

# Wall Box — APP Function Manual



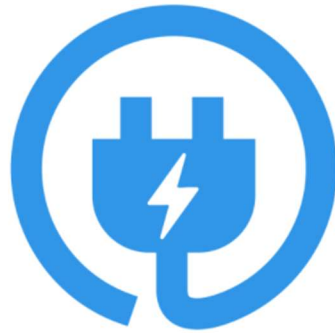
V1.0

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# 1 Download and install

Android phone users can search and install “DS charge” through Google play.  
Iphone users can search and install “DS charge” through the APP store.



**DS Charge**



IOS APP



Android APP

Note: All APP functions require charging station to be connected to the router and connected to the Internet.

## 2 Register

When the user first visits, the user registration is performed by the following steps.

The image shows two side-by-side user interface screens for a login and registration process. A vertical line separates the two screens.

**Left Screen (Login):**

- Logo: A blue circular icon containing a white plug and a lightning bolt.
- Input field 1: "Enter email address" with an envelope icon.
- Input field 2: "Enter password" with a lock icon.
- Link: "Forgot password?"
- Button: "Login" (blue)
- Text: "No account yet? Go [Register](#)" (the "Register" link is highlighted with a red box).

**Right Screen (Register):**

- Section Header: "Register"
- Input field 1: "Enter email address" with an envelope icon.
- Input field 2: "Enter password" with a lock icon.
- Input field 3: "Enter password again" with a lock icon.
- Button: "Register" (blue)
- Text: "Have account? Go [Login](#)"

Users will then receive an email to activate their account.

# 3 Login APP

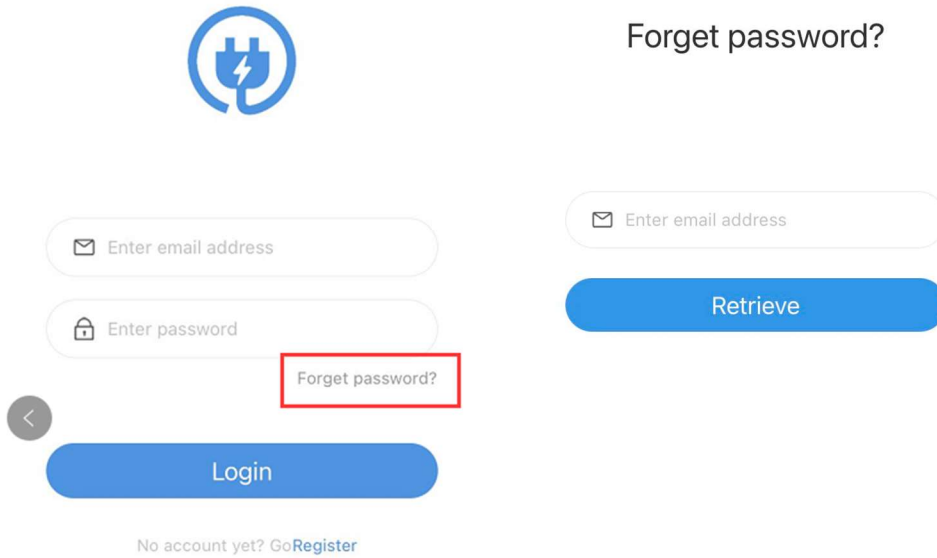


[Forget password?](#)

No account yet? [GoRegister](#)

Please use your account and password to log in.

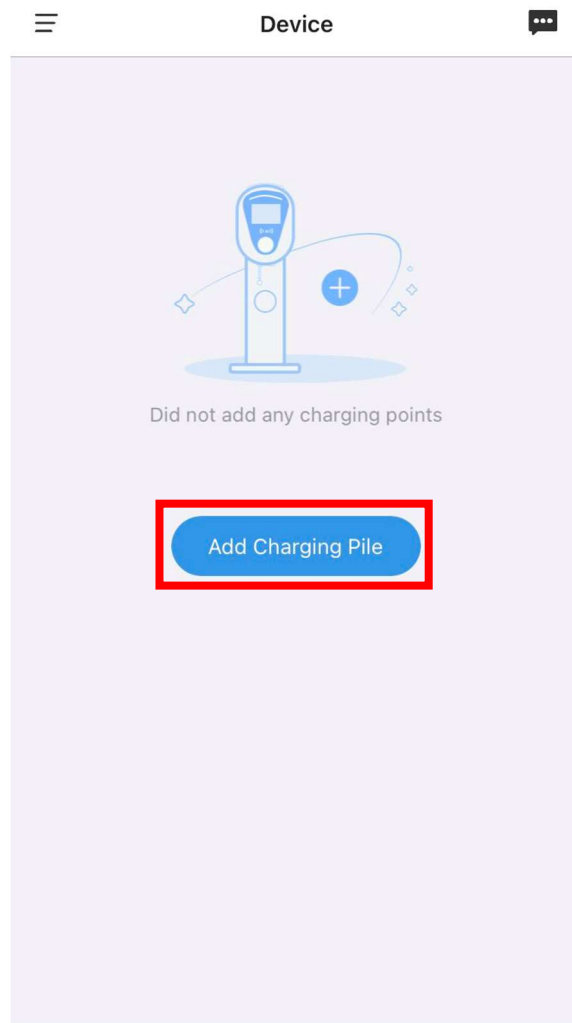
## 4 Forget password



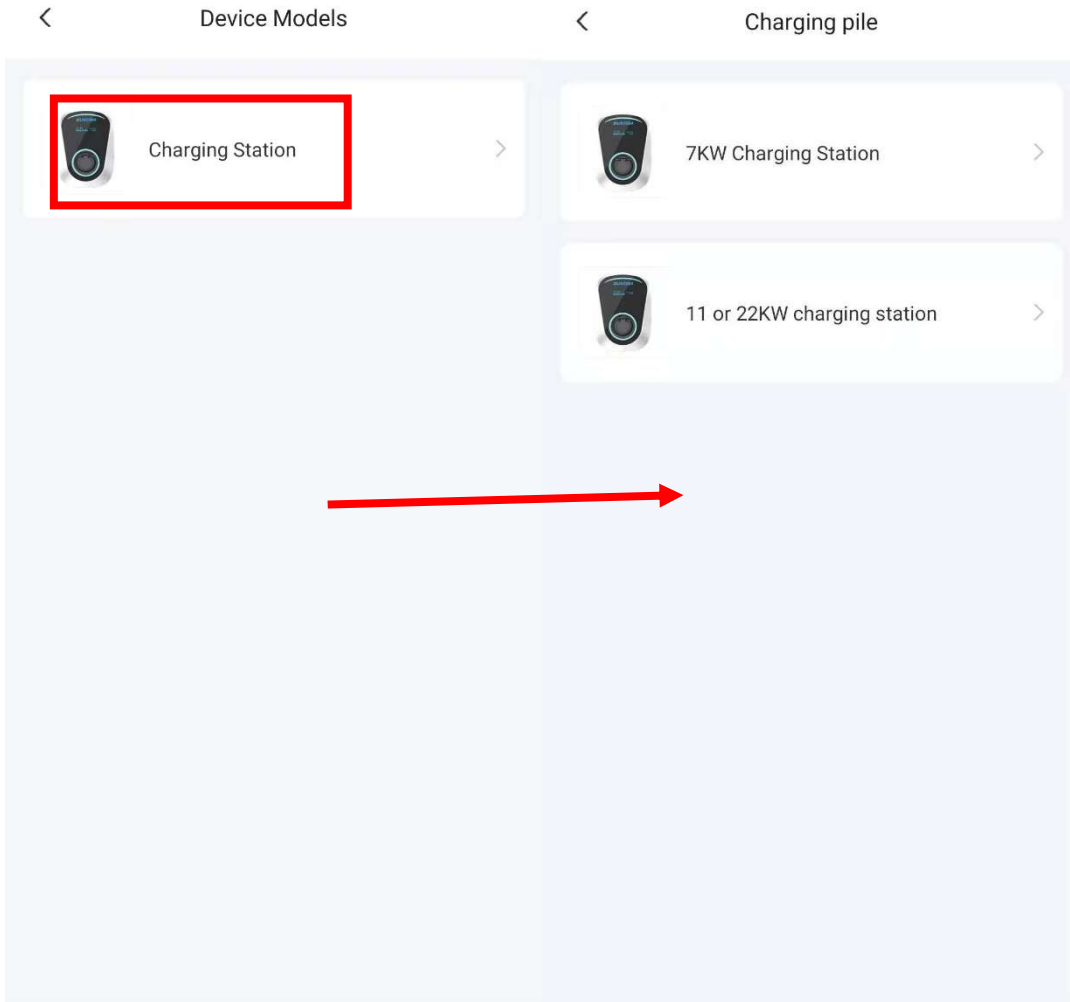
The image shows two parts of a user interface. On the left is a login form with a blue circular logo containing a plug and a lightning bolt. Below the logo are two input fields: 'Enter email address' and 'Enter password'. A 'Login' button is at the bottom. A 'Forget password?' link is highlighted with a red box. Below the login form is a link: 'No account yet? GoRegister'. On the right is a 'Forget password?' screen with an 'Enter email address' input field and a 'Retrieve' button.

Press “Forget password”, and then you will receive an email to change your password.

## 5 Add charging station



Press "Add charging station" icon



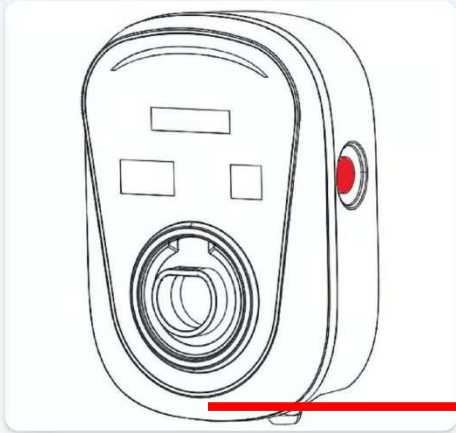
Select charging station, then select “7KW charging station” or “11 or 22KW charging station” to add your charging station.



< Device networking preparation

1/2

Power up your charging station, then wait 5 seconds. Press the emergency button and release it, Repeat 3 times, It will a voice beep in about five seconds later.



NEXT

< Device networking preparation

2/2

Wait for the WIFI indicator to flash slowly.



NEXT

< Link Wi-Fi network

share wifi password to device

分享Wi-Fi密码给设备

ASUS-EVSE-Test >

Enter WiFi password

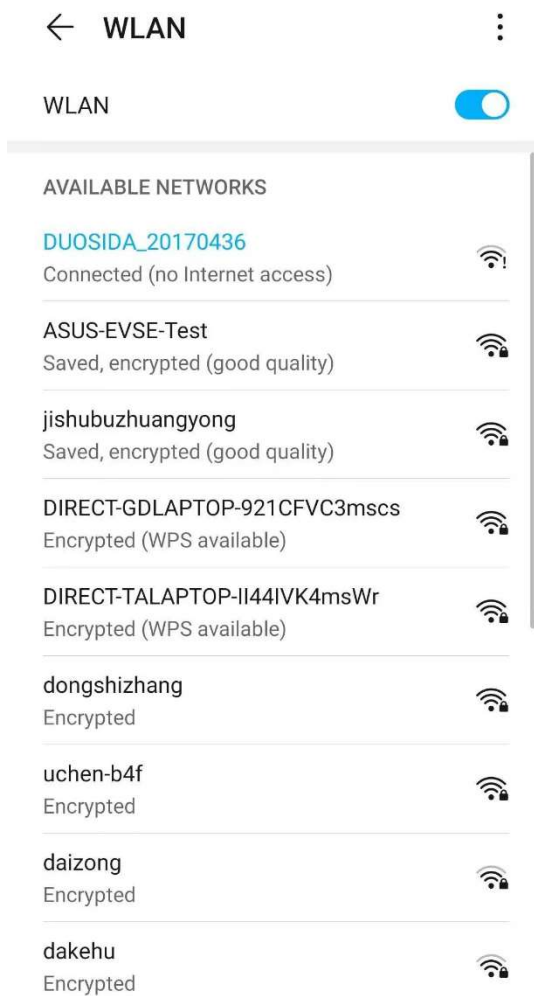
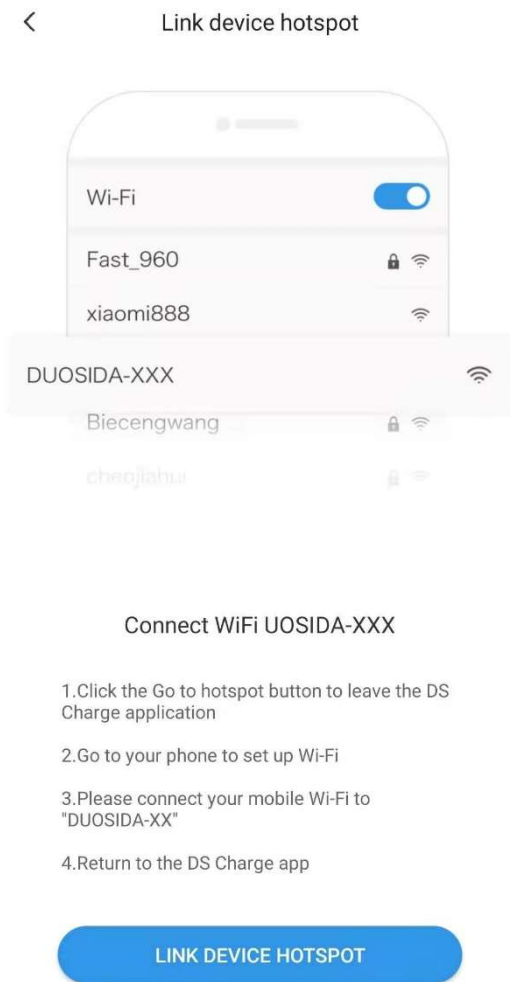
Remember password

OK, CONTINUE

Select the WiFi SSID to which the charging station will connect to the router, and enter the password.



Check router WiFi signal strength.

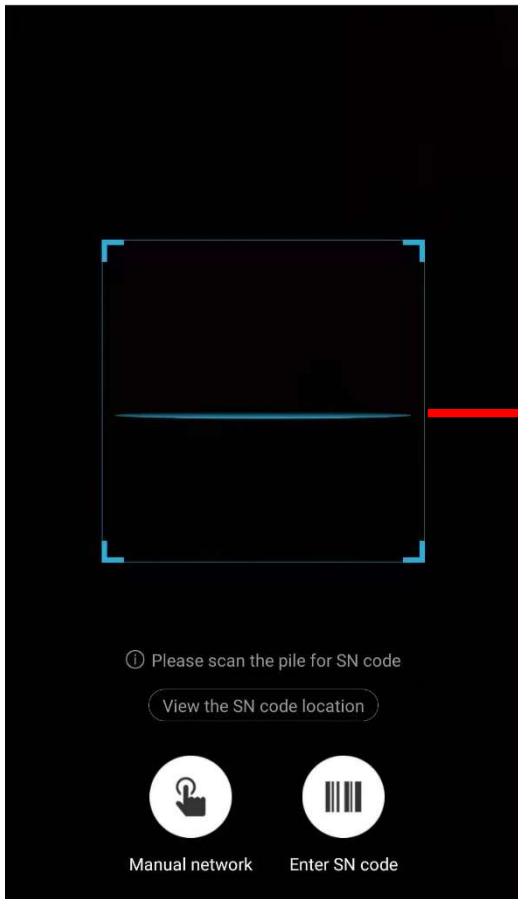


Connect to charging station WiFi.

Password: 'duosida@cp'



Scan code to add



Scan charging station SN code.



ConfigNetworking...



Initializing



Loading finished



try to connect

Distribution network success

Cancel



DS Charge



ConfigNetworking...

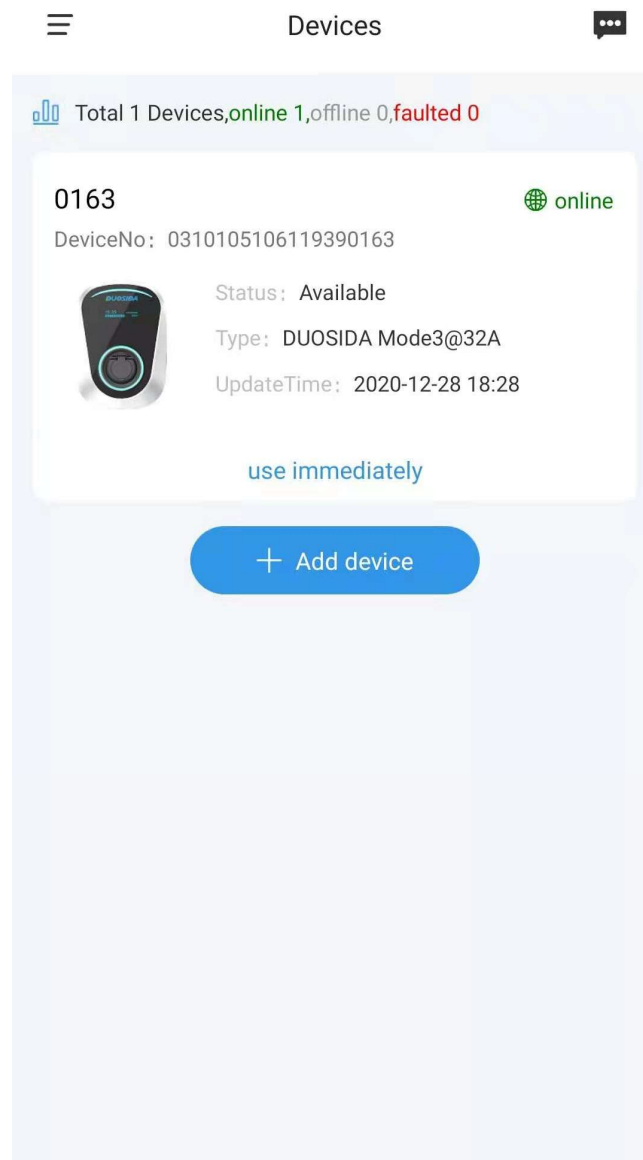


Charging pile name

Start experience

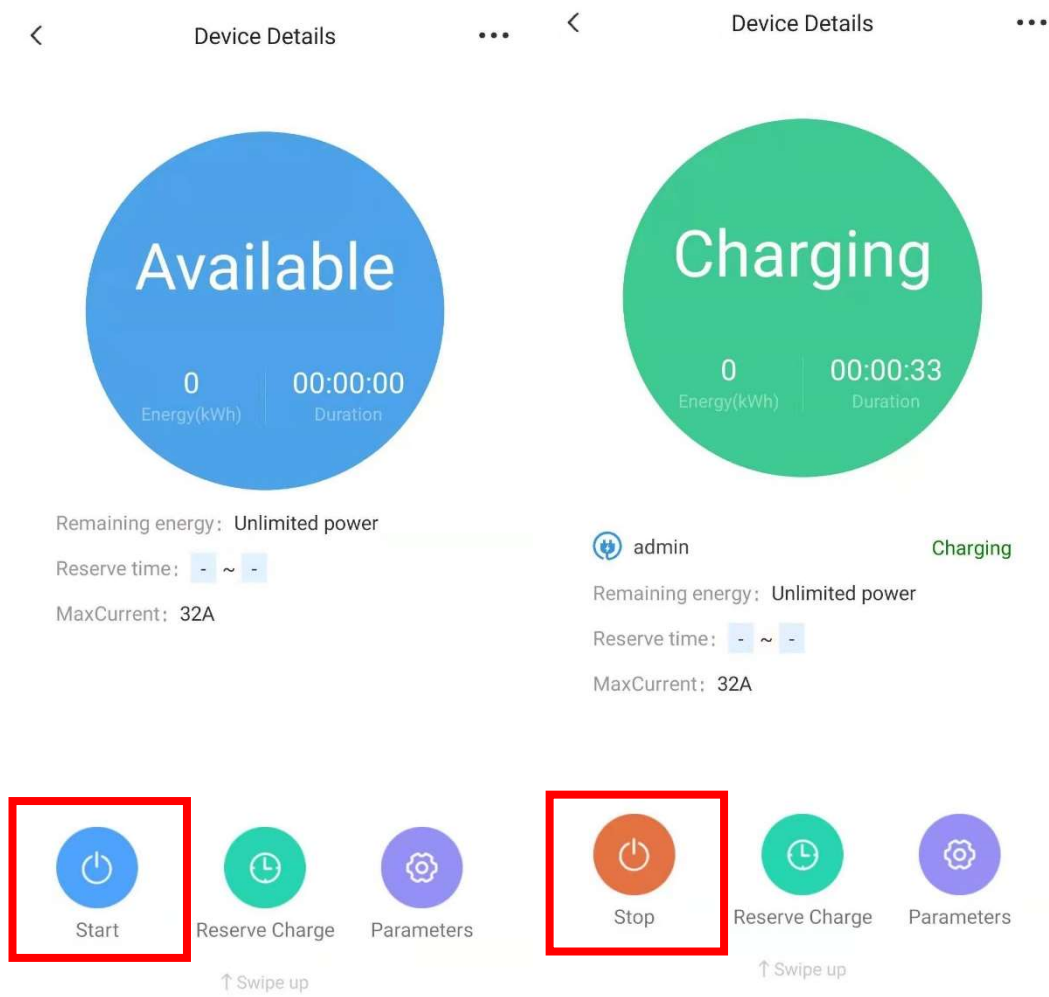
It will take about 2 minutes to configure the network. After success, name the charging station.

## 6 List of charging station



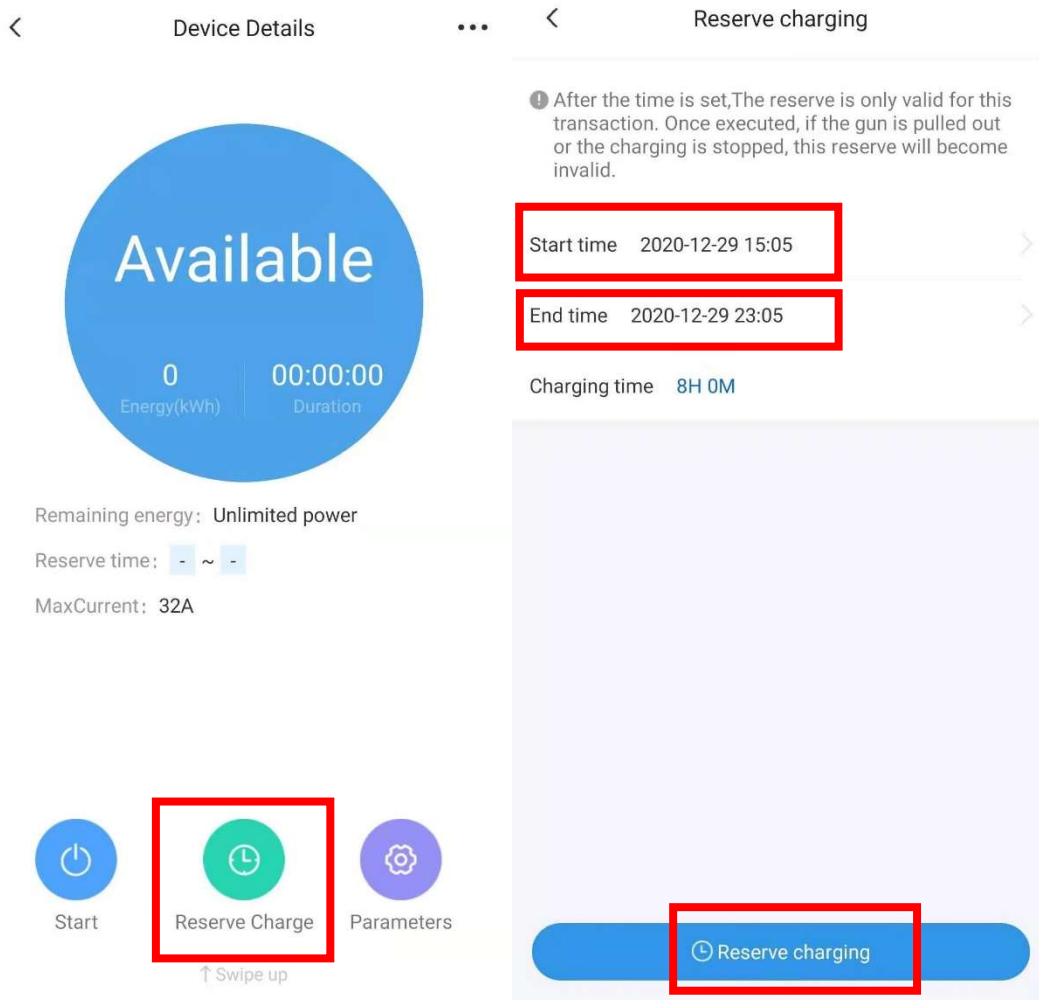
Successful charging station will appear in this area.

# 7 Start and stop charging



You can use the APP to start and stop charging remotely.

# 8 Reserve charge



Press "Reserve Charge" into setting page, then select the start time and end time, Press "Reserve charging" to confirm.

## 9 IC card activated charging



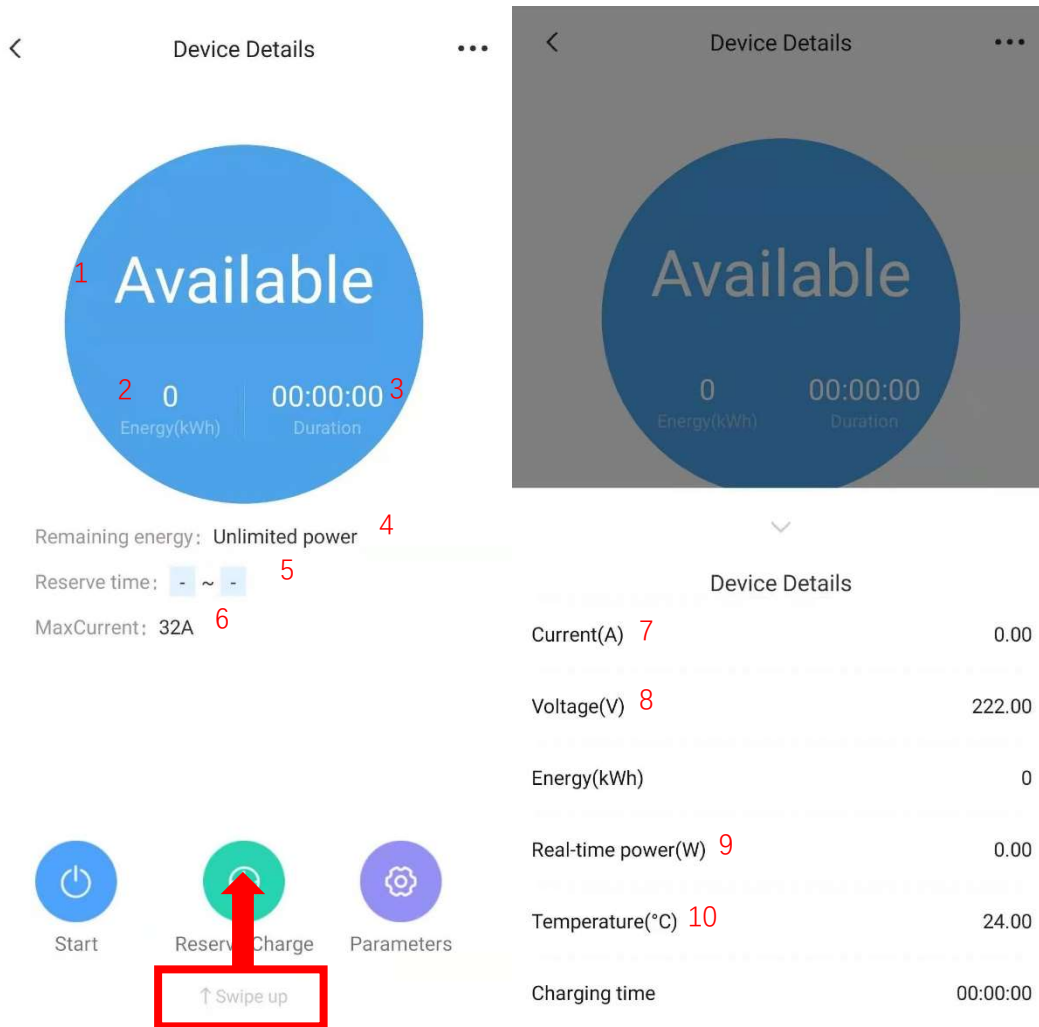
1 Plugging the connector into the vehicle socket.

2 Swing IC card and start charging.

Note: See Chapter 12 for IC card setup. And close “plug then charge mode”.



# 10 Device details



1 State of charging station. 2 Energy of charging.

3 Time spent on the current charging plan.

4 Remaining available power(kWh) of user.

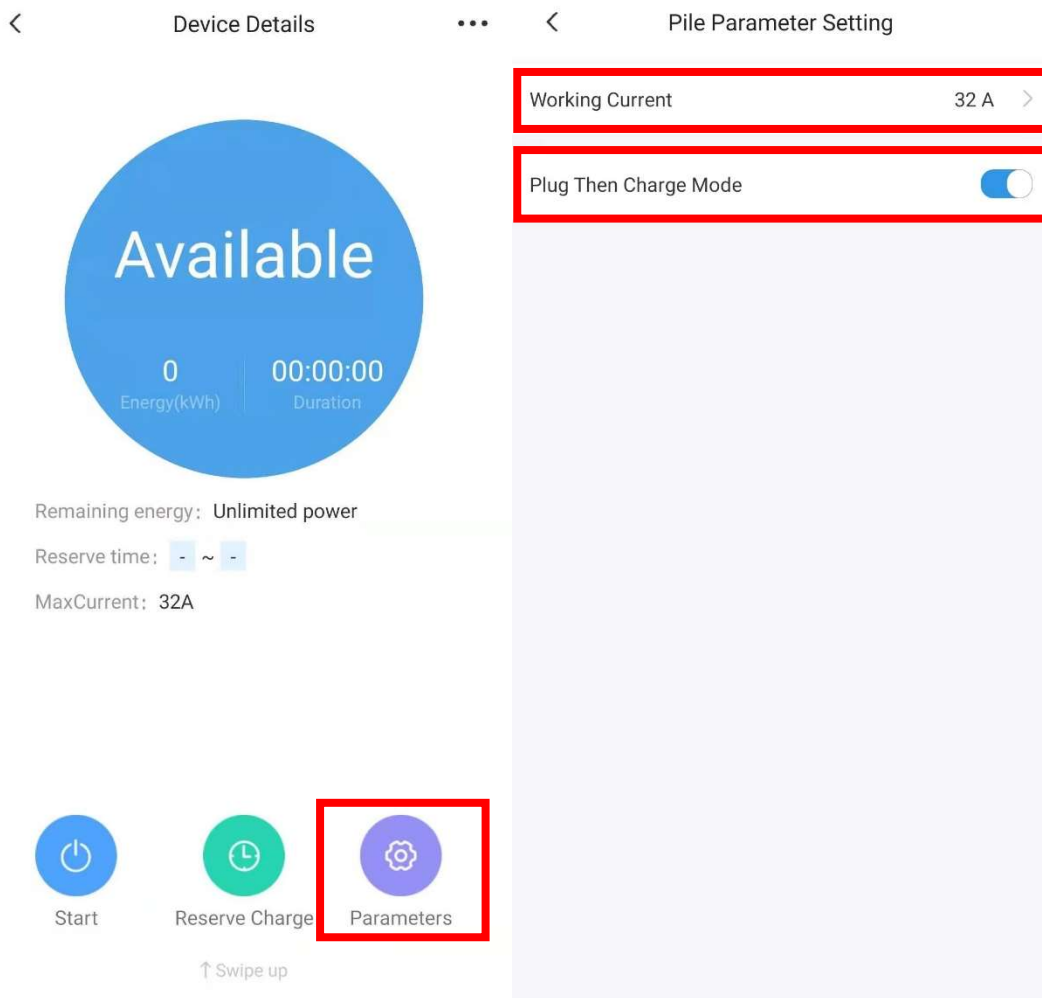
5 Display start and end time of reserve charge.

6 Max charging current. 7 Current of charging.

8 The voltage of charging station.

9 Current charging power. 10 Internal temperature of charging station.

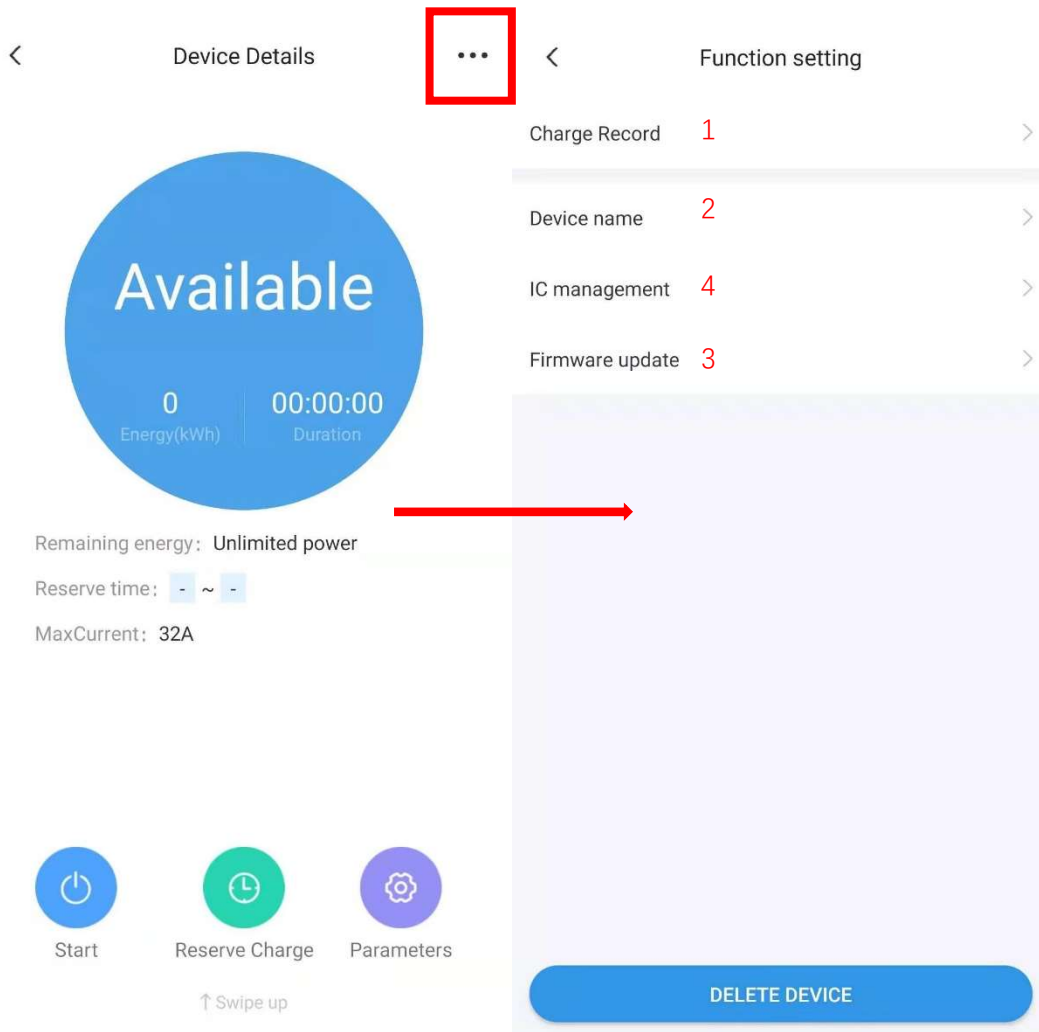
# 11 Parameter setting



Working current: Sets the maximum allowable charge current.

Plug then charge mode: Users can charge directly after plug the charging connector in vehicle.

# 12 Function setting

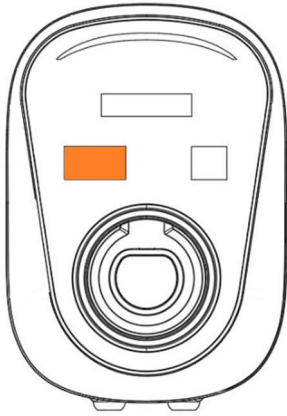


1 User can see the charging history.

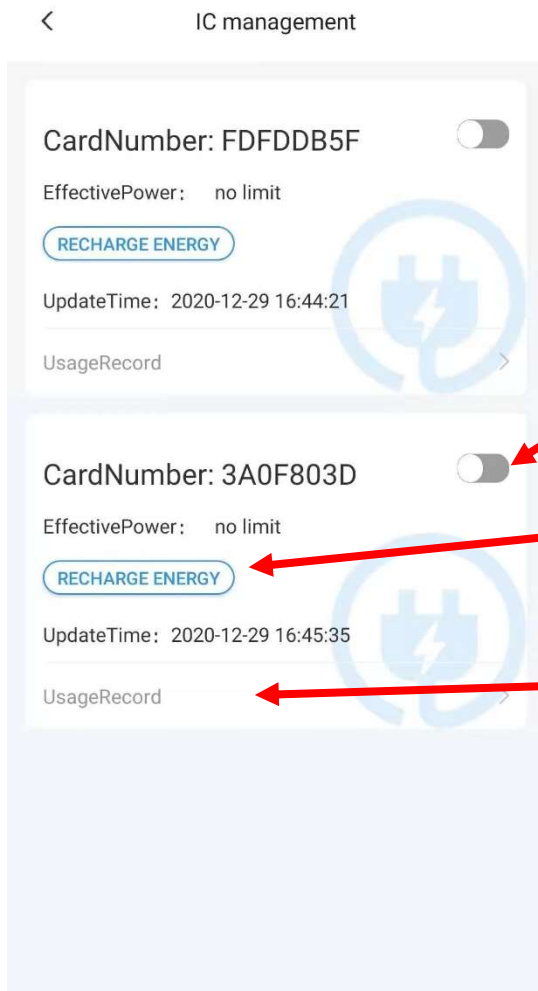
2 User can rename the charging station.

3 User can check the charging station firmware update.

## 4 IC management



Swipe the IC card on the orange area of the charging station.



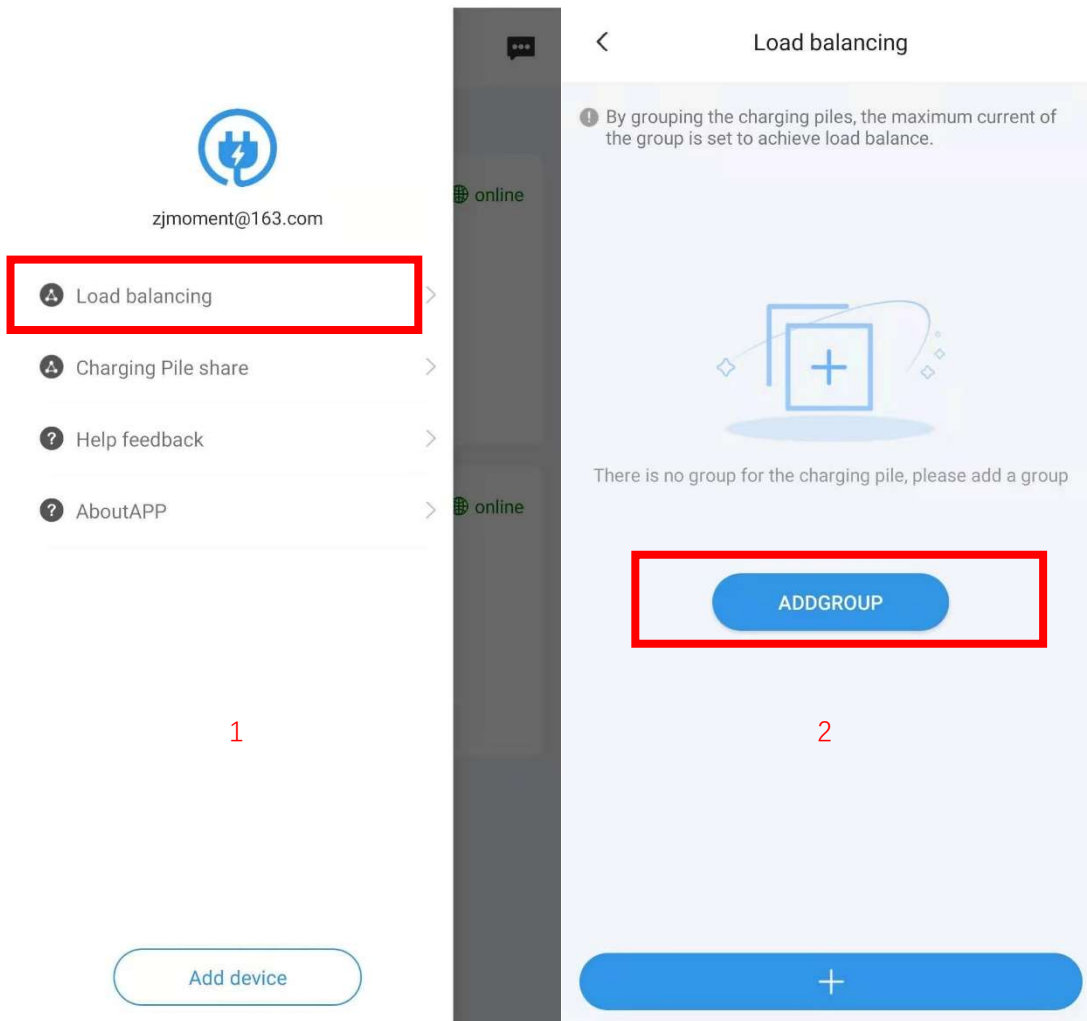
User press and down to refresh page after swiping card.

IC card enable switch

Set the limit power of card

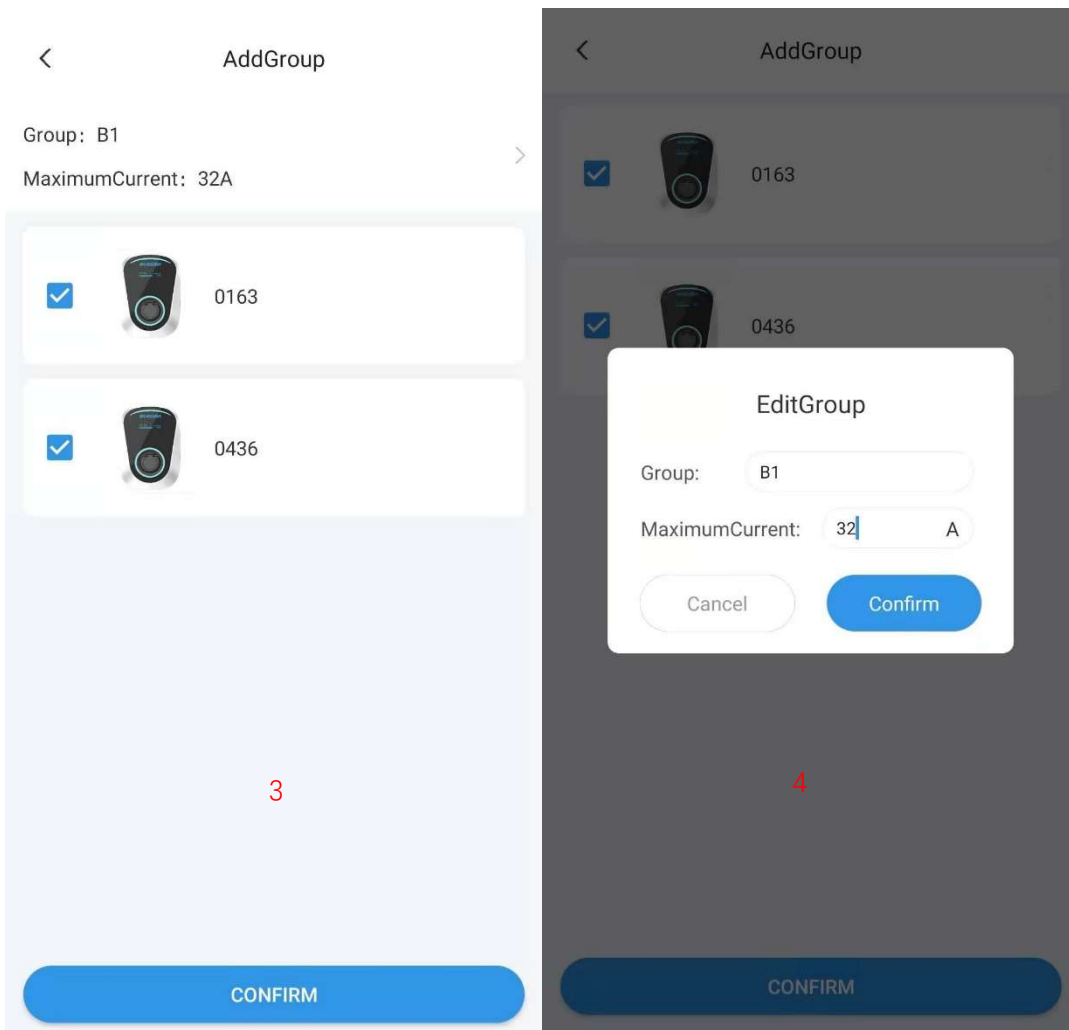
Using history of card

# 13 Load balancing



Step 1: Select the Load balancing in APP menu.

Step 2: Press the ADD GROUP.



Step 3: Select the required load balanced charging stations.

Step 4: Set Group name and Group Max current.



## Load balancing



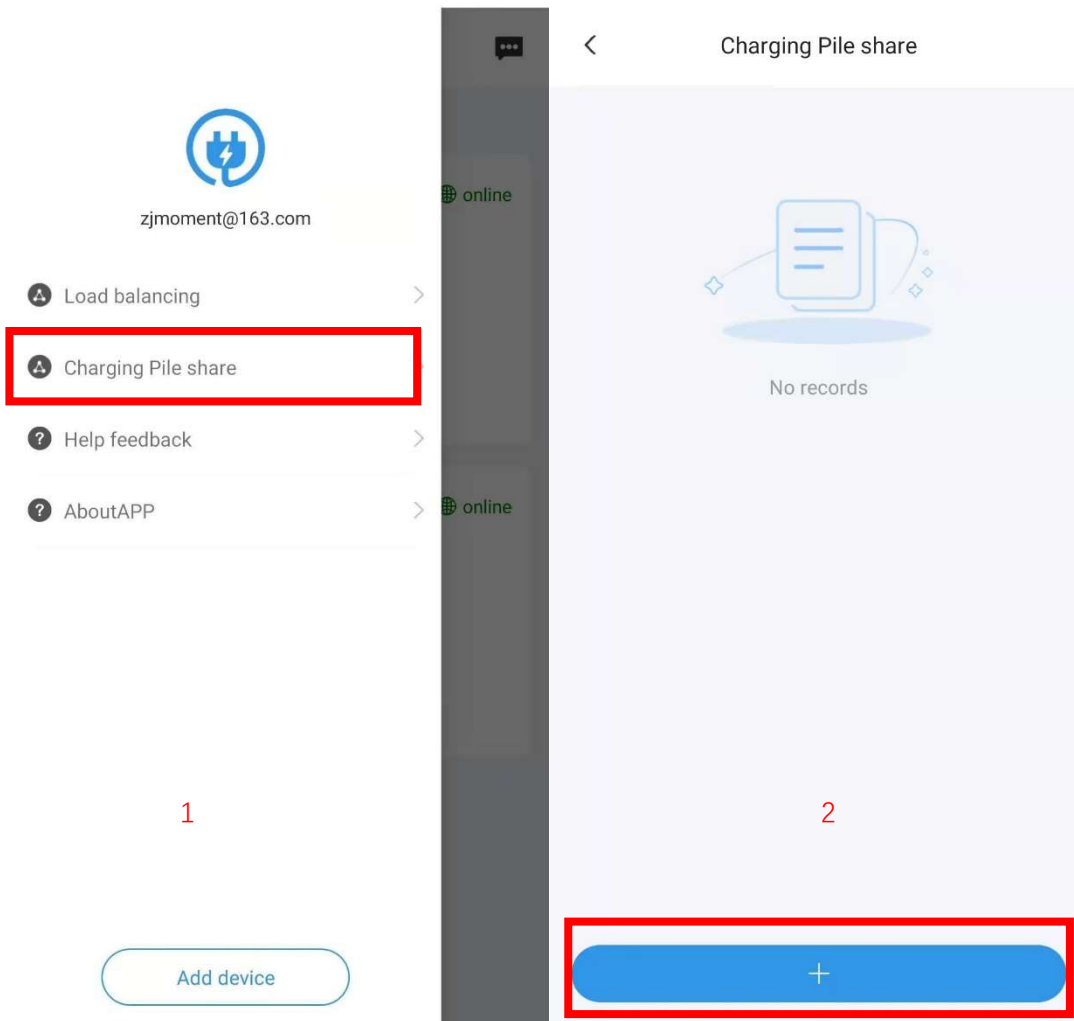
Group: B1

MaximumCurrent: 32.0A



When multiple charging stations in the group are charged at the same time, The charging stations will distribute the current equally, if total current of the charging stations reaches the group limit max current.

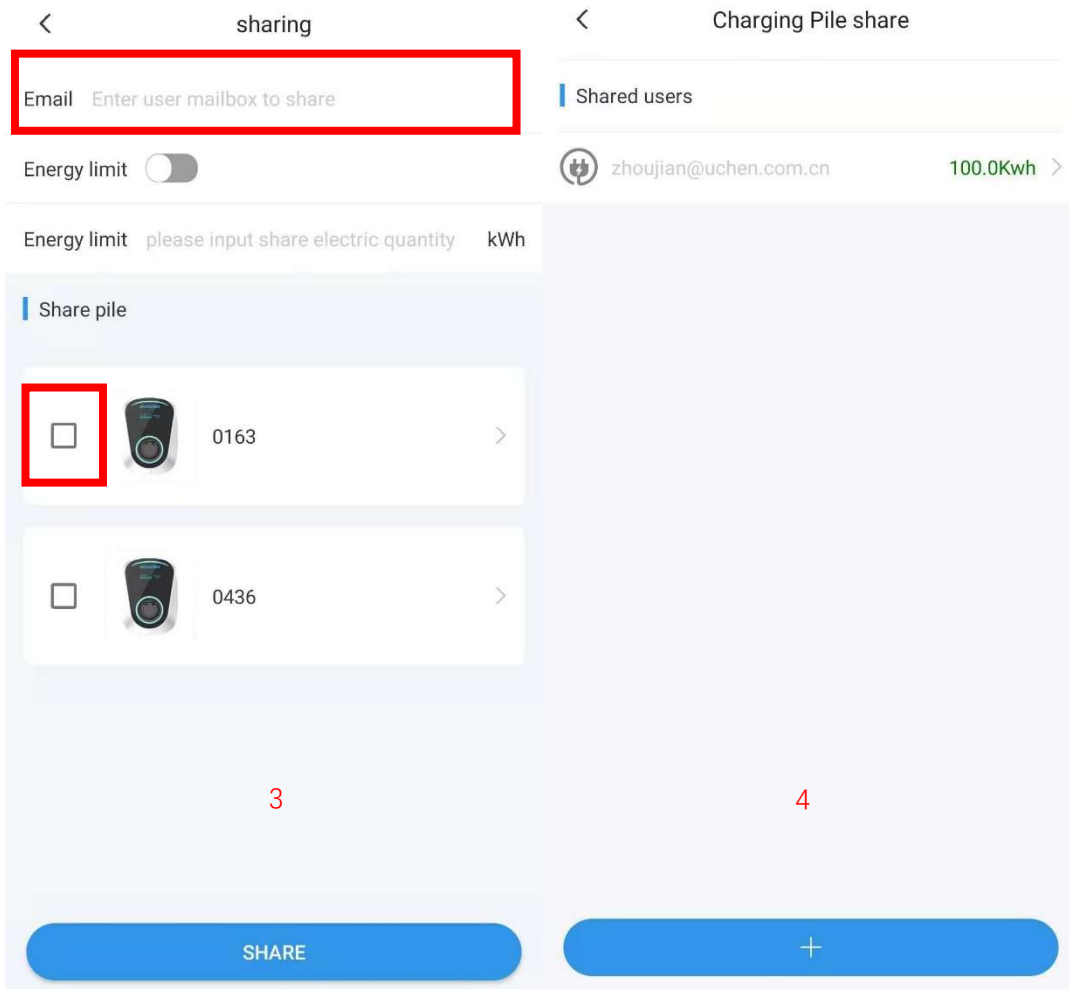
# 14 Charging station share



Step 1: Press charging station share in APP menu.

Step 2: Press symbol +.

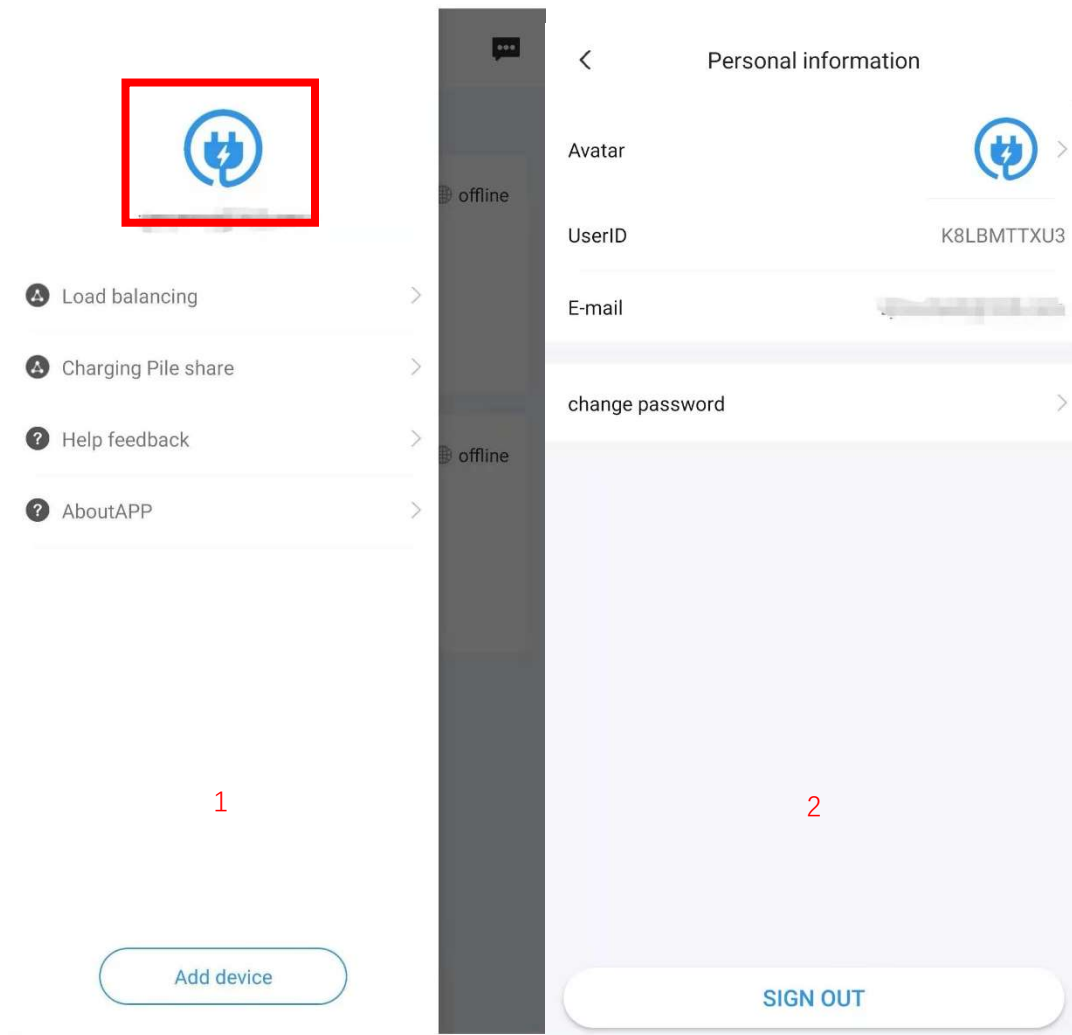




Step 3: Fill in the sharing user's e-mail, Select charger station to share. And it can limit the amount of energy users can charge.

Step 4: Completed sharing.

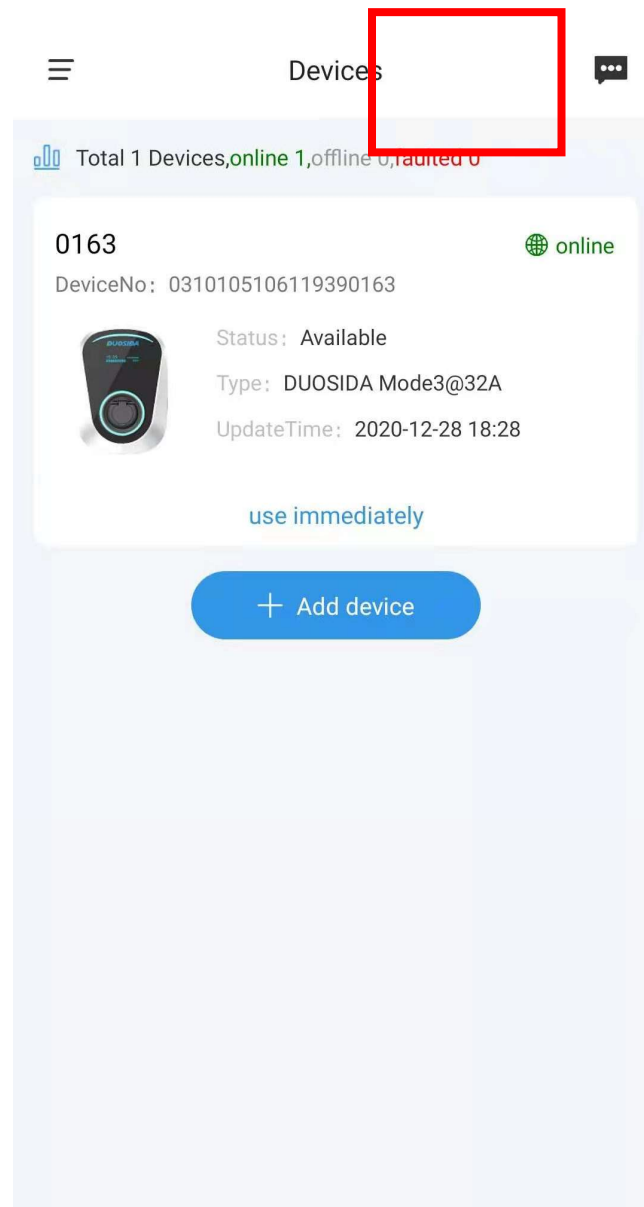
# 15 Personal information



Step 1: Press the icon from the menu to enter personal setting.

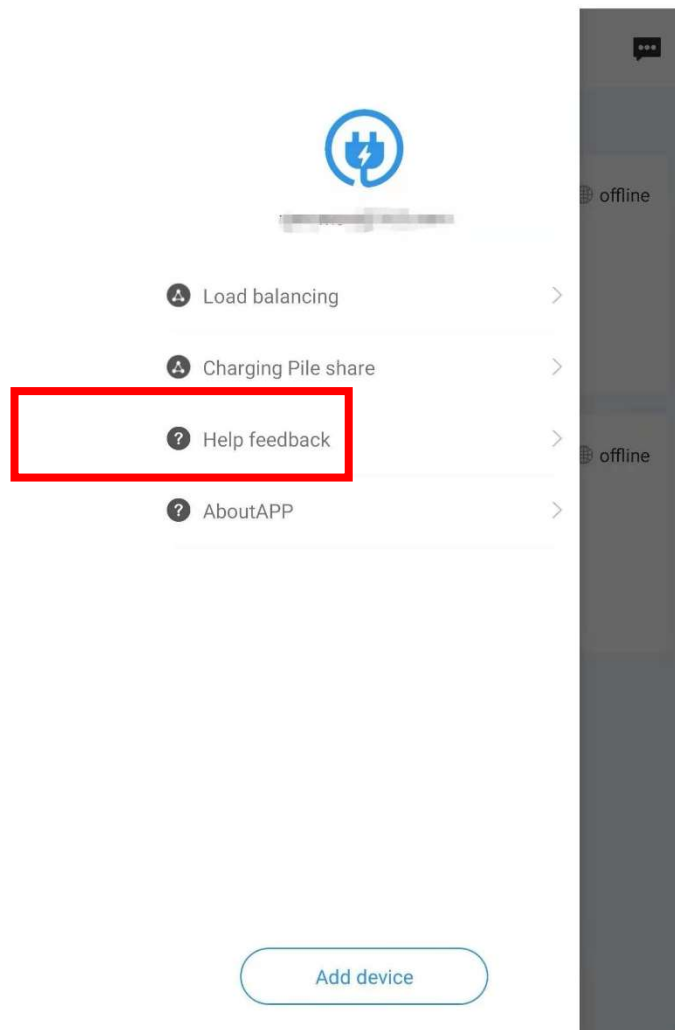
Step 2: User can change the Avatar and password in this page.

# 16 Message center



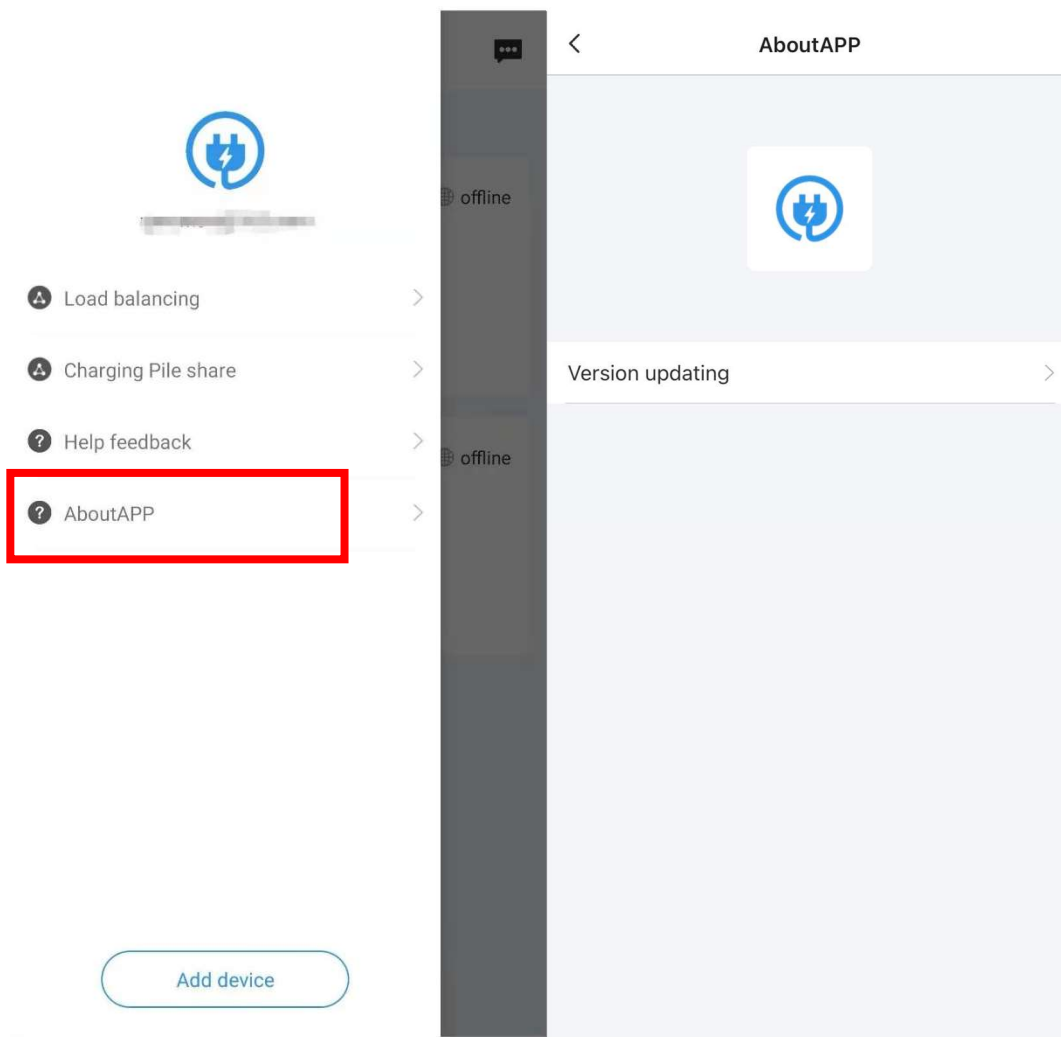
The message center contains system messages and feedback.

# 17 Help & feedback



The FAQ and user's manual can be found here, and user can feedback questions.

# 18 About APP



User can check software updating information in this page.

# Smart charge APP Function Manual

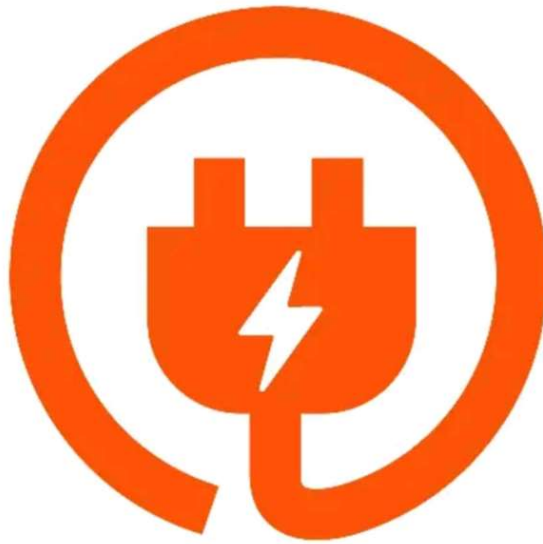


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## 1. The APP

You can find the APP “**Duosida Charger**” in your App- or Play-Store.



**Charge Point Details**

Check found EV side S2 Switch disconnected.

Parameter	Value	Unit
Voltage:	223.70	V
Current:	0.00	A
CP State	6V	
Work Time:	0H:1M	
Energy:	0.00	KWH
Temperature:	48.4	°C

Busy   Schedule   IC Card   Settings



## 2. Connection

After installing the APP, please turn on the EV Charger.



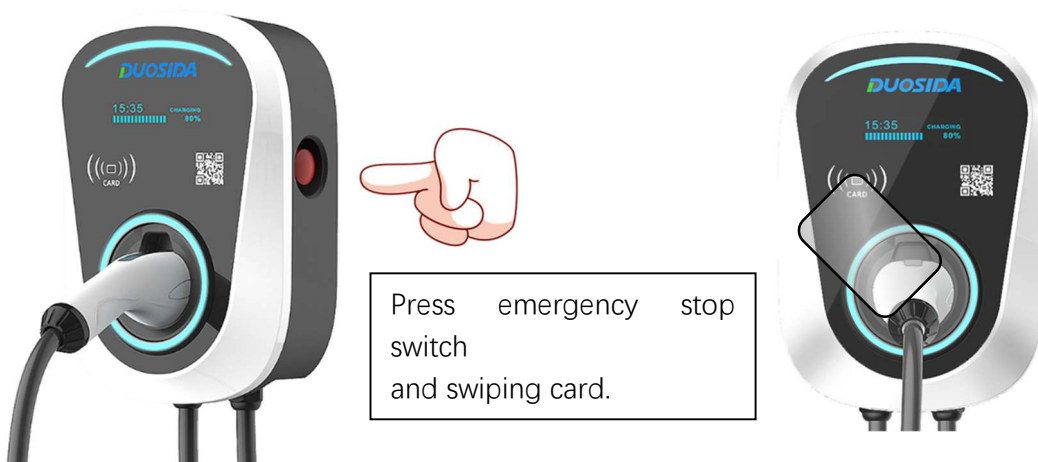
\*1: After the charger is turned on, the circular indicator light and the arc indicator light turn red. At this time, the charger needs to be unlocked with the mobile phone APP.

### 2.1 WiFi-Setting Mode

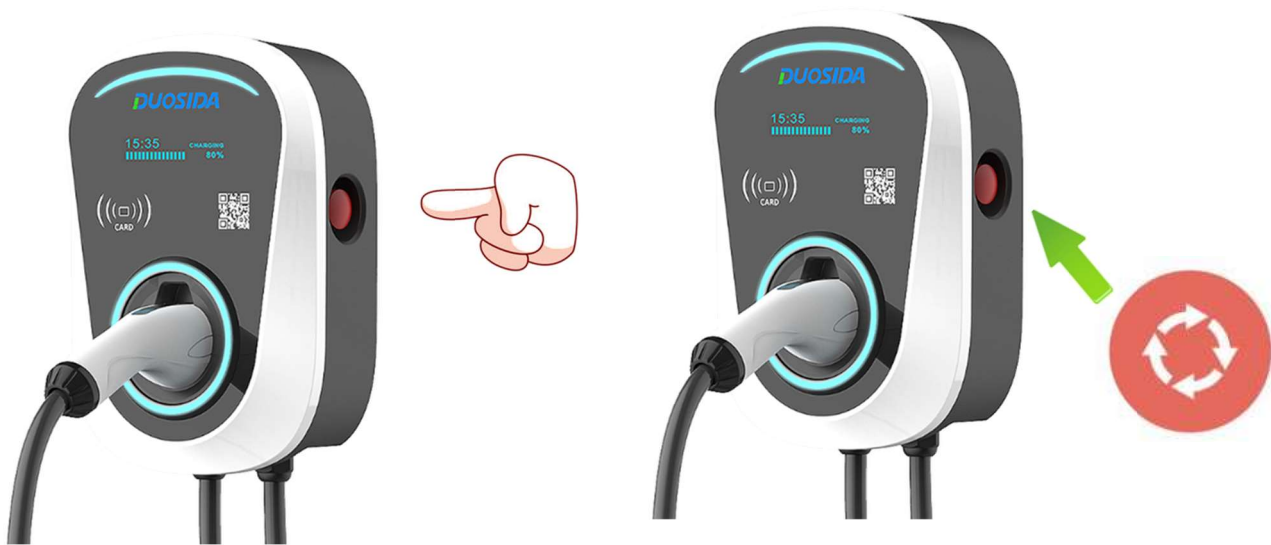
#### 2.1.1 IC-Karte

Use the IC-Card to get into the WiFi-Setting Mode.

Please power on again and enter WiFi Configuration Mode in 2 minutes.

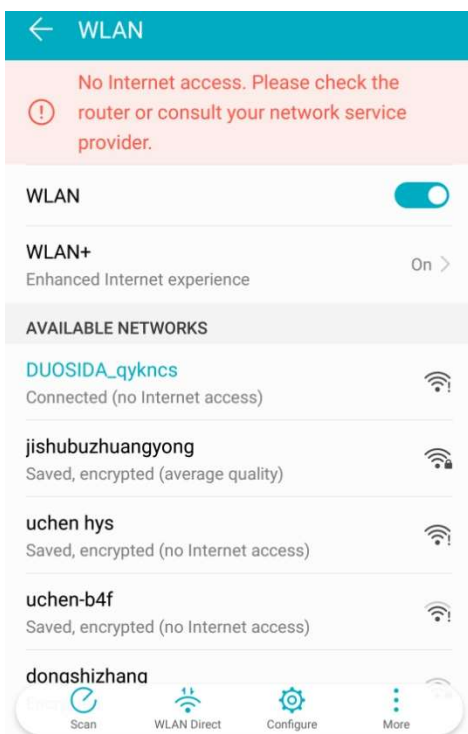


## 2.1.2 Emergency Stop Switch



Or use the emergency stop switch to enter WiFi configuration mode.

Use your smart phone to connect the charger's WiFi



Find the network of DUOSIDA\_XXXX,  
enter the password: duosida@cp

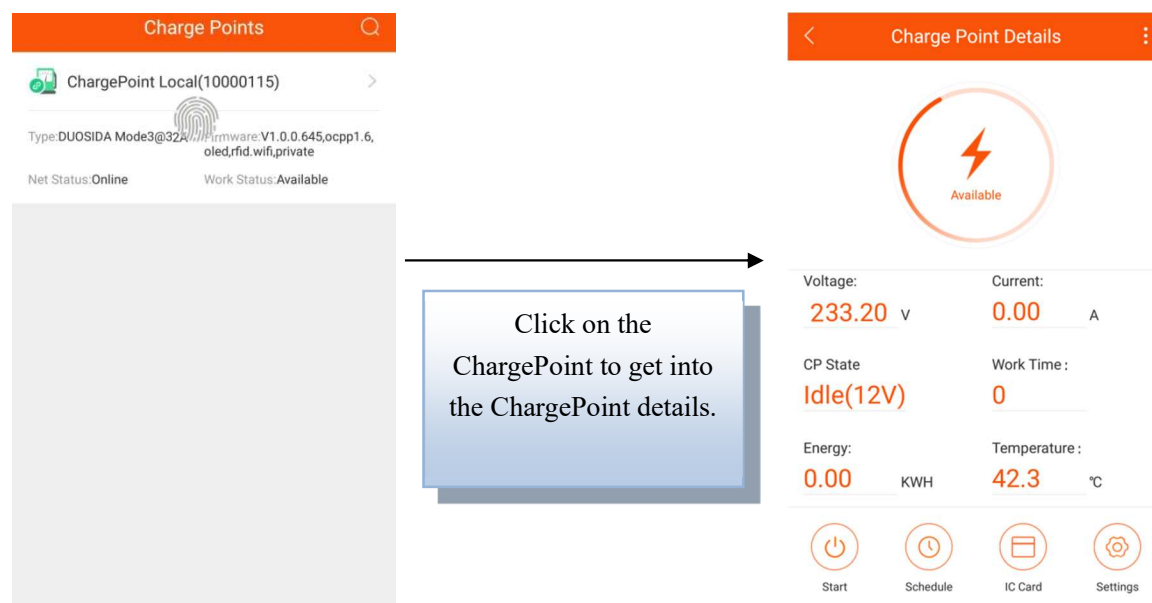
**Note:** After being connected to the WiFi network of the charger, the mobile phone may prompt that it cannot connect to the Internet and keep the current connection.

### 3. Functions

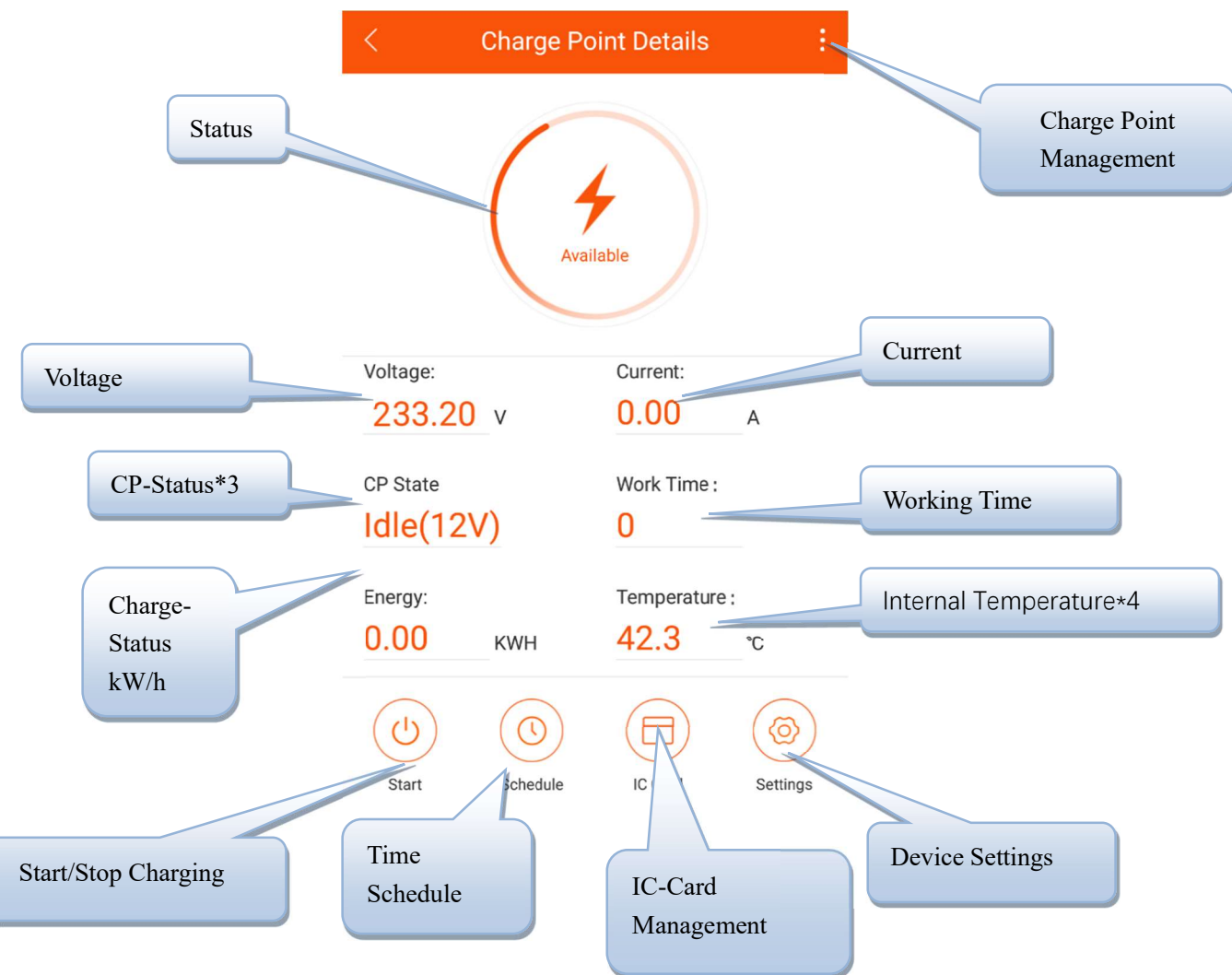
#### 3.1 Selection of the EV Charger



\*2: If red appears here, please scroll down again to refresh.



## 3.2 Details for the EV Charging Station

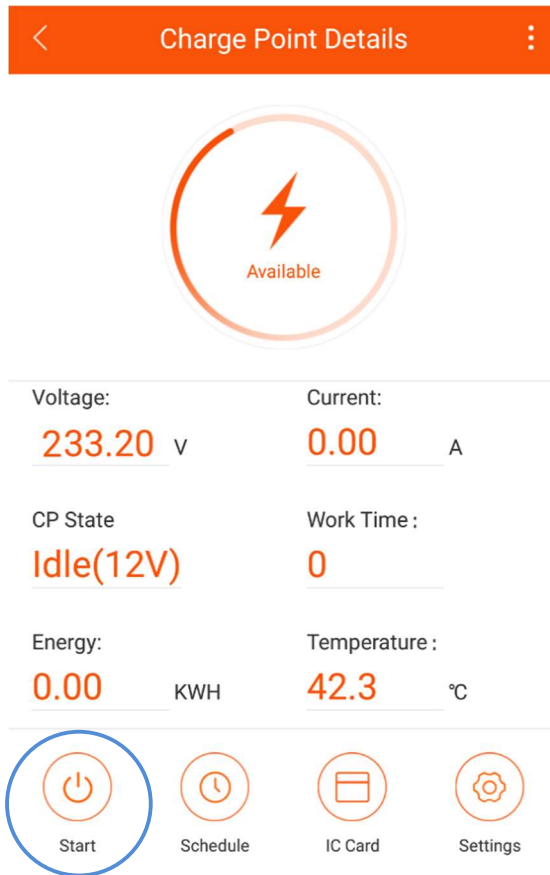


\*3: Idle is for standby status, 9V is for prepare charging, and 6V PWM is for charging status.

\*4: This temperature is for the internal chip temperature, it is around 15 °C higher than the internal environment.

### 3.3 The Charging Procedure

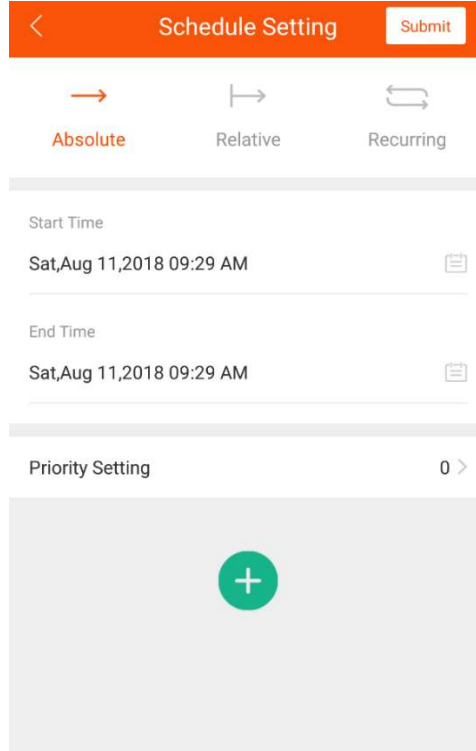
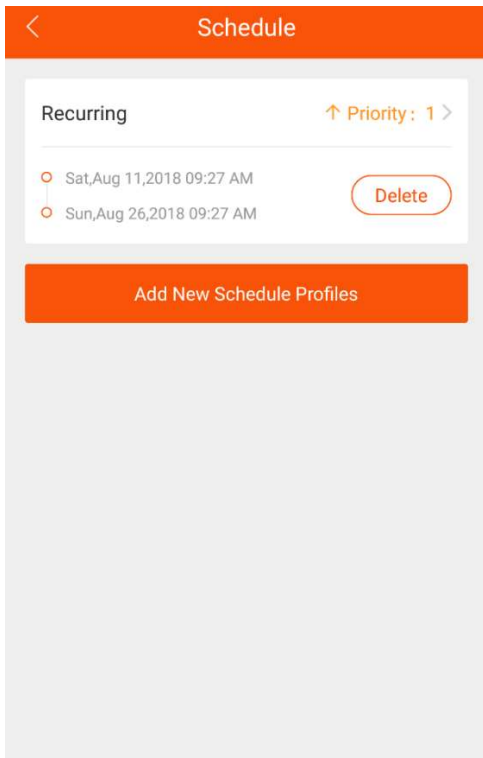
1. Plug the charging plug into the electric vehicle charging socket.
2. Use the APP to enter the charging details page, and click the start charging button or use the IC card to start charging.



3. Click the stop charge button in the APP or use IC to stop charging.

**Note:** If you use the APP to start charging, then you need to click the stop button in the APP when you want to stop charging (the EV will automatically stop when it is fully charged), and you must use the IC card to stop charging when you start charging by IC.

## 4. Time Schedule Setting



There are three types of time schedules possible:

1. Absolute
2. Relative
3. Recurring

### 1. Absolute:

During the time period of the task, the EV Charger performs the charging according to the set time point.

Example:

The image shows two screenshots from an EV Charger application. The top screenshot is the 'Schedule Setting' screen, which has an orange header with a back arrow, the title 'Schedule Setting', and a 'Submit' button. Below the header are three tabs: 'Absolute' (selected), 'Relative', and 'Recurring'. The 'Start Time' is set to 'Tue, Oct 23, 2018 06:00 AM' and the 'End Time' is 'Wed, Oct 24, 2018 06:00 AM'. The 'Priority Setting' is '6'. Under 'At Start', there are three options: 'Close >', '12Hour Later' (16.0A >), and '18Hour Later' (32.0A >). The bottom screenshot is the 'Charge Point Details' screen, featuring a large circular indicator with a lightning bolt and the word 'Available'. Below this are four rows of data: Voltage (233.20 V), Current (0.00 A), CP State (Idle(12V)), and Work Time (0). Another row shows Energy (0.00 KWH) and Temperature (42.3 °C). At the bottom is a navigation bar with four icons: 'Start' (circled in blue), 'Schedule', 'IC Card', and 'Settings'. Five blue callout boxes provide instructions: 1. 'Set the task start time.' (pointing to the start time field), 2. 'Set the task end time.' (pointing to the end time field), 3. 'Click the "+" to add the schedule for charge. Current can set the MAX charging current. If write "0" it will stop charge during this time, to write "1" is bypass (the schedule does not to manage charge point during this time).' (pointing to the '12Hour Later' option), 4. 'Send the time schedule to the ChargePoint.' (pointing to the 'Submit' button), and 5. 'Click the Start Button to enable the task.' (pointing to the 'Start' button).

4. Send the time schedule to the ChargePoint.

1. Set the task start time.

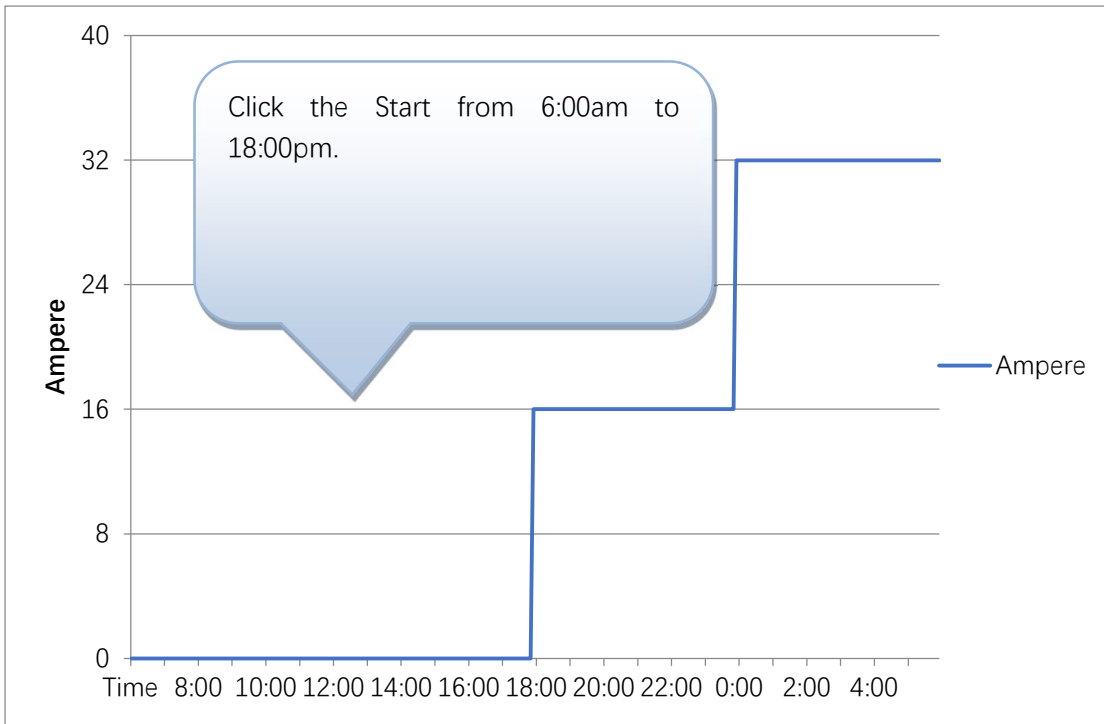
2. Set the task end time.

Priority: The smaller the number, the higher the priority task.

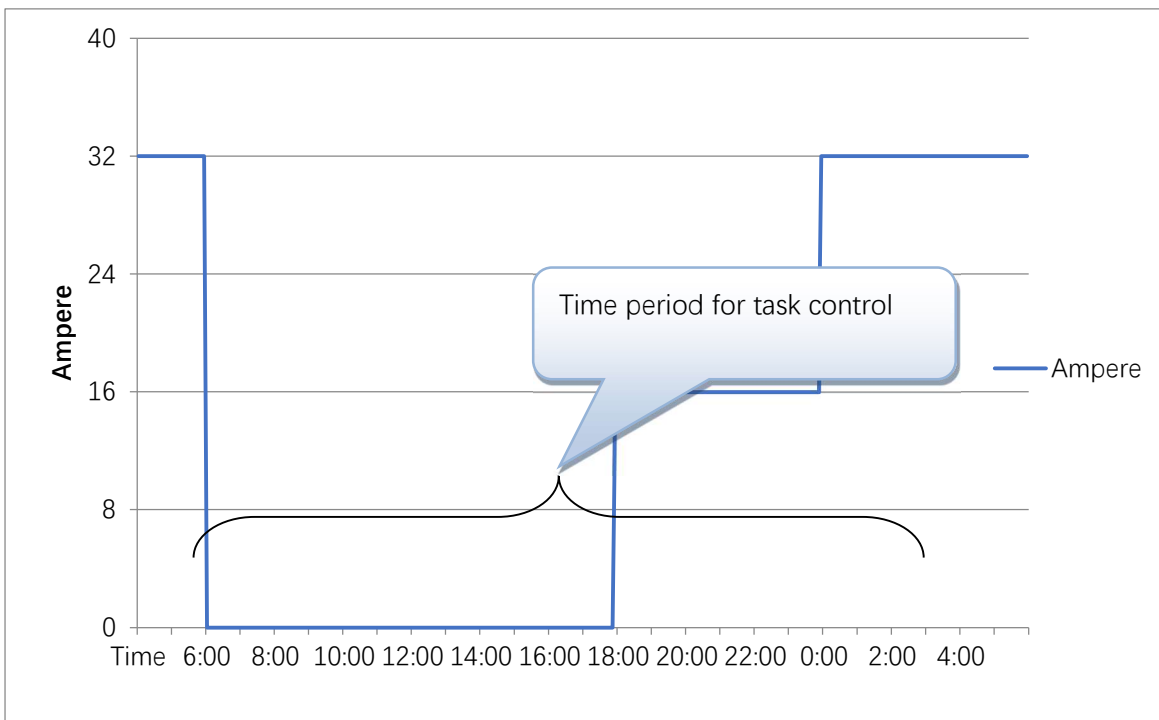
3. Click the "+" to add the schedule for charge. Current can set the MAX charging current. If write "0" it will stop charge during this time, to write "1" is bypass (the schedule does not to manage charge point during this time).

5. Click the Start Button to enable the task.

Clicking on the start time will affect the actual charging chart.



The task activated between start time and end time only.  
 If you click the Start at 4:00AM, the charger will work at default 32A.





## 2. Relative

The charging chart is based from start time of charging session.

Example:

< Schedule Setting Submit

Absolute **Relative** Recurring

---

Start Time  
Tue, Oct 23, 2018 06:00 AM

End Time  
Wed, Oct 24, 2018 06:00 AM

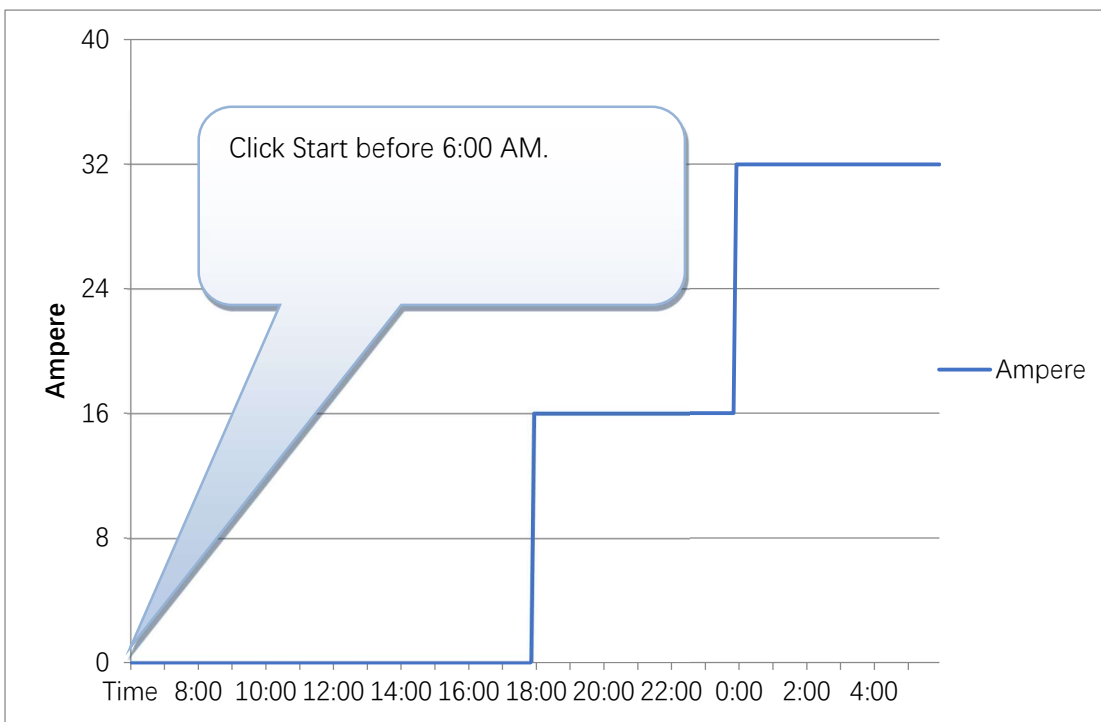
---

Priority Setting 5 >

At Transction Start >

At Start	Close >
12Hour Later	16.0A >
18Hour Later	32.0A >

This part setting same to example "absolute".  
"12Hour Later" and "18hour Later" is the time from when you click Start.



### 3. Recurring

The loop execution can be set to cycle by day or cycle by week.

Example:

You want to charge from 8pm to next day 6pm on Mondays to Fridays, and all day on Saturdays and Sundays. We can set to two Recurring tasks.

#### The first task:

**Schedule Setting** Submit

→ | ⇌ | ↺  
Absolute | Relative | **Recurring**

Start Time  
Tue, Oct 23, 2018 12:00 AM

End Time  
Fri, Nov 23, 2018 12:00 AM

Priority Setting 5 >

Recurring Kind Week(Start From Monday) >

After Monday 00:00:00	Bypass >
After Monday 18:00:00	32.0A >
After Tuesday 06:00:00	Bypass >

After Tuesday 18:00:00	32.0A >
After Wednesday 06:00:00	Bypass >
After Wednesday 18:00:00	32.0A >
After Thursday 06:00:00	Bypass >
After Thursday 18:00:00	32.0A >
After Friday 06:00:00	Bypass >
After Friday 18:00:00	32.0A >
After Saturday 06:00:00	Bypass >

+ (Add New Schedule Profiles)

#### The second task:

**Schedule Setting** Submit

→ | ⇌ | ↺  
Absolute | Relative | **Recurring**

Start Time  
Tue, Oct 23, 2018 12:00 AM

End Time  
Fri, Nov 23, 2018 12:00 AM

Priority Setting 1 >

Recurring Kind Week(Start From Monday) >

After Monday 00:00:00	Bypass >
After Saturday 00:00:00	32.0A >

**Schedule**

Recurring ↑ Priority: 1 >

- Tue, Oct 23, 2018 12:00 AM
- Fri, Nov 23, 2018 12:00 AM

Delete

Recurring ↑ Priority: 5 >

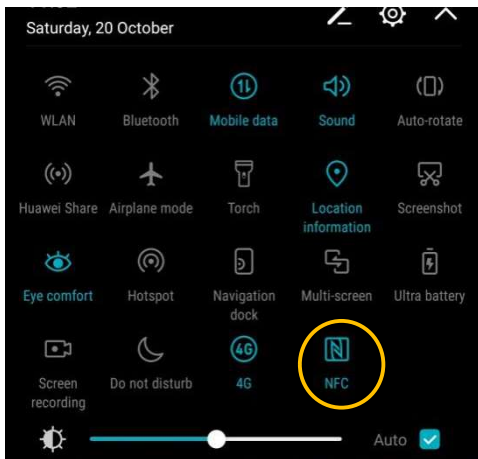
- Tue, Oct 23, 2018 12:00 AM
- Fri, Nov 23, 2018 12:00 AM

Delete

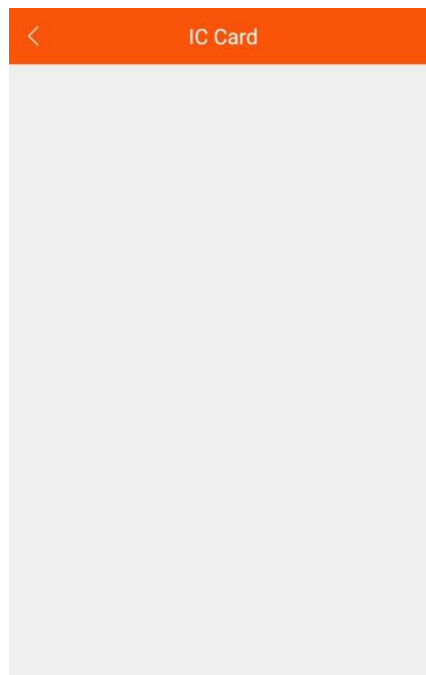
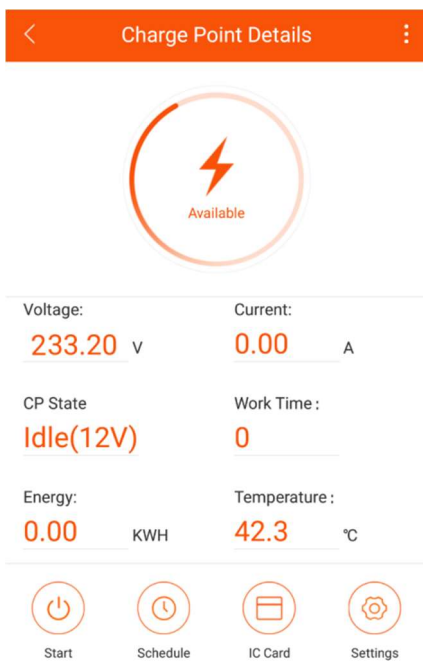
Add New Schedule Profiles

## 5. IC-Card Management System

For mobile phones that support NFC, special IC CARDS can be added to the IC card management system of the APP. The IC card's ID, effective time, maximum power and among them, the maximum available power information is stored on IC card. The other information is stored in the cache of charger.



Please turn on the NFC switch on your phone. The APP will apply for the NFC usage authorization. Please click the permission, otherwise the IC card cannot be added.



Drücken Sie auf "IC-Karte", um in die Einstellungszeit der IC-Karte zu gelangen.



IC Card	
ID	2D012D60
Expiry Time	2020-10-19
Energy	999 KWH
<input type="button" value="Submit"/>	

ID of the IC-Card

IC-Card effective time.

Input IC-Card kW/h

Place the IC card that needs to be added near the NFC module of the phone. After reading the information of IC card, the setting window will pop up. Set the kWh and click ok to add. If there is no response, please change a few more areas to stick, or ask the mobile phone manufacturer to confirm the location of the NFC module.

Please Swipe Same Card To Continue...

Put the IC card near the NFC module of mobile phone again and then activate the card.

IC Card	
ID	8D6C2D60
Expiry Time	2020-08-10
Enable	<input checked="" type="checkbox"/>

IC-Card enable

1. The charger owner use the APP to issue the cards to the user according to the user's demand, and sets the kWh limit of IC card according to the need.
2. The owner of the EV Charger decides which chargers can be used and which chargers can not be used for the IC card set (all Settings are for offline storage, the electricity information is saved on the IC card, and the authentication information is saved on the charger).
3. Please use the specified IC card to the corresponding charger, and the card starts charging. When the charge

is completed, the charge can be stopped by swiping the card again. If you don't want to charge, you can cancel the current charge by simply swiping the card.

4. When charging is completed, the user needs to swipe the card to end the charging, and the charged kWh on the card will be deducted from the charging process.
5. When the balance of kWh on the card is insufficient, the user needs to ask the owner to add the kWh power.

**Note: Under this mode, the charger can not be open "Plug then charge mode" and the "Stop transaction on EV side disconnect" function can not be stopped by pulling the connector.**

## 6. Charger Status

There are 9 states of chargers. The current status information will be displayed on the corresponding screen. Here is an explanation of 9 working states:

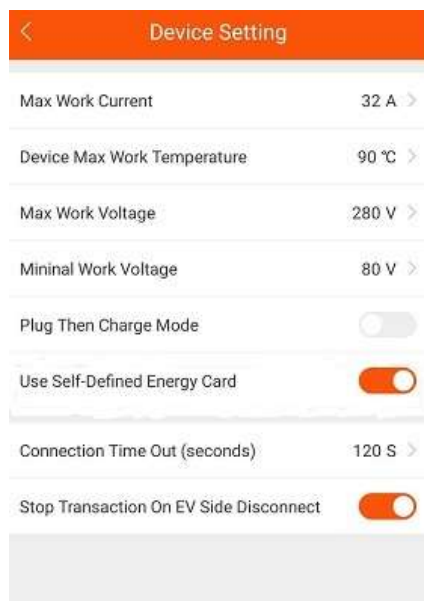
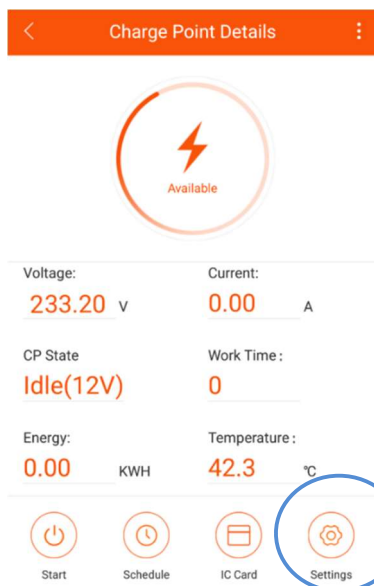
<b>Name</b>	<b>explanation</b>
<b>Unavailable</b>	The charger is in an unusable state, under which the charger cannot be charged: <ol style="list-style-type: none"><li data-bbox="520 472 1233 551">1. Charger is unavailable after power on, and needs to be activated by mobile APP.</li><li data-bbox="520 557 1233 629">2. In the upgrade state, WIFI will be switched to unavailable.</li></ol>
<b>Available</b>	The charger is in an idle state, in which the user can operate the charger.
<b>Preparing</b>	The charger is in the state of preparing charging. The following situations will trigger the charger to enter the state of preparation. If the charger enters the state of preparation without charging, it will return to the state of availability or charging completion after timeout: <ol style="list-style-type: none"><li data-bbox="520 927 1233 1173">1. The charger will enter the preparation state when the charger is inserted, but it still needs user authentication to start charging (except the open plug-in and charging mode). The timeout period for the plug-in waiting for authentication is 120 seconds, which can be configured in the APP;</li><li data-bbox="520 1180 1233 1296">2. The phone will start charging remotely. If the user does not have in the plug, than it will wait for the user to put it in;</li><li data-bbox="520 1303 1233 1375">3. Swiping the card when no plug inserted into the vehicle.</li></ol>
<b>Charging</b>	When all charging conditions are met, the charger will enter the charging state.
<b>SuspendedEVSE</b>	When the working conditions of the charger are not satisfied, the charger will enter the state of SuspendedEVSE, and SuspendedEVSE and will be triggered in various cases: <ol style="list-style-type: none"><li data-bbox="520 1968 1233 2085">1. The Charger enters protection conditions, such as over voltage, over current, over temperature, leakage, emergency stop, etc.;</li><li data-bbox="520 2092 1233 2121">2. In the charging process, the scheduling condition is</li></ol>

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	not satisfied, resulting in the active suspension of <b>SuspendedEVSE</b> .
<b>SuspendedEV</b>	<b>SuspendedEV</b> mainly occurs when the S2 switch of the EV is not closed.
<b>Finishing</b>	<ol style="list-style-type: none"><li>1. In the state of preparation, the charger will enter the state of charging completion if the plug is inserted and the device has timed out;</li><li>2. The charging state will be entered after charge finished</li></ol>
<b>Reserved</b>	No support, not applicable to current charger.
<b>Faulted</b>	Charger error occurred.

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## 7. Settings



Maximum working current: Sets the maximum working current of the charge point, which is globally effective. If the current value of the dispatching setting is greater than this value, it will be subject to the current value.

Maximum operating temperature: the maximum operating temperature of the charge point is set.

Maximum working voltage: set the maximum working voltage of the charge point.

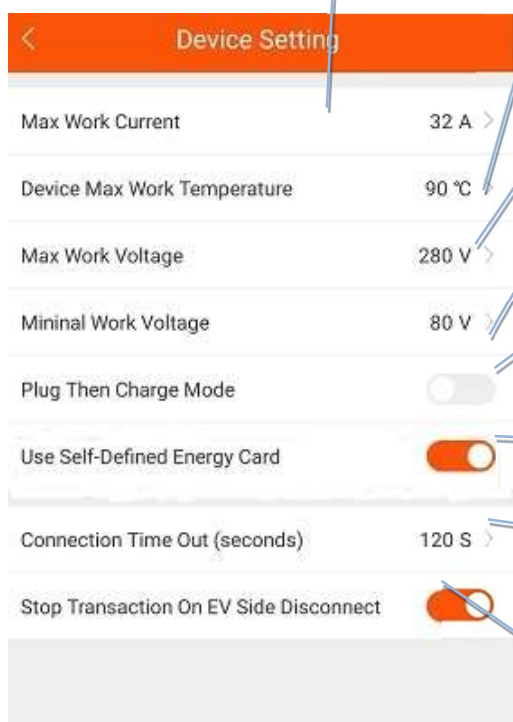
Minimum working voltage: set the minimum working voltage of the charge point

Enable the Plug then charge mode.

Enable the IC card management system.

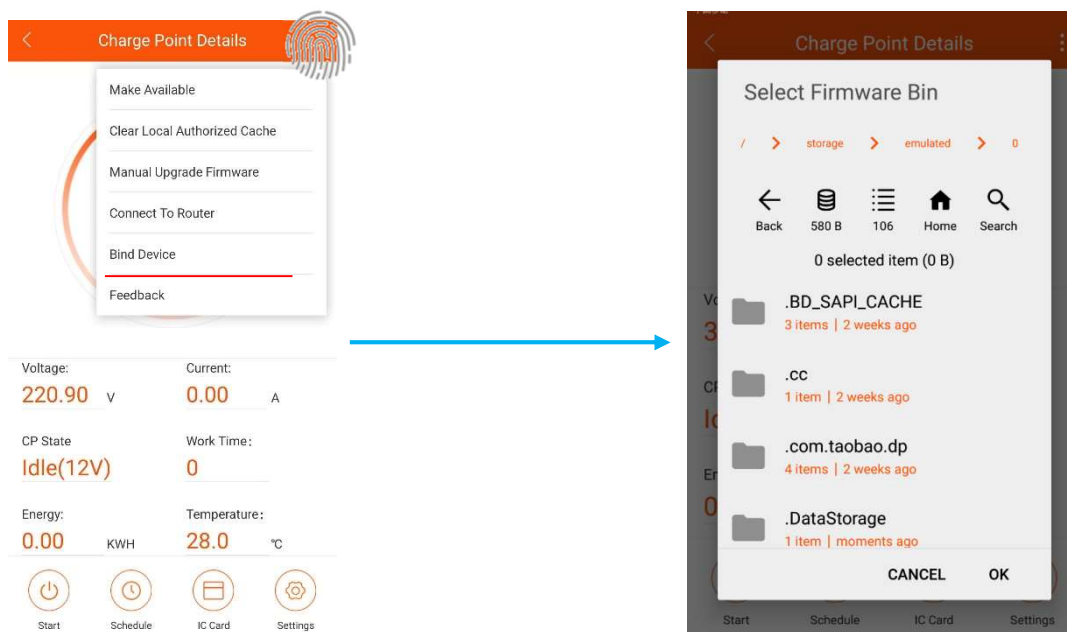
Timeout of charge insertion: timeout of charger readiness.

Disconnection of the car terminal stops the charging transaction: if it is on, it will not start charging automatically after pulling the plug out or the car stops charging.



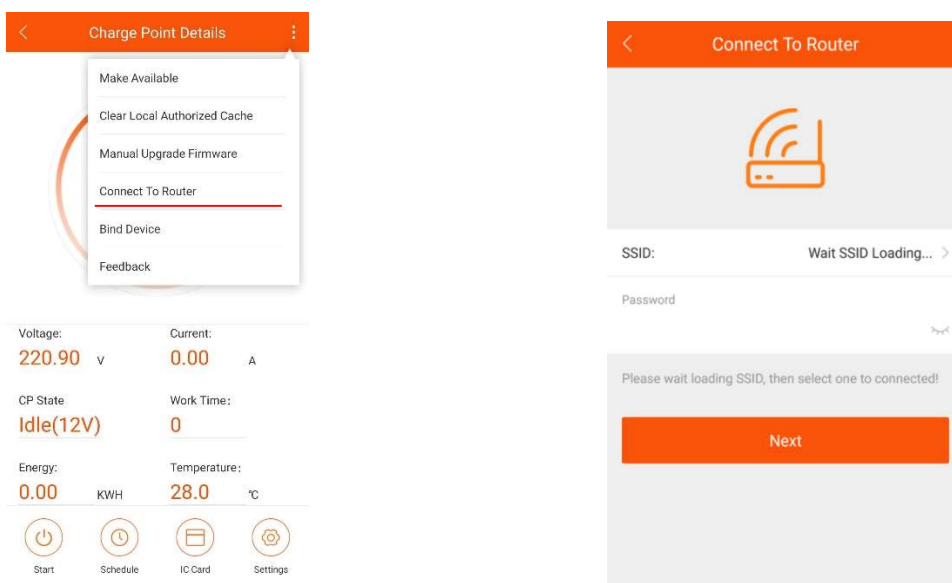


## 8. Firmware Upgrade



Here you can upgrade the software inside the charger.

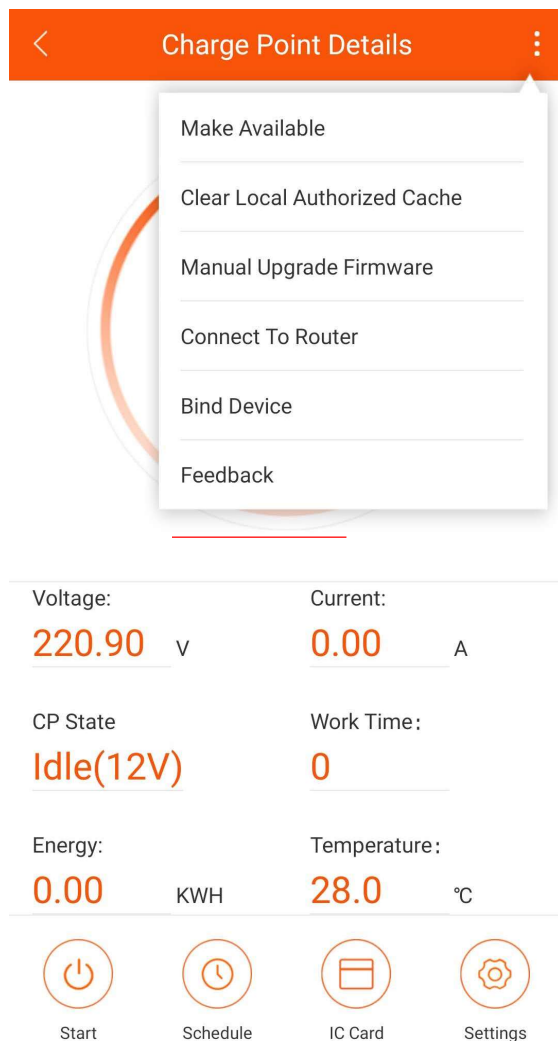
## 9. Router Connection



You can set up the charger to connect to a designated router. Press "to connect to the router", and wait for about 10 seconds, then choose router name (SSID) and password. The charger will restart after the setting. Then connect the phone to the router and enter the APP again.

You can control the charger within the same network.

## 10. Bind Device



You can control the charger anywhere when it is bound.

**Note: The charger needs to connect to router before binding, and the router needs to connect to internet.**