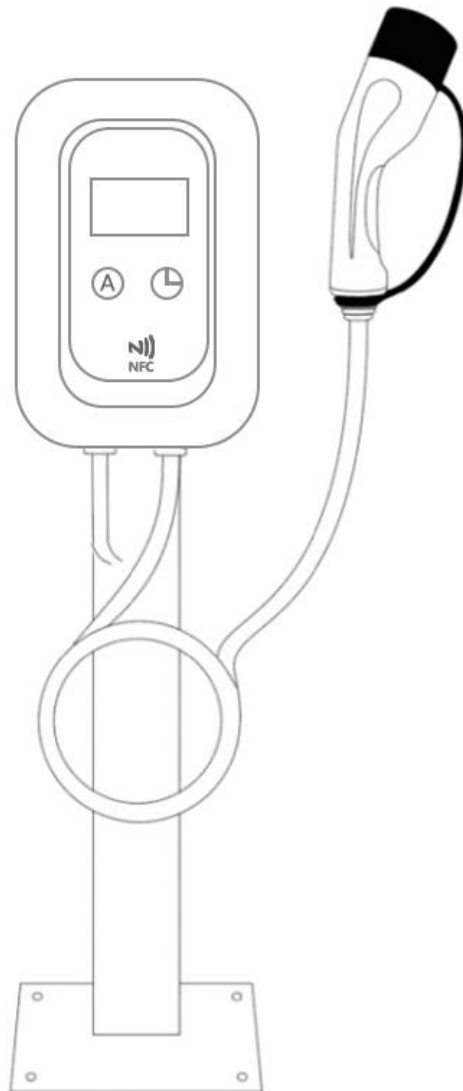


USER MANUAL

AC EV CHARGER



Installation and operation guide V.1.1

1. Forewords

Thank you for purchasing our home charging pile. This product is specially designed for electric vehicle users, providing a safe and convenient charging solution.

The product adopts a 32-bit control system, integrating intelligent control functions such as charging control, overcurrent detection, and overvoltage detection.

The charging device is easy to install and operate. It allows charging anytime and anywhere as long as there is an AC power supply.

1.1 Product Features

- Compatible with most electric vehicle models
- Fast charging capability to shorten charging time
- Intelligent charging management to prevent overcharging
- Waterproof design suitable for indoor and outdoor installation
- Intuitive LCD display or LED status indicator
- Remote monitoring and control functions (requires APP support)

2. Important notices

Before installation and commissioning.

Observe all safety regulations and instructions in this manual!

Read the manual and the data sheet carefully and keep them for future reference. The documents are intended to help you:

- To use the product safely and properly
- Increase the durability and reliability
- To avoid damage to the device or property
- To prevent a threat to life and limb

Safety Instructions:

- The following instructions are very important. Please read them carefully to ensure safety!
- The charging station must be kept away from water, fire, smoke, hazardous gases, etc.
- The charging station should be installed vertically, with an inclination of no more than 5° from the vertical.
- Before use, ensure that the charging station is reliably grounded.
- When the charging station is powered on, operators must maintain a safe distance from the charging station.
- When unplugging the charging cable, be careful not to use excessive force. Do not unplug or remove the charging cable violently.
- Do not unplug the charging plug while the system is operating.
- Do not press the emergency button unless absolutely necessary.
- If any abnormal sound, vibration, sparks, smoke, or other serious symptoms occur during operation, press the emergency button immediately.
- Electric shock can be fatal. Do not plug into the socket or plug system by hand or with the help of technical aids.
- Installation and maintenance must be carried out by a qualified electrician or specialist personnel.

Attention: Disregarding the security notice can have serious consequences. The company declines any liability for damage caused by disregarding the operating instructions, or warnings on the unit.

Daily checks :

- Promptly clean the charger as needed, including the exterior, cables, and charging plugs, focusing on checking for cracked or damaged cables.

- Every year required to check whether the terminals and wiring cables are insulated and sturdy; test the contactor and relay contacts and contact force of the action, whether the jumper cap solder pins of the circuit board are loose and whether the components are sturdy; press the circuit breaker leakage test button of the charging pile, whether the circuit breaker can automatically disconnect; test the emergency button; check whether the control function and state switching of each module are correct.

When inspecting equipment on a daily check, focus on the following sections:

- (1) Observe the appearance for integrity, ensure no cracks, no deformation, no electric shock scorch.
- (2) Slightly shake the charger to see if it is fixed stably and without looseness.
- (3) During charging, lightly touch the box to make sure whether the surface of the charging pile is over-heated.

3. Product overview

Technical data

The EV charger is designed, produced, and tested in strict compliance with relevant European standards (IEC61851-1, IEC 61851-21, IEC 61000, and ROHS directive). It is equipped with reliable electrical protection, and moisture-proof, dust-proof, waterproof, anti-mildew, anti-salt spray and other functions.

	7KW	11KW	22KW
Display screen :	4.3-inch LCD screen	4.3-inch LCD screen	4.3-inch LCD screen
Charging plug :	GBT/Type1/Type 2/Tesla	GBT/Type1/Type 2/Tesla	GBT/Type1/Type 2/Tesla
Power supply :	1P+N+PE	3P+N+PE	3P+N+PE
Rated input/output :	230V AC	400V AC	400V AC
Rated power :	7KW	11KW	22KW
RCD built-in :	30mA Type A	30mA Type A + 6mA DC	30mA Type A + 6mA DC
Over/ under Voltage:	230V AC	400V AC	400V AC
Over Temperature:	85°C	85°C	85°C
Rated Frequency:	50/60Hz	50/60Hz	50/60Hz
Rated Current:	8A/10A/13A/16A/32A	8A/10A/13A/16A	8A/10A/13A/16A/32A
Operating Temperature:	-30°C~+50°C	-30°C~+50°C	-30°C~+50°C
Storage Temperature	-30 ~ +60°C	-30 ~ +60°C	-30 ~ +60°C
IP Degree of Protection	IP55	IP55	IP55
Net weight:	3.5kg	3.5kg	3.5kg

4. Installation instruction

Package list:

AC EV Charger × 1

Gun Holder × 1

Wall-mounted Bracket (including screws)

User Manual × 1

Prepare

When transporting or moving the charging station, pay attention to the following points to ensure product safety: This product is electrical equipment. It should be handled with care to avoid violent vibration and impact.

The LCD screen part cannot be used as a stressed part for handling.

The charging station shall not be transported by dragging the charging connector and its charging cable.

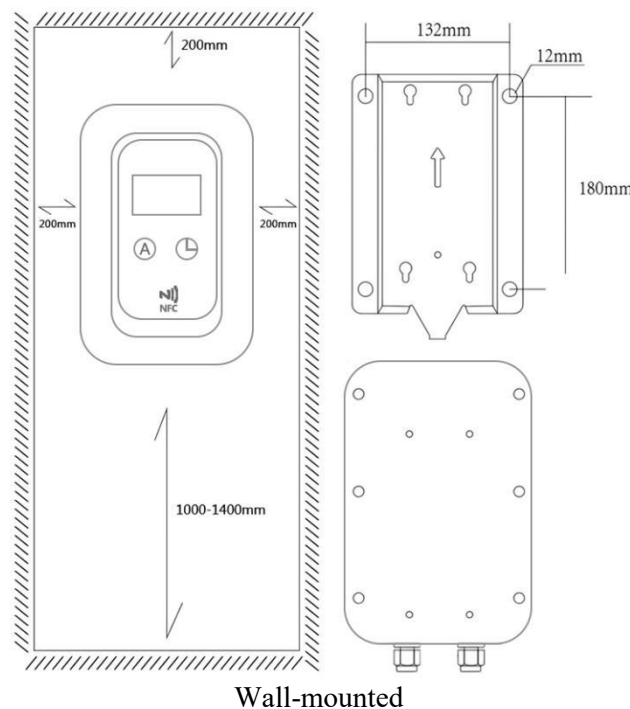
In order to ensure the long-term stable operation of the product, it is recommended to avoid installing charging stations in extreme weather as far as possible, especially low or high ambient temperature may affect the installation effect due to thermal expansion and cold contraction.

It is suggested that the charging station should be installed in a place with good ventilation, no direct sunlight and shelter from wind and rain. Please avoid to be installed around wet place, like pool, water tap, etc. If must, its clear distance must be more than 2 meters far from the wet place.

Installation steps

A. Confirm the installation position with users. For wall mounting, the charging station should be mounted vertically and leave enough space. The recommended minimum space requirements are shown below:

B. Mark the four mounting holes with a pencil, based on below hole's position or with the reference of wall mounting plate/post.



C. Drill four holes at the marked positions.

Use Ø 8 drill bit to drill 4 holes of 8mm bore diameter and 45mm depth. Hammer the M8*40mm plastic expansion bolt into the wall holes.

D. Fix the mounting plate/post and secure the charging station.

Use the screwdriver to fix the self-tapping screws to the mounting plate on the wall, then secure the charging station to the plate, and lock the charging station and mounting plate with a screw on bottom.

E. Install the hanging hook

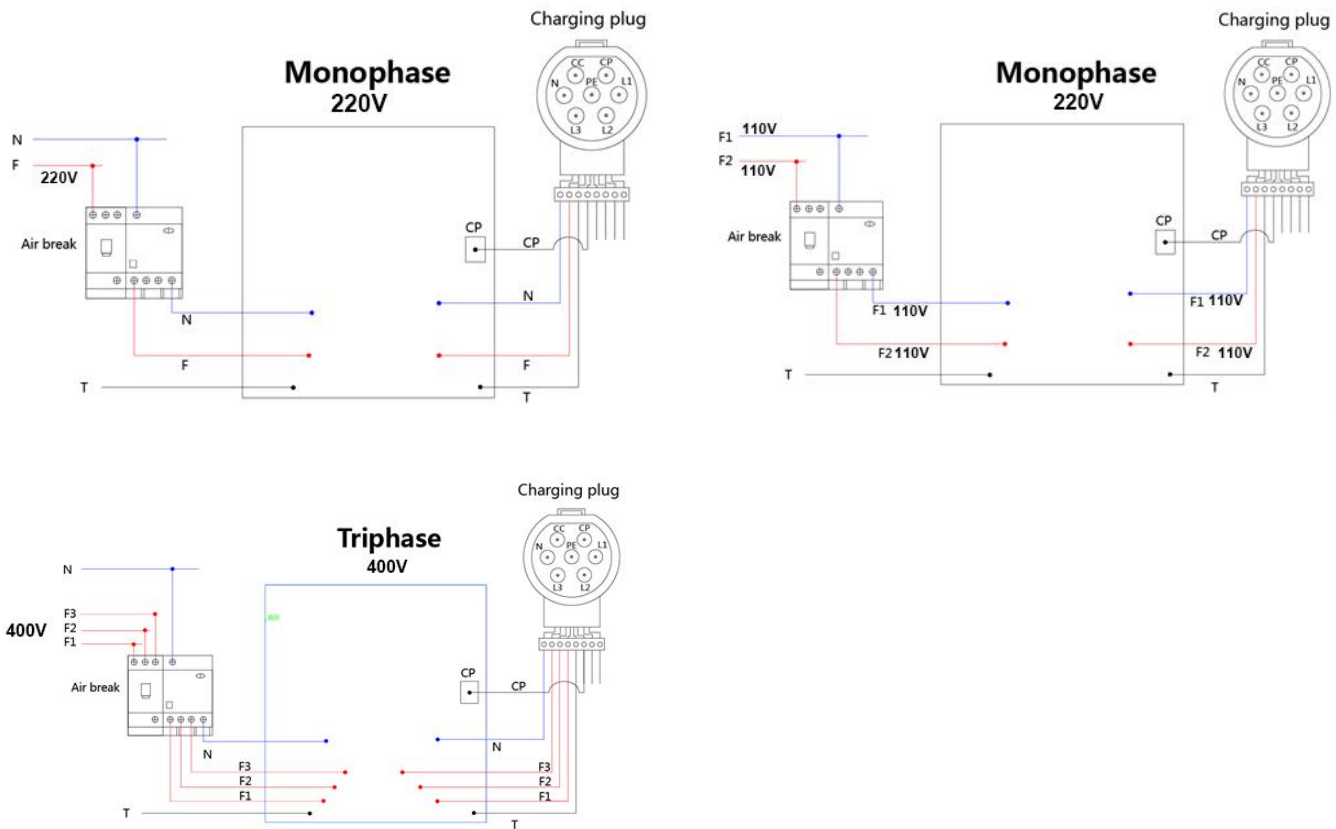
Place the hanging hook in an appropriate position and install it with the expansion screw which contain in package.

F. Connect the power supply cable (live wire, neutral wire and ground wire)
 G. respectively to the prepared wiring terminal or power distribution box. Make sure the charging station is reliably grounded to avoid electric shock.
 H. Check and confirm again there is no mistake connection. Next start to setting and charging Power cable connection

IMPORTANT!!!

Safety matters for wiring:

- *Must ensure power-off operation before wiring.
 - *The installer is well insulated and protected
 - *Prohibit wiring during raining and thunderstorms.
 - *No power on until the wiring is finished.
- Please refer to below picture to connect the wires.



5.Charging operation

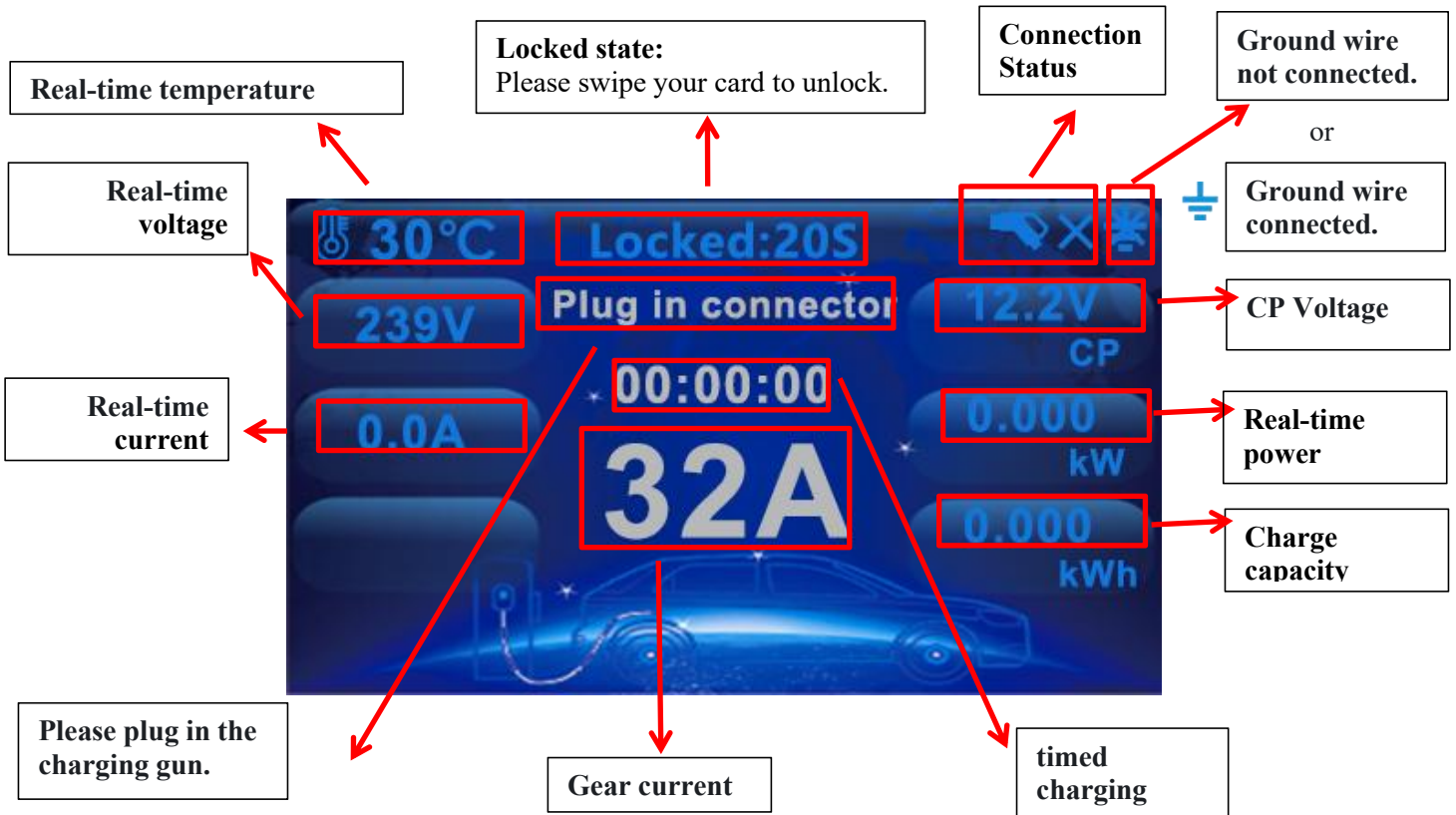
Step 1: Park the electric vehicle in the designated location, turn off the engine, and apply the brakes.

Step 2: Connect the plug on one side of the input cable to the power source.

A.If you purchased a model with a power rating of 3.5kW or less, you may have a Schuko plug  or a UK plug  , or a Nema plug  . Then you can plug it into an outlet .

B.If you purchased a model with a power rating of 7kW or more, you may have a CEE male plug , You can connect it with a CEE female plug , And connect the cable with the female plug to the circuit breaker.  or you have a bare input cable .Just connect the cable to the circuit breaker .

Step 3: At this point, you can check the charging status through the screen.



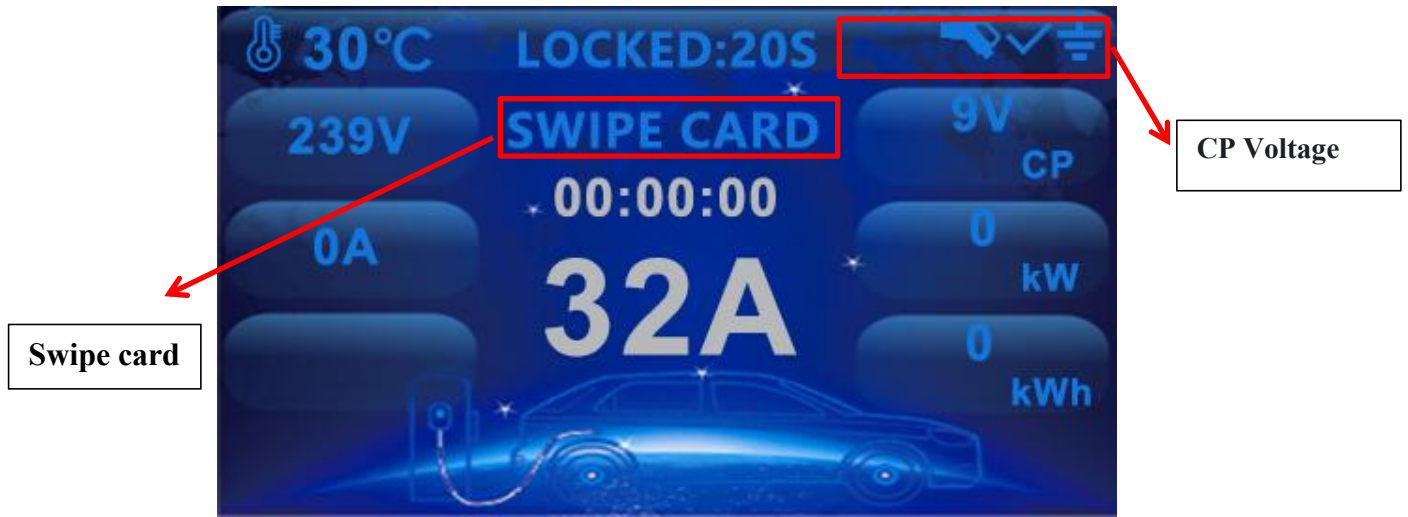
Step 4: Insert the charging connector into the electric vehicle's AC charging port (see the figure below).



Step 6: After the charging connector is connected successfully, the screen will display the icon . If the charging connector fails to connect, the screen will display the icon .

Step 7: Swipe card to charge

After plugging in the charging connector, the CP voltage is around 9V. At this point, the screen will display the prompt "Swipe Card". After swiping the card, there will be 20 seconds to adjust the current and set the timer. It will be locked after 20 seconds.



Step 8: Adjust the current and set the timer
 You can adjust the current or set the timer within these 20 seconds.

How to regulate current?

There are two ways to adjust the current, through the charger  button or through the APP.

Method 1: Adjust by pressing the  button

Click the  button to adjust the current value



Method 2: Use app to adjust 

For the adjustment method of APP, please refer to the usage details of APP.

How to use the timed charging function?

There are two ways to adjust the current, through the charger  button or through the APP.

Method 1: Adjust by pressing the  button

Click this button  to set the timer.

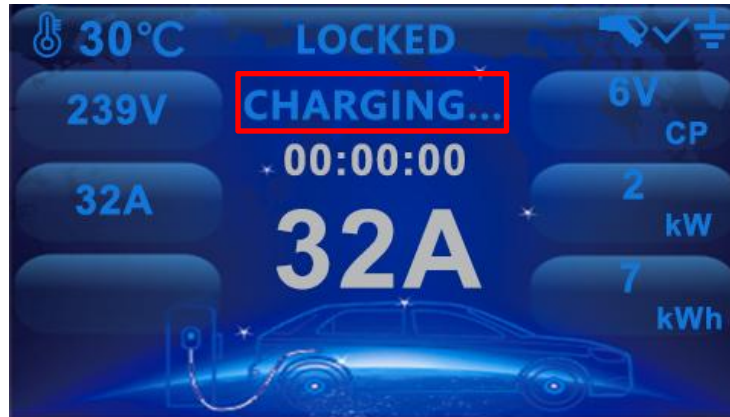


Method 2: Adjust through APP 

For the adjustment method of APP, please refer to the usage details of APP.

Step 9: Start charging

During charging, the charger will lock and display an icon . It will charge according to the values set in the previous step, with the CP voltage remaining at 6V. Meanwhile, real-time voltage, current, power, and other metrics will be displayed.

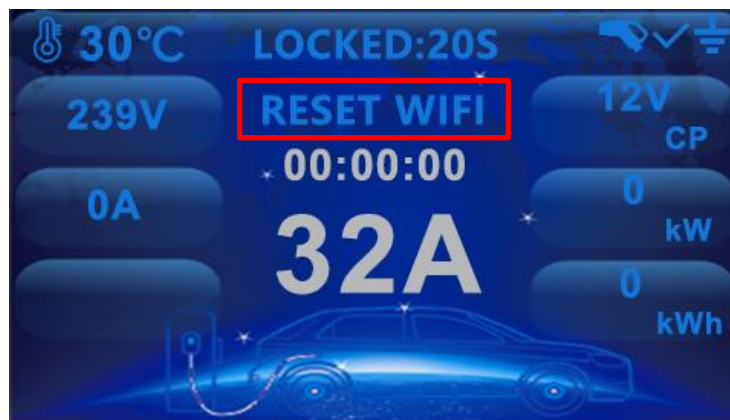


Others:

How to reset the WiFi?

Press and hold both the  button and the Timer button  for 3-5 seconds until "RESET WIFI" appears. At this point, you can open the APP to search for and connect to the device.

If there is no button mentioned above, you can press the emergency stop button  continuously three times until "RESET WIFI" appears.



How to reset the RFID card?

Hold down the  button and double - click the Timer button . At this point, the card menu will appear on the screen.

ID0:18774866	NULL
NULL	NULL
NULL	NULL
NULL	NULL
NULL	NULL
CLEAN	SAVE AND EXIT

If you want to add a card, swipe the card to add it; if you want to delete a card, press the  button.

If you want to save the card information, press the Timer button .

6. Emergency button

1. Location of the emergency button



2. Press the emergency button quickly when one of the following situations occur.

- Smoke or smell of burning
- Visible or audible electric sparks
- Hearing unusual noises
- Vibration found
- Other cases where it is deemed necessary to stop the charging station immediately.

When the emergency button is pressed, the device stops all charging actions and automatically enters the protection state. However, please do not press the emergency button for convenience to stop charging without emergency.

3. Once the emergency is solved, the emergency button can be press again to release and next to restart.

7. Fault handling

The charging station is automatically protected in the event of the fault. The fault information and handling methods are as follows

Display notice	Solution
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LCD are not on	1. Check whether the power supply and distribution are normal; 2. Check whether the branch breaker is tripped, and close the breaker after trouble shooting; 3. Check whether the connection is correct, if the cable comes off, should be properly connected to tighten the cable; 4. The main board problem; 5. LCD connection cable is loose or LCD is Damaged; 6. If the fault persists, contact the supplier.
Emergency stop	1. The E-stop button has been pressed; 2. After troubleshooting, press the button again to release; 3. If the fault persists, contact the supplier.
Leakage	1. Check whether the charging connector and its cable are damaged or wet; 2. Recover after pulling out the connector. If the fault persists, contact the supplier.
Over voltage	1. Check whether the input cable is connected correctly; 2. Check whether the input voltage is abnormal.
Under voltage	1. Check whether the input cable is reliably connected; 2. Check whether the input voltage is abnormal.
Over current	1. Check whether the charging connector is correctly connected; 2. Check whether the OBC is normal; 3. After the fault is rectified, power on the charging station again. If the fault persists, contact the supplier.
Over temperature	The product will automatically stop charging. Wait until the product cools down, then use the product again
UN-GND	Appears on the display . Switch off the product. Ensure the outlet is properly grounded. Contact qualified electrician if in doubt.
Others	Contact supplier for more information

8. Warranty and exclusion

The warranty period of the charger is 12 month.

If the charger is unusual within this period, it will replace a new one for free as long as it is clear that the problem is the failure of material or manufacturing process and the charger is not use abnormally.

(1) A valid proof of purchase must be presented when calling for warranty service.

(2) Warranty will not apply if products are modified or repaired in any way by persons other than our technicians,

■ The product has been damaged by misuse, neglect or the introduction of any liquid

■ The product is not used in accordance with the user manual

■ Loss or damage due to force majeure or natural disasters

(3) Product specifications, warranty terms and conditions are subject to change without notice

(4)No responsibility for technical or editorial errors or omissions contained herein

CAUTIONS

(1)Read all the instructions before using this product.

(2)This device should be supervised when used around children.

(3)Do not put fingers into the electric vehicle connector.

(4)Do not use this product if the flexible power cord or EV cable or the shell or the EV connector is frayed or broken, or any other signs of damage.

(5)To avoid a risk of fire or electric shock, do not use this unit with an extension cord.

(6)Do not disconnect under load.

- (7) Do not expose to liquid, vapor or rain.
- (8) Do not remove the cover or attempt to open the shell.
- (9) Do not put this product in running water. Remove the plug for cleaning and do not immerse the electrical part of the product in water or other liquid. Don't use corrosive detergents, wire brushes, abrasive scourers, metal or sharp utensils to clean the product.
- (10) Do not store the product in hot place exposed to direct sunlight.

Labelling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Control via the app

1. Download

- If your business is targeted at global markets, you can use this QR code to download the app:

Download the QR code of the Tuya app



- If your business is targeted at markets inside mainland China, you can use this QR code to download the app:

Download the QR code of the Tuya app



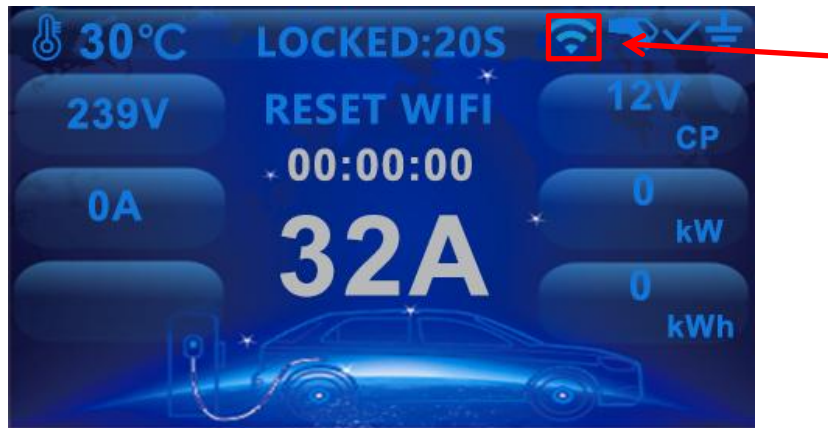
- If your business is targeted at markets outside mainland China, you can use this QR code to download the app:

Download the QR code of the Tuya app



1. Pre - connection Preparations for the APP

- Press and hold the  button and the  button simultaneously for 3 seconds until the  icon appears on the screen.



2. Preparation of the network environment

Before using the App, please ensure that your phone is connected to the network and that both your phone and the device are in the same network environment.

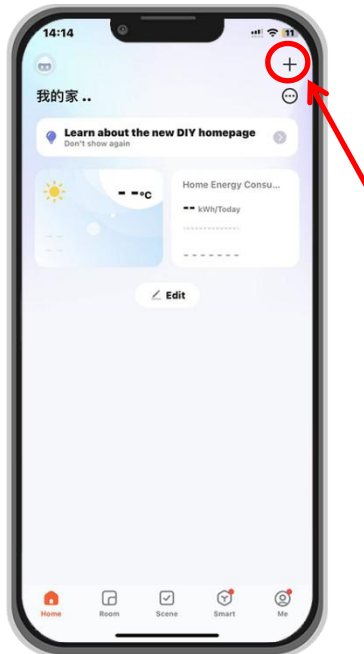
There are two ways to do this:

1. Connect both your phone and the device to the same Wi-Fi.
2. Turn on your phone's personal hotspot and connect the device to it.

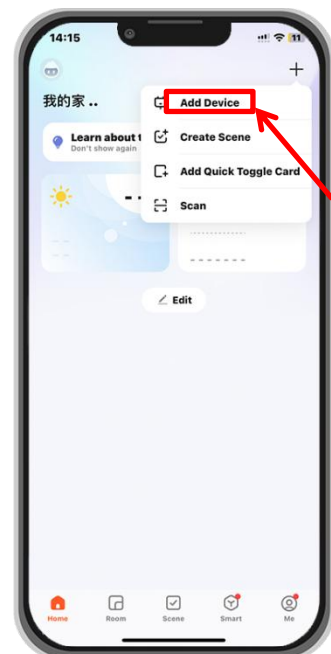
The following are the corresponding steps.



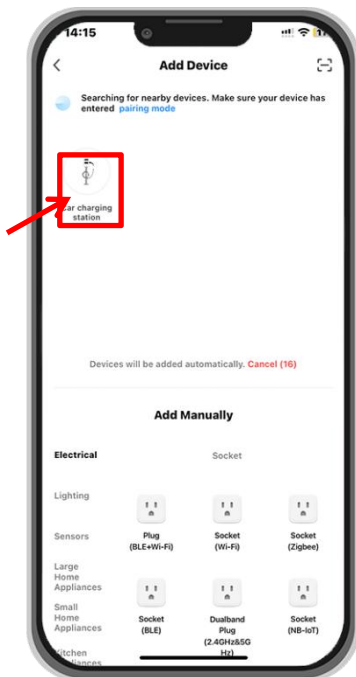
1. Open the Tuya App



2. Click the “+” icon



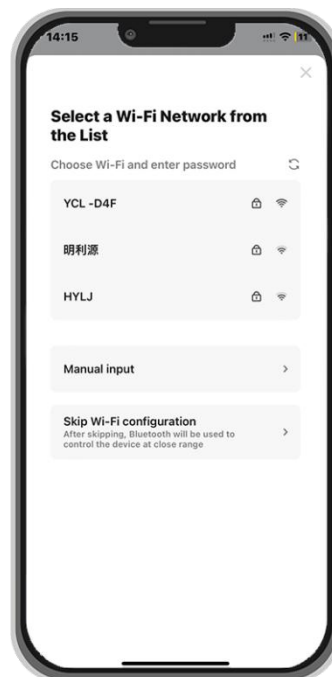
3. Click “add device”



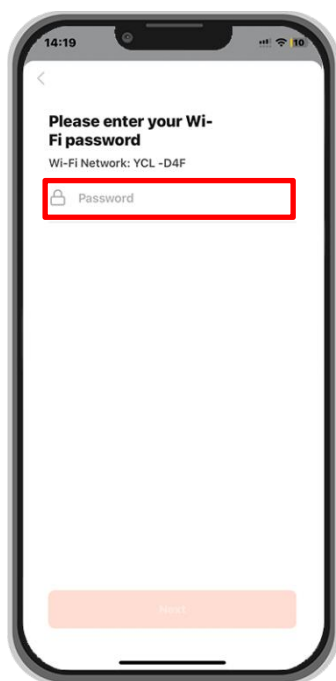
4. Select the device



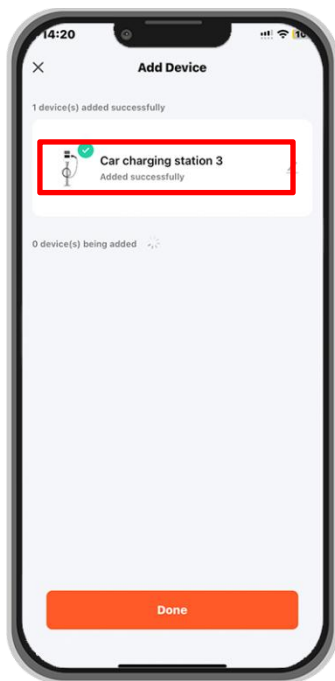
5. Click the "Add"



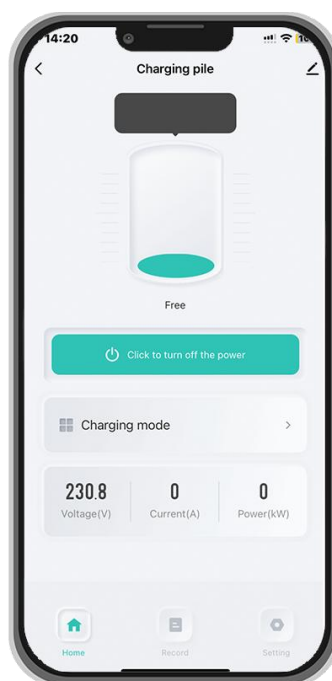
6. Select the same Wi-Fi as your phone.



7. Enter the password.



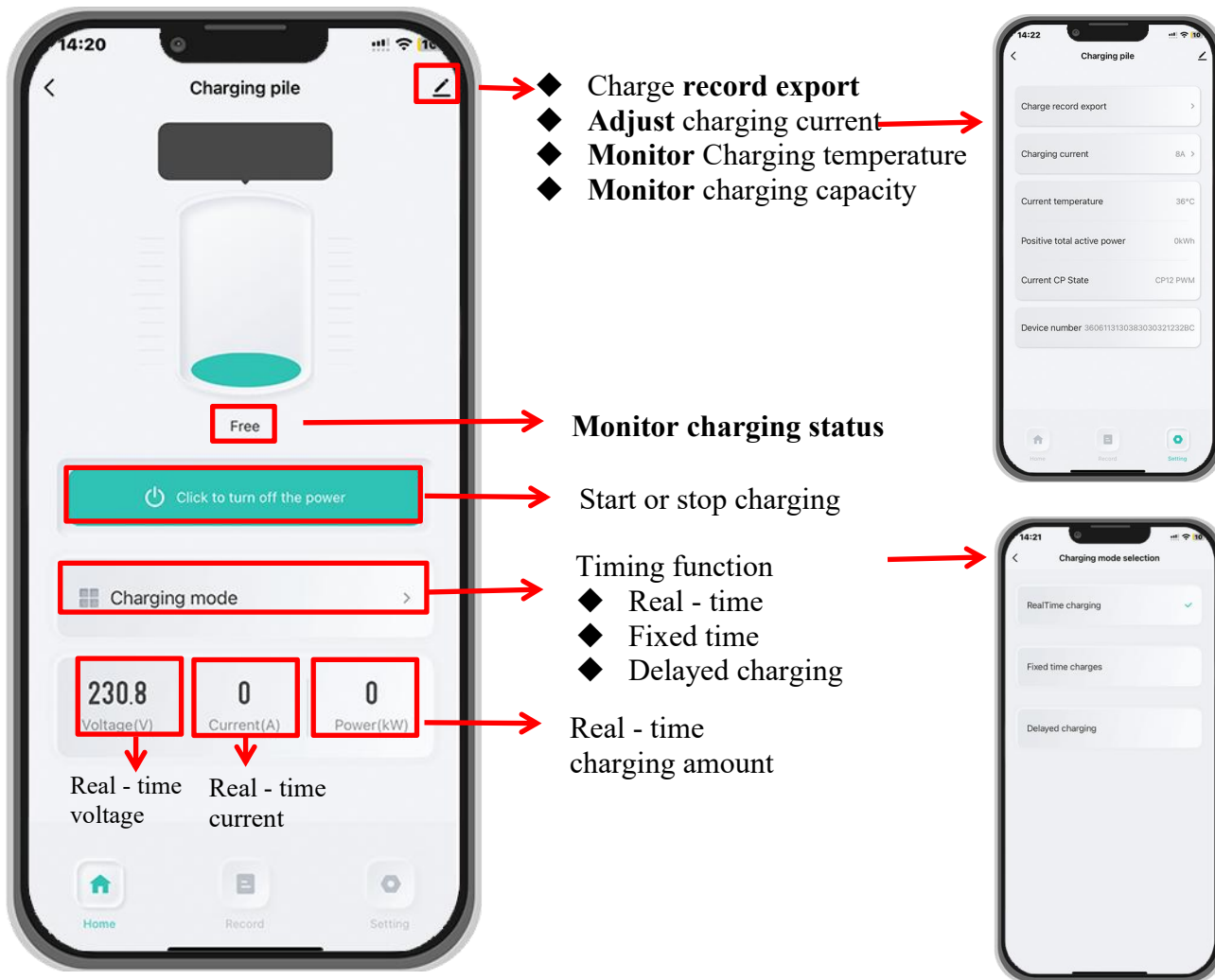
8. Click the "Done"



9. Charging main - page

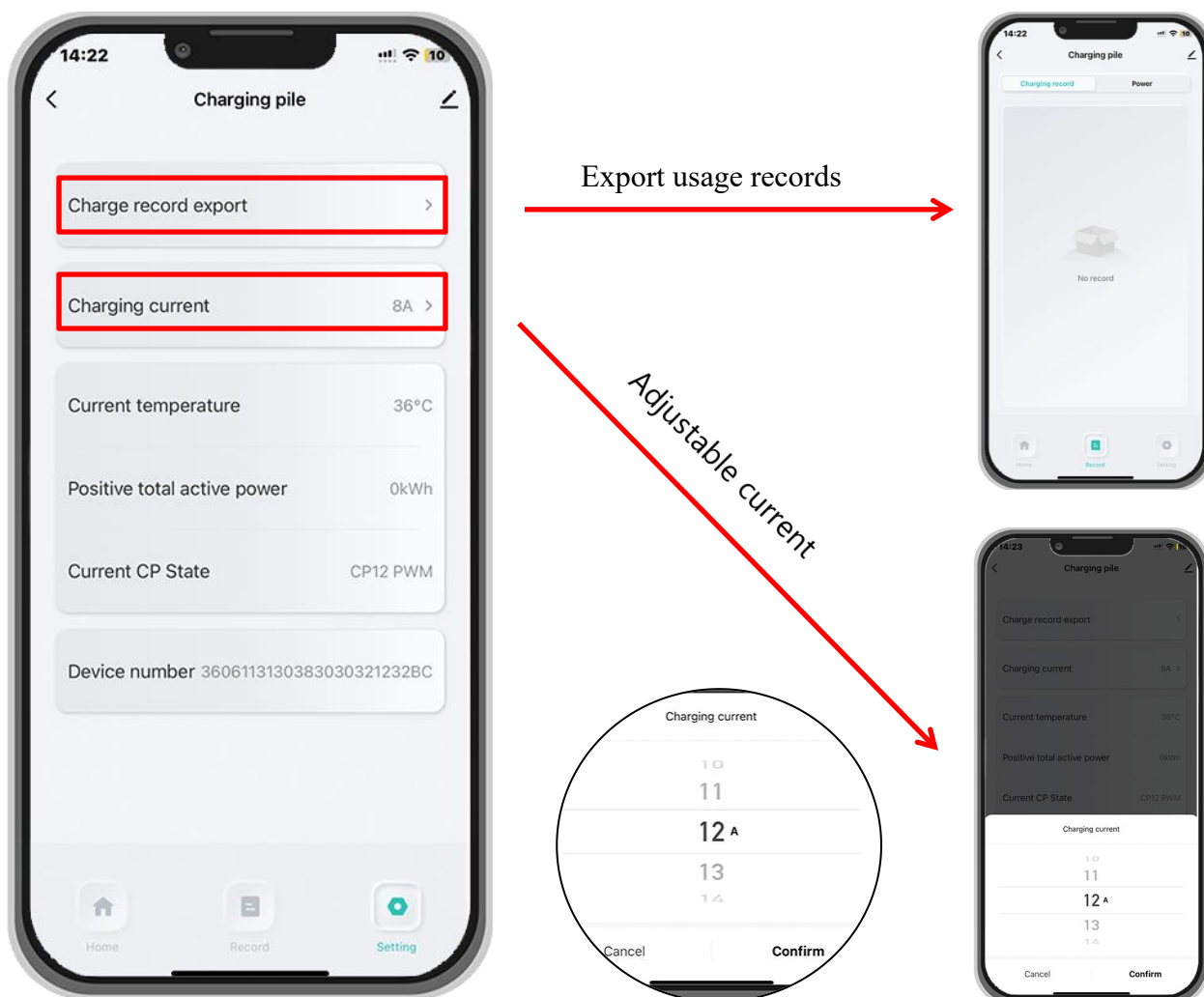
3. Monitor charging status

Once the connection is successful, you will enter the charging main page, where you can fully monitor the charging process. The page will display key real - time data such as the charging amount and real - time voltage, allowing you to clearly keep track of the charging progress and device status. At the same time, you can also conveniently start or stop charging through the corresponding buttons on the APP, enabling you to easily take control of the entire charging process.



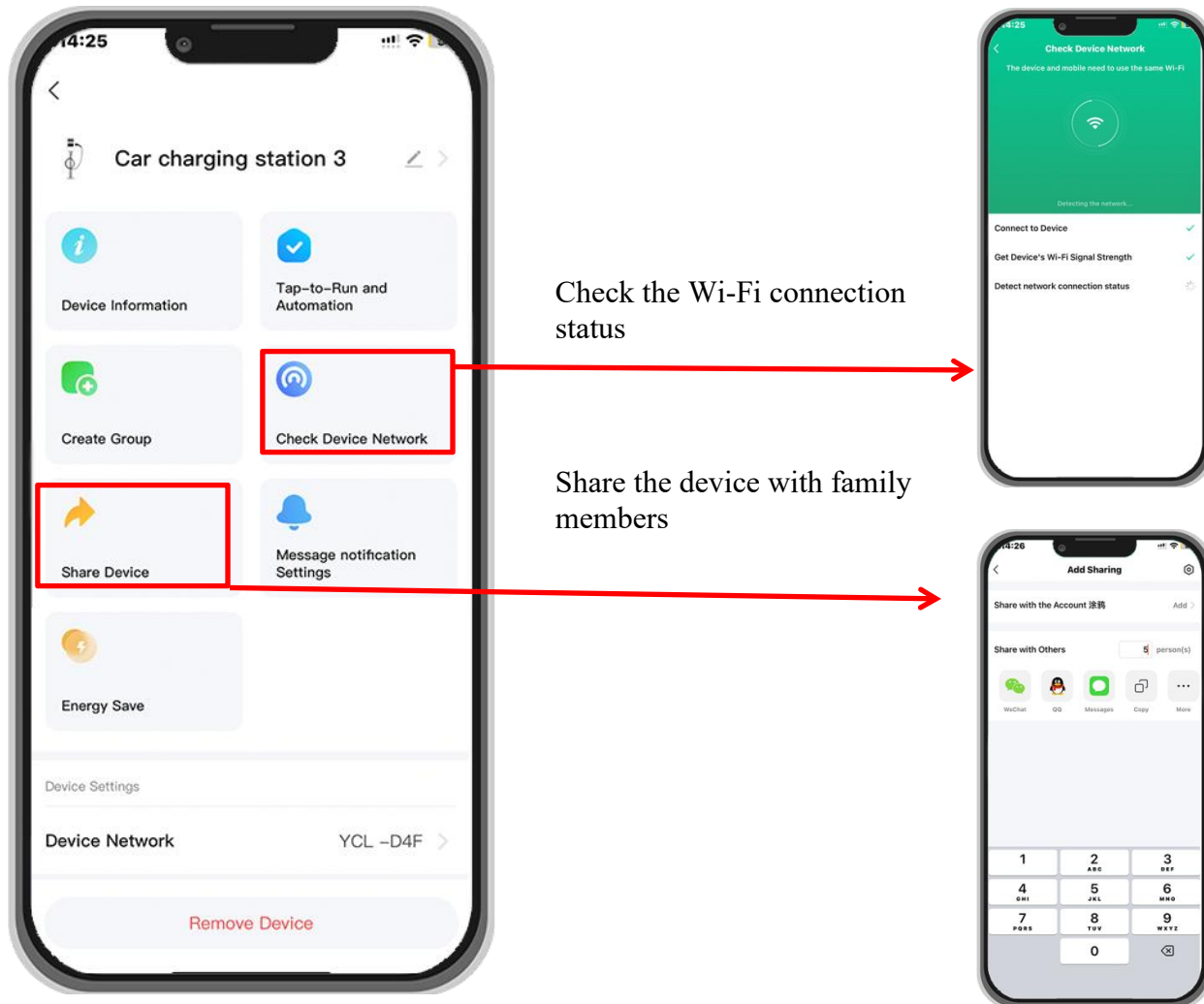
4. Adjust the current / output power

During the charging process, you can conveniently and flexibly adjust the output power via the APP to meet charging needs in different scenarios. The specific operation instructions are as follows: After entering the page following the above - mentioned process, find the option labeled "Current Adjustment" (usually presented in the form of a slider or numerical adjustment buttons). Once you click to enter the adjustment interface, you can slide the current adjustment slider up or down according to your actual needs. During the adjustment, the page will display the currently set power parameters in real - time, ensuring that you can clearly keep track of the adjustment status. After completing the current setting, click the "Confirm" button at the bottom of the interface, and the system will respond and execute the power adjustment command. After the adjustment takes effect, the charging main page will synchronously update the output power information, allowing you to intuitively check the actual power value after the adjustment. With this function, you can flexibly control the charging speed according to factors such as the power supply environment and equipment requirements, achieving an efficient and safe charging experience. You can also view or export your charging records over a period of time and check the amount of electricity you have consumed.



5. Other functions

You can also access the following functions through the APP: create groups to share charging status, check Wi-Fi connection status, and share the device with family or friends, who can connect to the device without entering a password.



The above introduction is a brief overview of the frequently used functions, and there are many other functions that have not been elaborated in detail. We will continuously update and provide you with solutions to the issues you care about. Thank you for choosing our company's EV charger. We will provide you with dedicated service. Wish you a pleasant life.