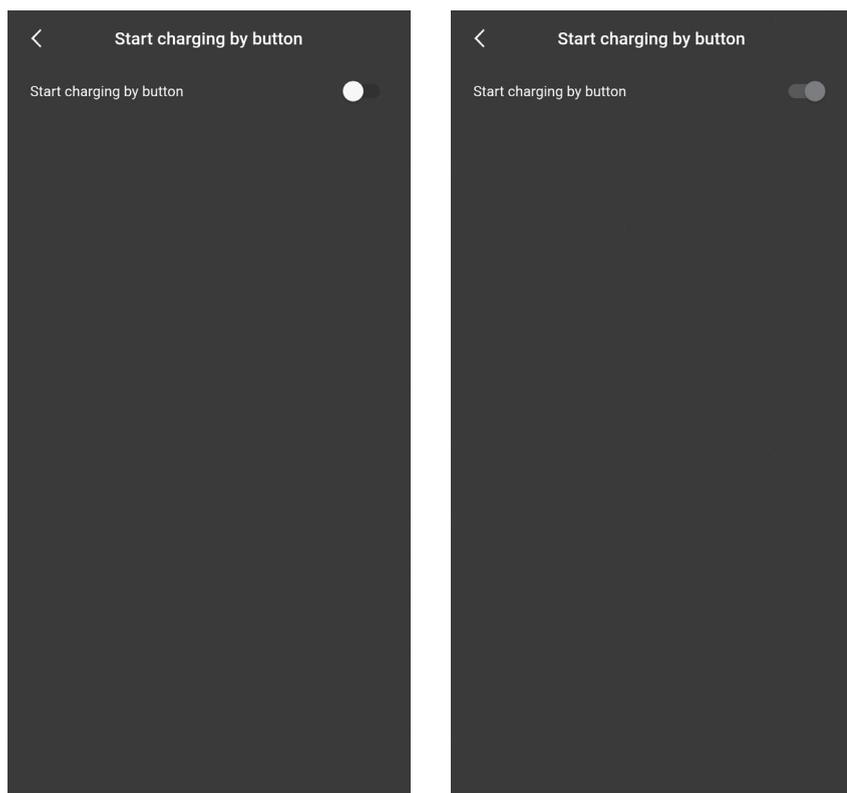


Figure 39 - Start charging by button page

The charging station can support three startup methods:

1. Start by APP.
2. Cycle start, with which you can check whether the cycle start setting is effective.
3. Start by button. You can set on this page. You can start and stop charging by button after the setting takes effect.

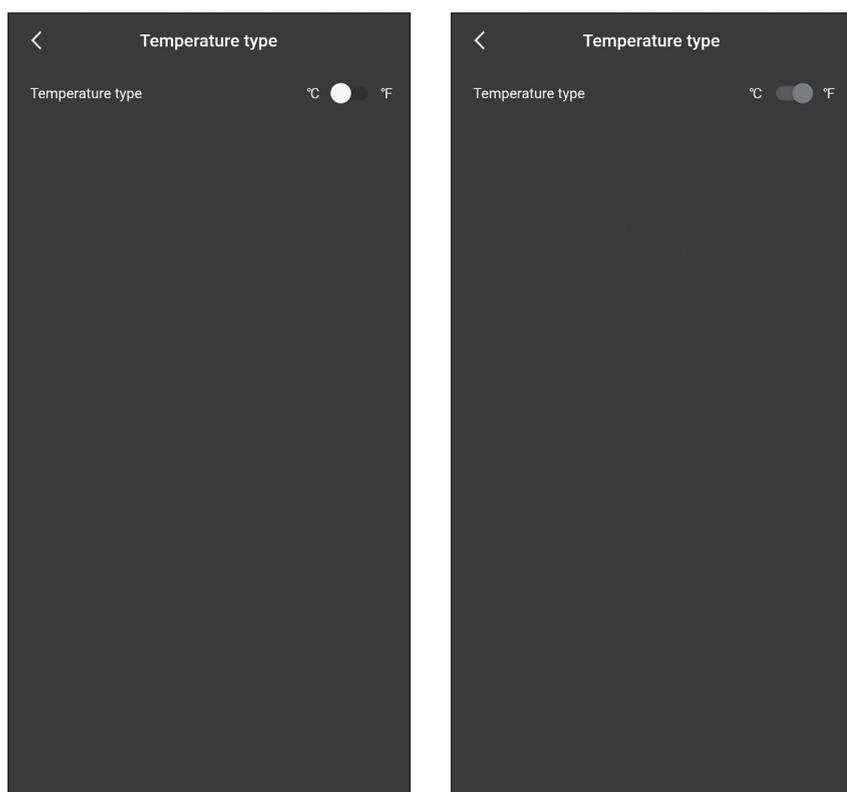


Figure 40 - Temperature type selection page

4.19.5 “System settings-General settings-Temperature type” page

This setting option can set the temperature type on the charging station, respectively in Celsius and Fahrenheit. When the setting is completed, the temperature type of the charging station and that of the mobile phone APP will change accordingly.



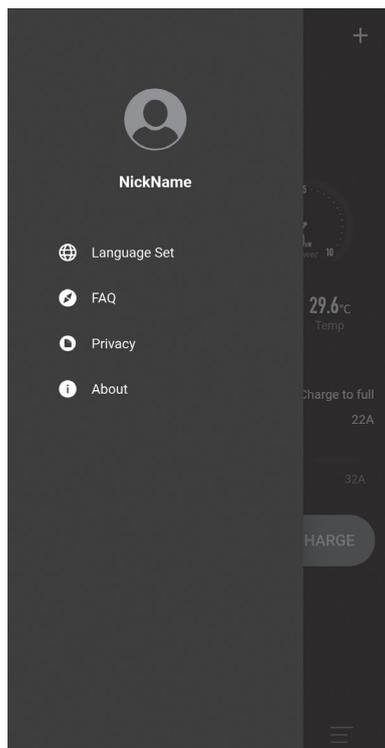
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You can click to switch the temperature type on the homepage where the temperature is displayed to quickly switch the temperature type in the mobile phone APP, while the type on the charging station will not change accordingly. The location of the temperature is shown in the figure below:

Figure 41 - Quickly switch the temperature type page on the homepage of the mobile APP

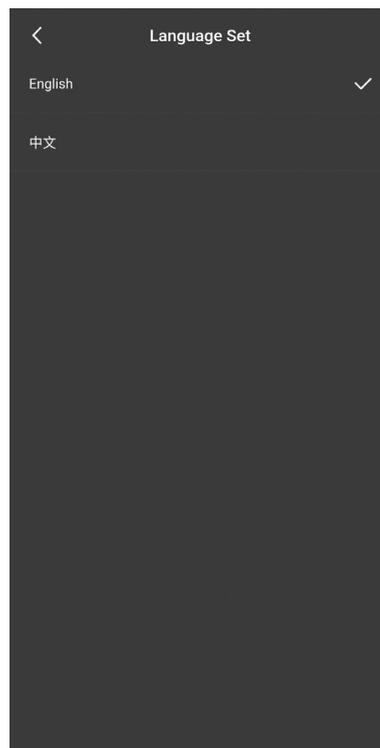
4.20 “User settings” Page



The user settings page contains Nickname, Language Set, FAQ and About.

Figure 42 - User settings page

4.20.1 “User settings-Change nickname” Page



You can click to switch the temperature type on the homepage where the temperature is displayed to quickly switch the temperature type in the mobile phone APP, while the type on the charging station will not change accordingly. The location of the temperature is shown in the figure below:

Figure 43 - Language Set page

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4.20.2 “User settings-Nickname” page

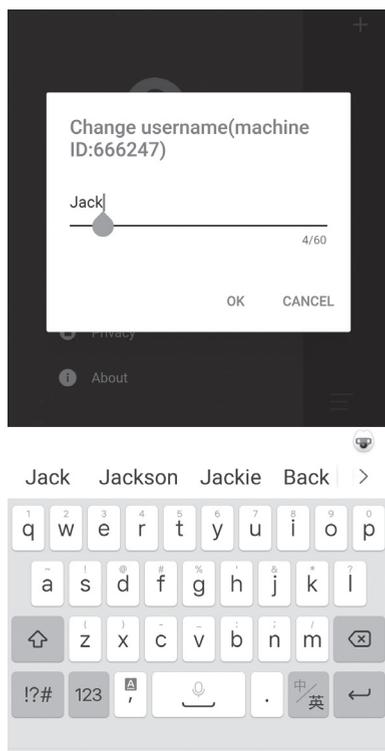


Figure 44 - Change username page

Users can change their nickname. This page displays the machine code, which is fixed for each mobile phone listed in the charging record. The charging record is to determine which phone is performing charging through the machine code.

4.20.3 “User settings-FAQ” page

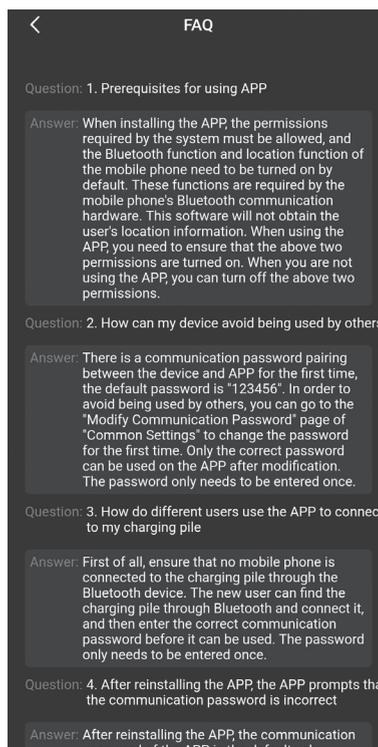


Figure 45 - FAQ page

This page lists common system problems and solutions.

4.20.4 “User settings-Privacy policy” page

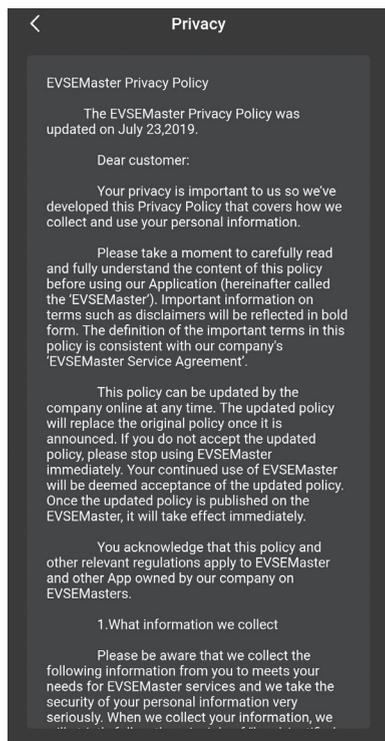


Figure 46 - Privacy policy page

This page lists the content of the privacy agreement.

4.20.5 “User settings-About” page

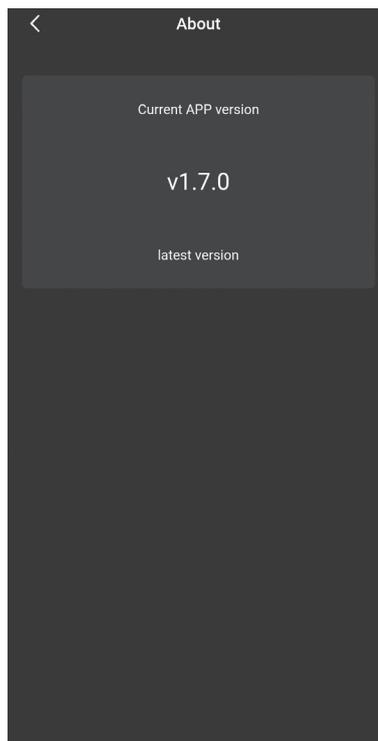


Figure 47 - About page

Some system prompts are displayed.

