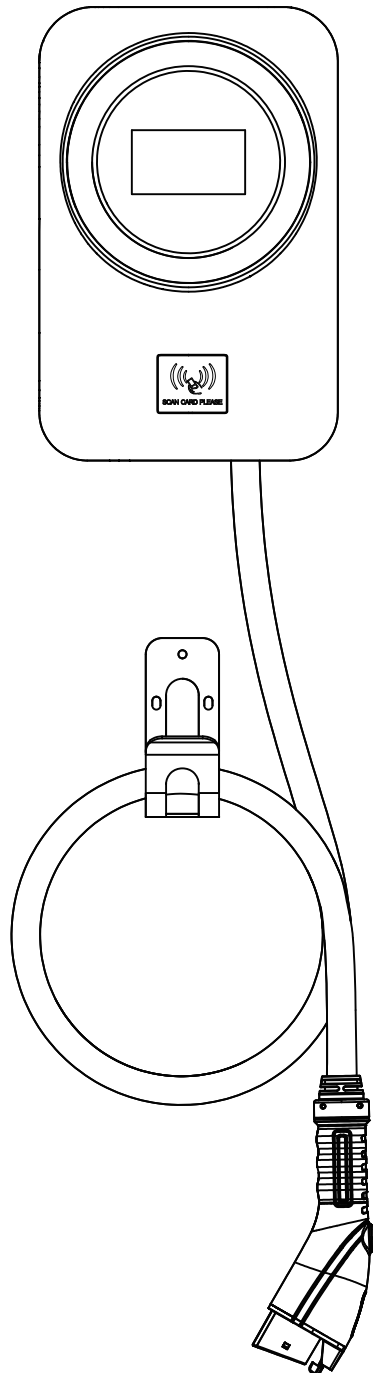


EV AC Charger Instruction Manual

HBE-AC48A01HW-U-BHSED



Catalogue

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Safety Precautions

1. Do not bring dangerous items such as inflammable, explosive, or combustible materials, chemicals, and combustible steam near charging piles.
2. Keep the head of the charging gun clean and dry. If there is any dirt, please wipe it with a clean dry cloth. Do not touch the charging plug core with your hand when it is electrified.
3. Do not use charging piles in case of charging plug or charging cables are broken, cracked, exposed etc. If anything above is found, please contact the staff in time.
4. Do not disassemble, repair and modify charging piles without permission. If there is any need for maintenance and modification, please contact the staff. Improper operation may cause equipment damage and leakage phenomenon.
5. If there is any abnormal situation during usage, please immediately press the emergency button and cut off the power supply.
6. During the charging process, the vehicle is not allowed to drive and can only be charged when it is stationary. Please turn off the engine before charging the hybrid electric car.
7. In case of rain and thunder, please charge carefully.
8. Children should not approach and use charging piles during charging to avoid injury.
9. Please close the doors on both sides during charging to avoid electric shock.
10. During the charging process, the charging connector should not be pulled out forcibly, which may cause fire at the connector and result in a safety accident.

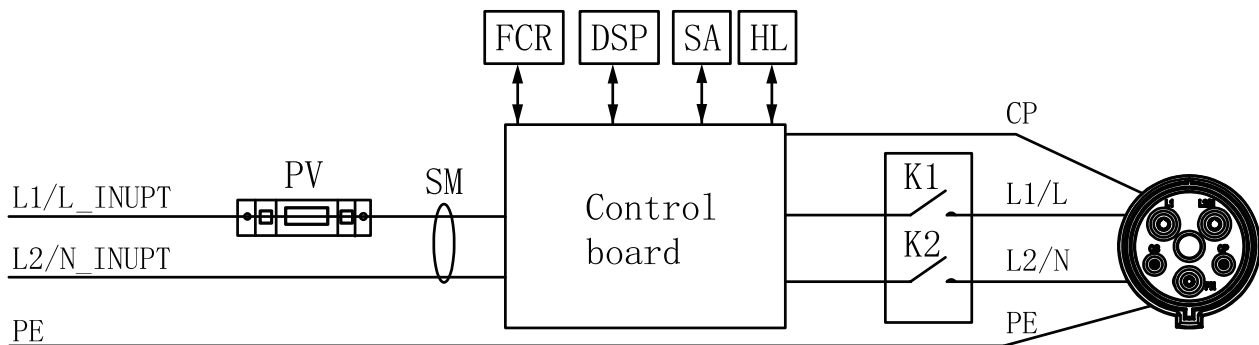
1. Brief account

It is a wall-mounted AC charger, which is mainly used for AC slow charging of electric vehicles. It integrates charging control, human-computer interaction control, communication, billing and metering functions. With protection level up to 4X, it can work safely indoors (If installed outdoors, chargers should be equipped with an awning, if not, please do not charge cars when it rains). It meet tha charging needs of electric vehicles with different capacities.

2. Equipment parameters

Specifications	Values
Maximum power of the product	11.5KW
Input Voltage	120-250VAC
Input Frequency	50/60Hz
Output voltage	120-250VAC
Single Maximum Output Current	48A
Charge Mode	Optional: ☐ Offline swipe card ☐ Operation online scan code ☐ Operation online swipe card ☐ Plug and play ☐ Credit card terminal ☐ Password charge
Communication Mode	Optional: ☐ Ethernet ☐ WIFI ☐ 4G
Display screen	4.3-inch touch screen
Operating Temperature	-30~55°C
Relative Humidity	≤95%
Protection Level	TYPE 4
Safety Design	The protection of leakage, over-voltage protection, over current, under-voltage protection, emergency stop protection, full stop charging protection, short circuit protection, Overtemperature protection
Installation Mode	Wall-mounted mode
Interfaces Count	One cable with(Optional: ☐ 5 m ☐ 7 m ☐ 7.5 m)
Size	14.96"x9.84"x5.14" (380x250x130.5 mm)
Operating Environment	Outdoor , Indoor
Operating Occasion	Residential charging

3. Schematic diagram



4. Shape Model Diagram

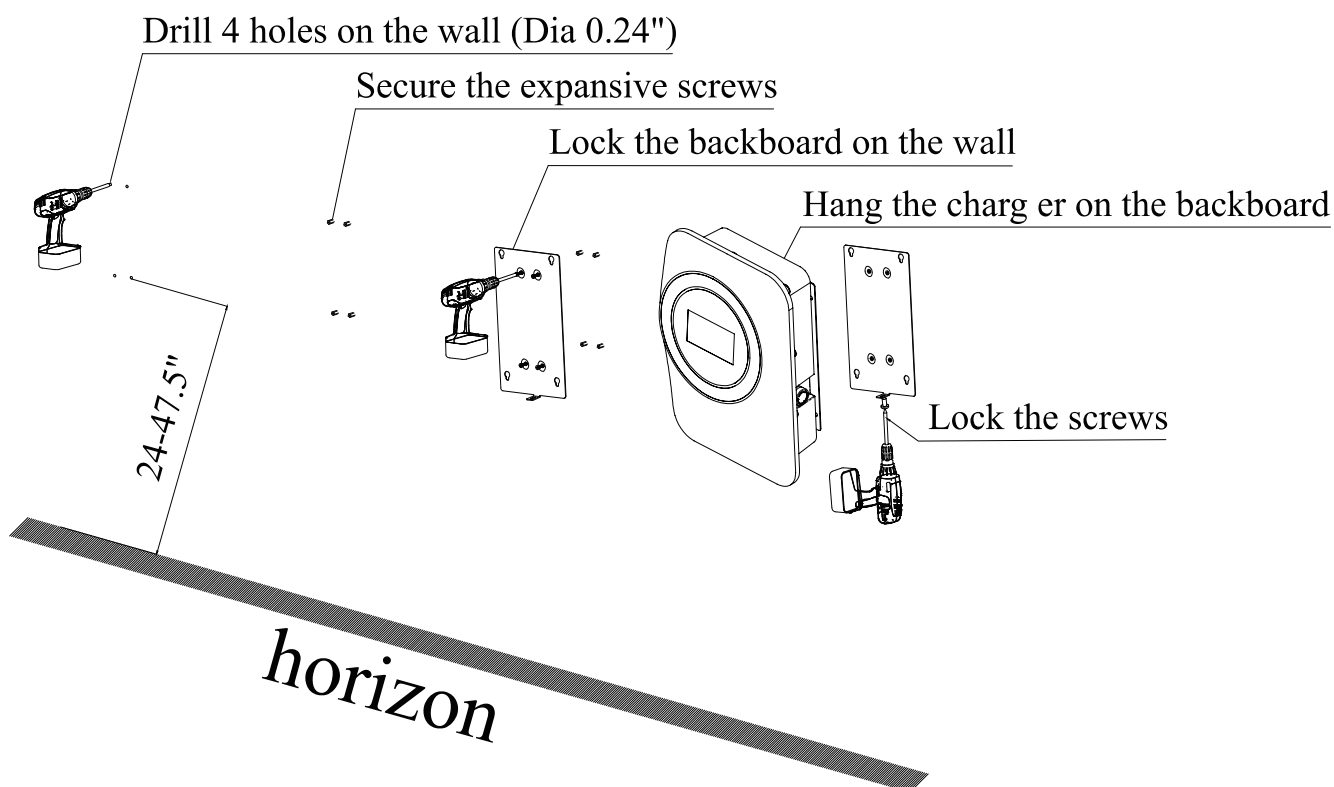


5. Product installation

5.1 Tools and Materials Required

Type	Description
Stanley screwdriver	No. 2 and 3
Stanley brand adjustable wrench	Pieces 0.25"(6.3mm) metric machine set STMT82672-23
Socket screwdriver	No. 8, 10, 17 and 19
Electrical tape	Black / 0.6" (15mm) Width
Electric drill	One manual electric drill (Diameter 0.24"(6 mm)) (Wall-mounted 0.55"(14 mm) Column installation)
Wire nipper	One
Needle nose pliers	One

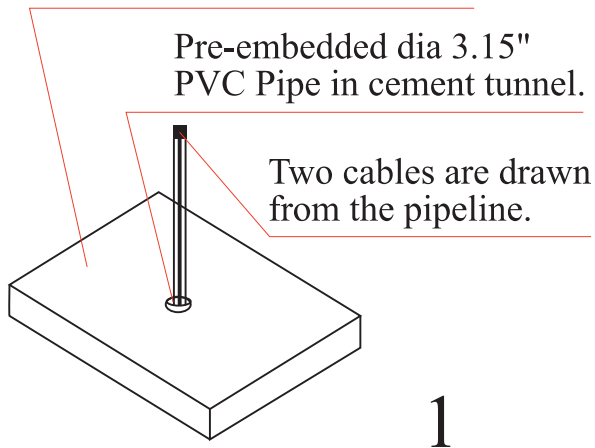
5.2 Basic Requirements for hanging plate:



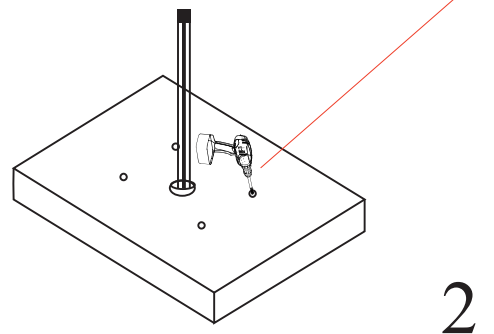
5.3 Column Installation Requirements:

Picture: Height, width, foundation installation diagram

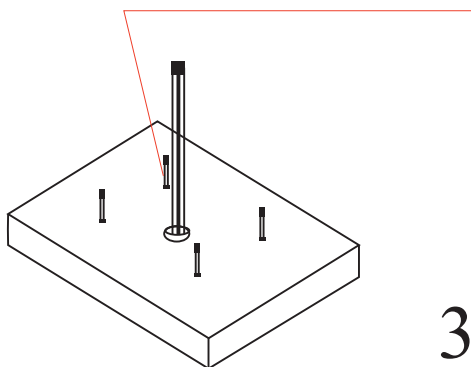
Build a cement pier on the ground(15.74"*11.82"*7.87").



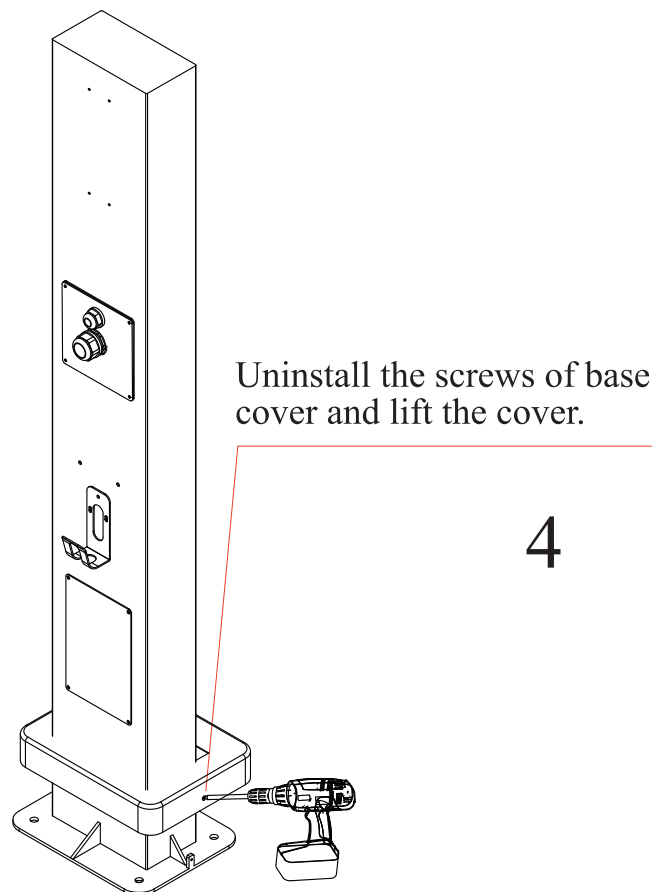
Drill 4 holes in the cement pier(4-dia0.473") Drill a hole that is 4.73" deep.



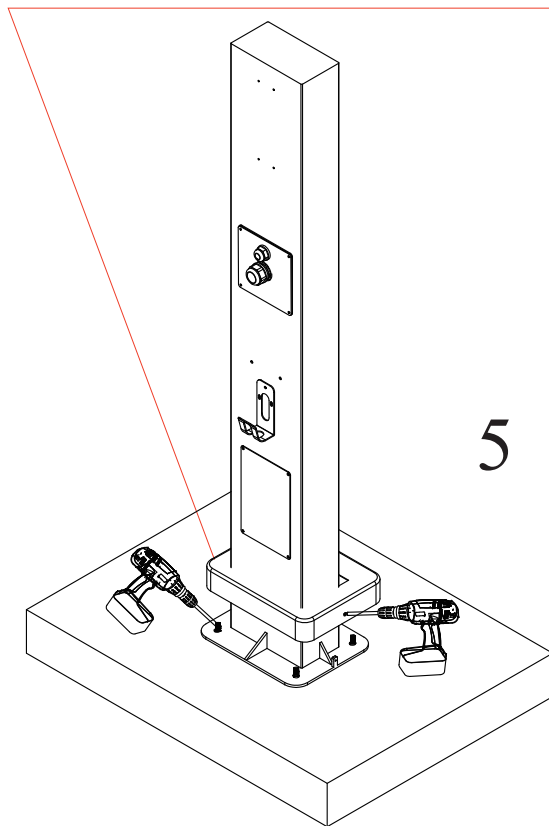
Drive the expansion screw into the cement pier.



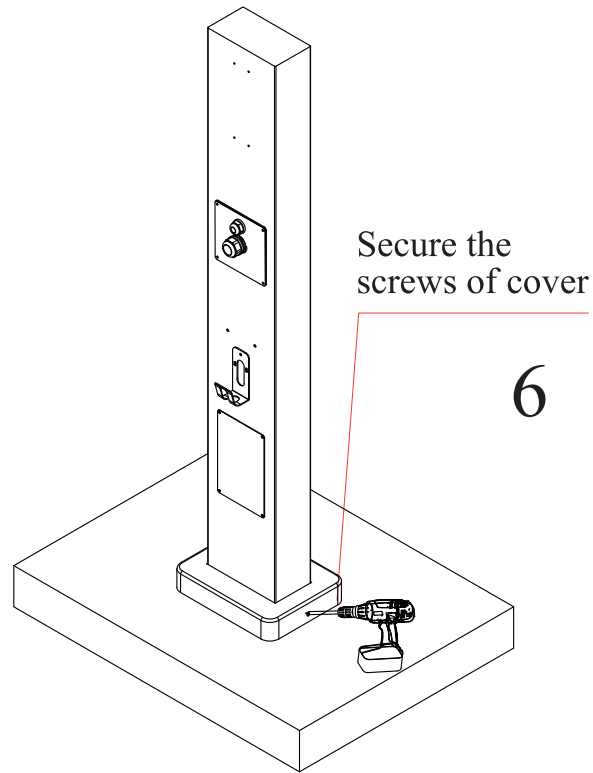
Uninstall the screws of base cover and lift the cover.



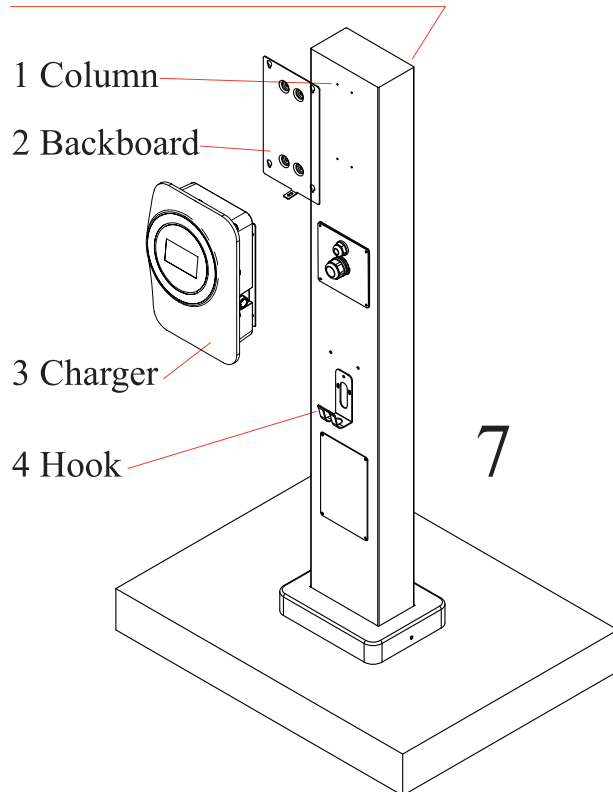
Aligned the screws of pedestal with the ones in cement pier and tight them.



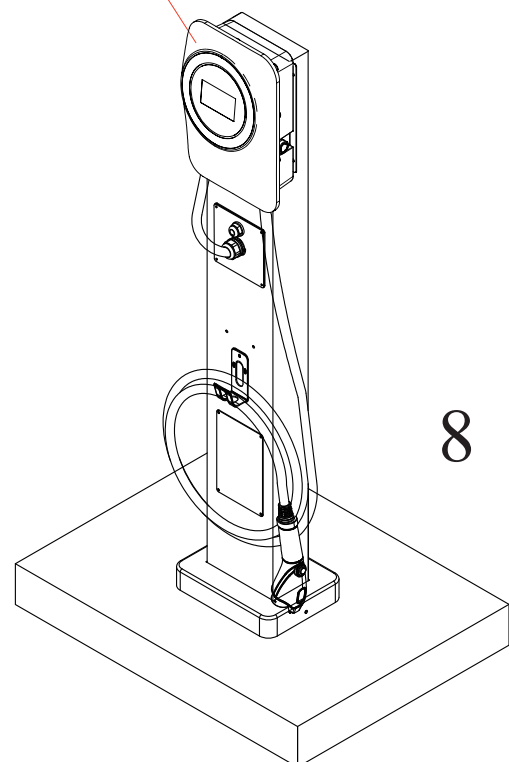
Secure the screws of cover



Assemble the backboard and charger pile in sequence



Accomplish



5.4 Recommended Tools for Installation:

Cable: 3*8AWG(8.37mm²)

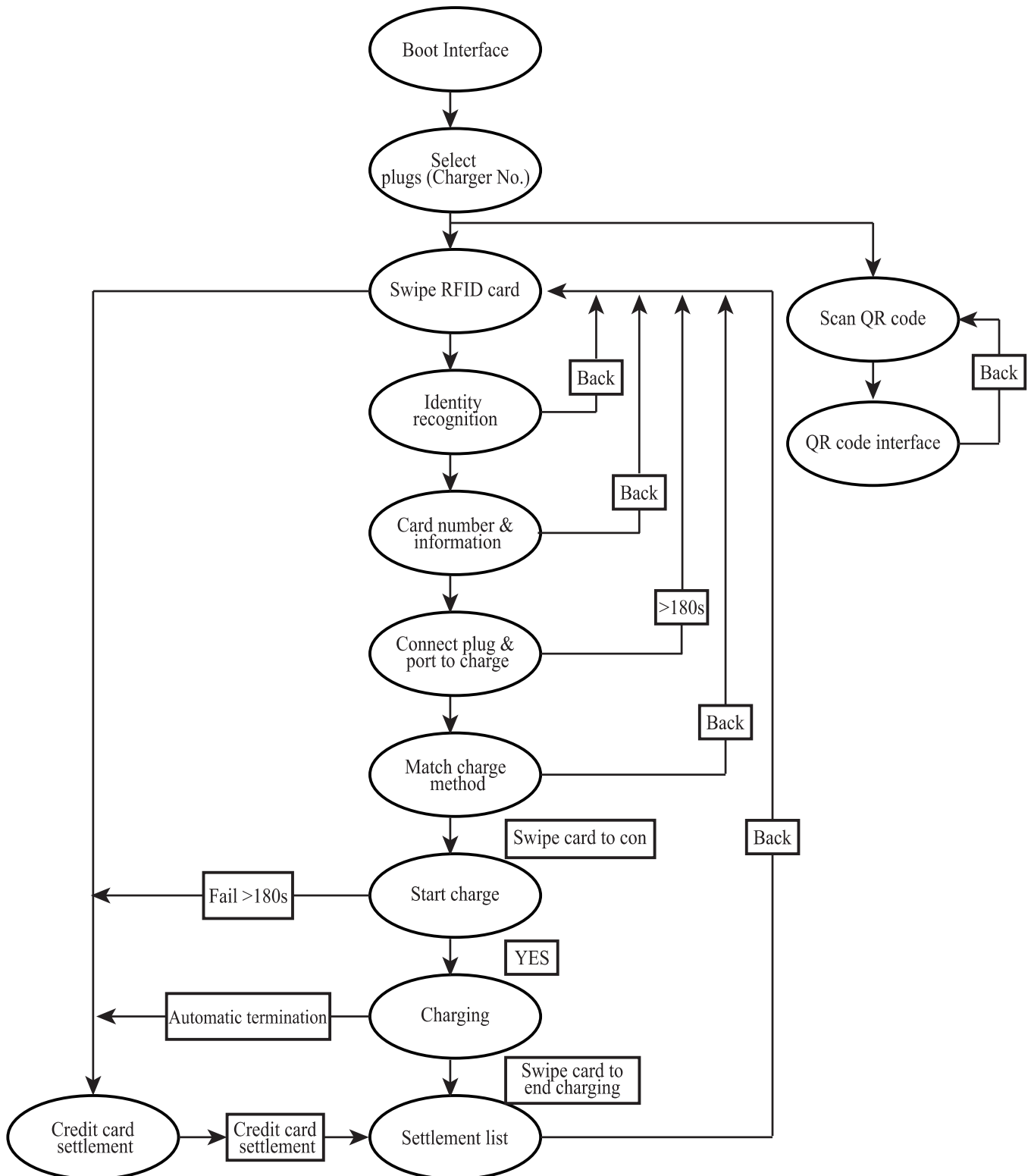
Power distribution: 2P 63A

5.5 Device Commissioning:

- a. Check the device before power-on
- b. Check the power-on voltage of the device
- c. Pre-charge test

6. Charging operation

6.1 Charging operation flowchart



6.2 Charging Mode Startup operation interface

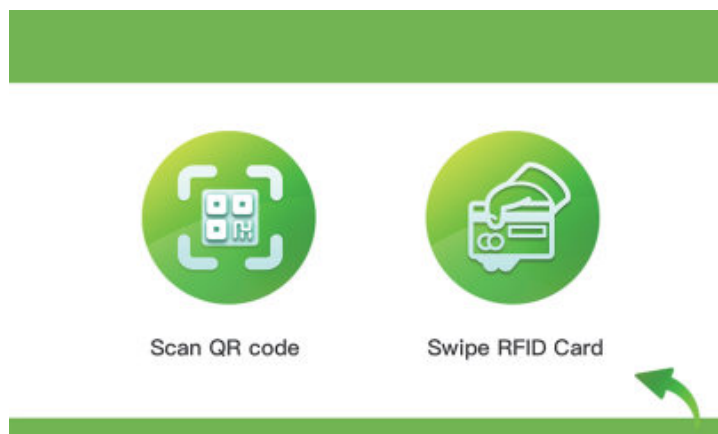
This series of charging machine has two charging startup modes: swiping card (online card swiping/ offline card swiping) and scanning QR code. Specific operation examples are as follows:

a. Charging by swiping card(online card swiping/ offline card swiping)

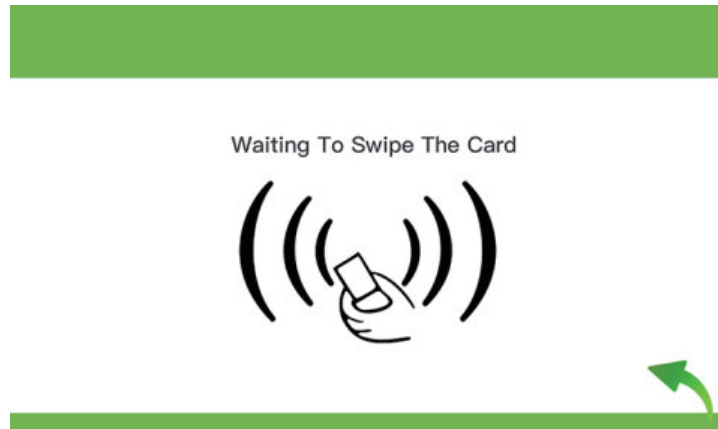
1. Click on the middle position of the screen to enter the charging method selection interface.



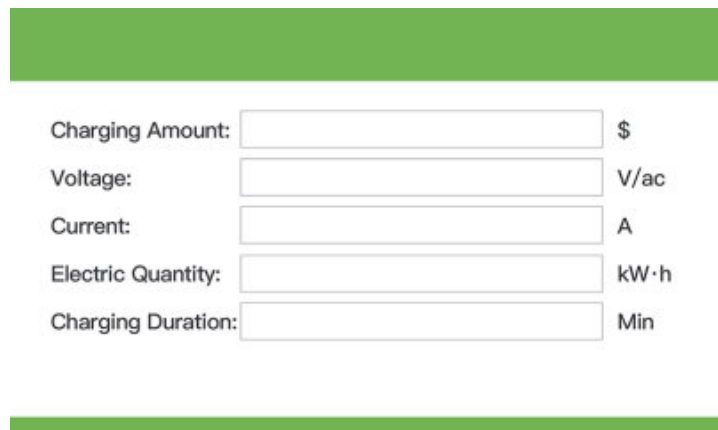
2. Click on the card reading charging method and select the card swiping charging mode.



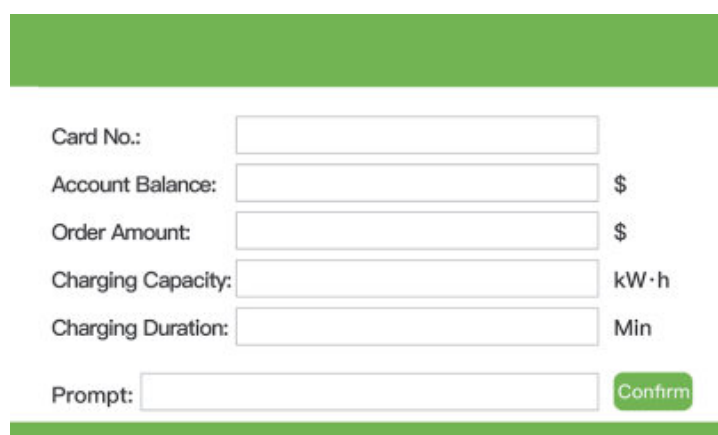
3. Enter the waiting card swiping to start charging interface.



4. Swipe card successfully and enter the charging interface.

The image shows a user interface for entering charging parameters. At the top is a solid green horizontal bar. Below it, there are five rows of input fields. Each row consists of a label, a text input box, and a unit. The labels and units are: "Charging Amount:" with "\$", "Voltage:" with "V/ac", "Current:" with "A", "Electric Quantity:" with "kW·h", and "Charging Duration:" with "Min". At the bottom of the interface is a solid green horizontal bar.

5. Swipe the card again to stop charging and enter the settlement interface.

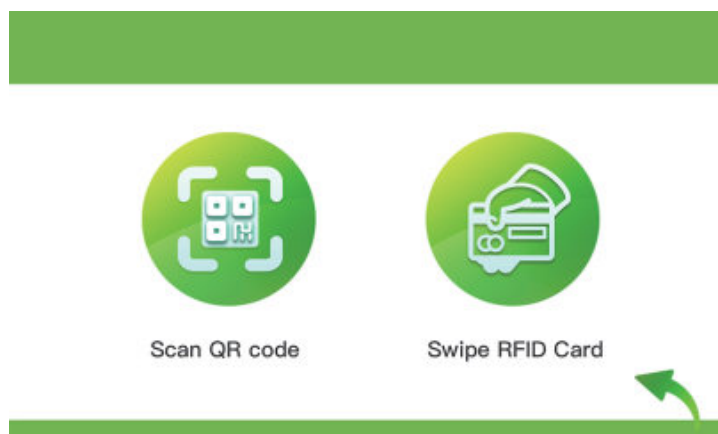
The image shows a user interface for settlement. At the top is a solid green horizontal bar. Below it, there are five rows of input fields. Each row consists of a label, a text input box, and a unit. The labels and units are: "Card No.:", "Account Balance:" with "\$", "Order Amount:" with "\$", "Charging Capacity:" with "kW·h", and "Charging Duration:" with "Min". Below these is a row with the label "Prompt:" followed by a text input box and a green button labeled "Confirm". At the bottom of the interface is a solid green horizontal bar.

b. Scan QR code for charging mode (Scan the QR code on the pile directly with APP).

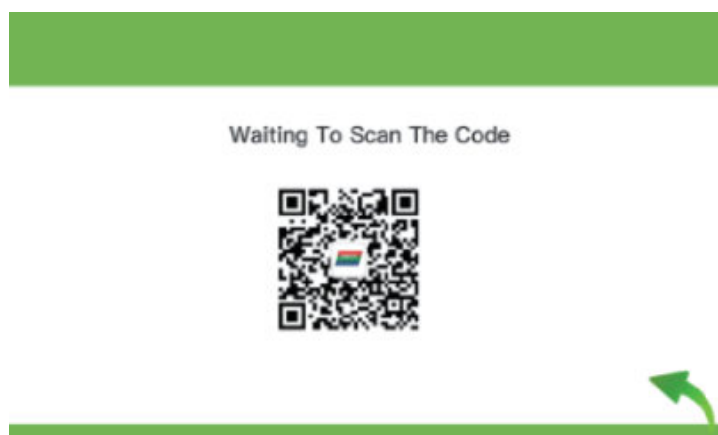
1. Click on the middle position of the screen to enter the charging method selection interface.



2. Click on scan QR code.



3. wait for the user to start using the APP scan code.

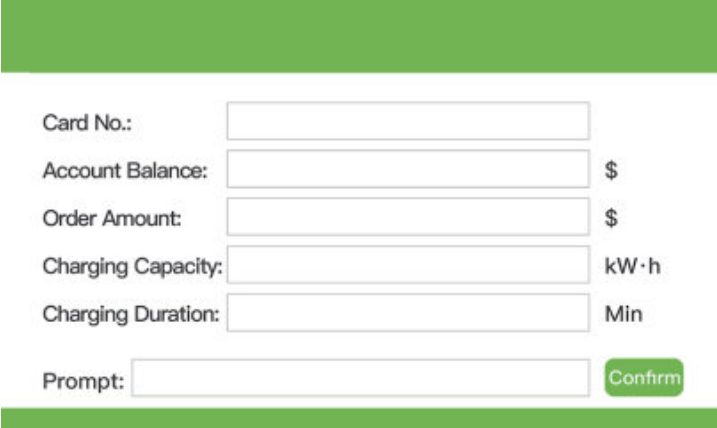


4. The APP successfully scanned the code and entered the charging interface.



A screenshot of a mobile application interface for electric vehicle charging. It features a green header bar at the top. Below the header, there are five input fields, each with a label to its left and a unit to its right. The fields are: 'Charging Amount' with a '\$' unit, 'Voltage' with a 'V/ac' unit, 'Current' with an 'A' unit, 'Electric Quantity' with a 'kW·h' unit, and 'Charging Duration' with a 'Min' unit. Each input field is a simple white rectangle with a thin border. At the bottom of the form area, there is a solid green horizontal bar.

5. Users use the app to remotely stop charging and enter the settlement interface.



A screenshot of a mobile application interface for settling a charging session. It features a green header bar at the top. Below the header, there are five input fields and one prompt field, each with a label to its left and a unit to its right. The fields are: 'Card No.' (no unit), 'Account Balance' with a '\$' unit, 'Order Amount' with a '\$' unit, 'Charging Capacity' with a 'kW·h' unit, and 'Charging Duration' with a 'Min' unit. The 'Prompt' field is followed by a green button labeled 'Confirm'. Each input field is a simple white rectangle with a thin border. At the bottom of the form area, there is a solid green horizontal bar.

c. Password charging method.

1. Click on the middle position of the screen to enter the charging method selection interface.



2. After the password accounting configuration is complete, the user enters the password on the page.



Password:

3. The user password has been successfully entered and enters the charging interface.



Charging Amount: \$

Voltage: V/ac

Current: A

Electric Quantity: kW·h

Charging Duration: Min

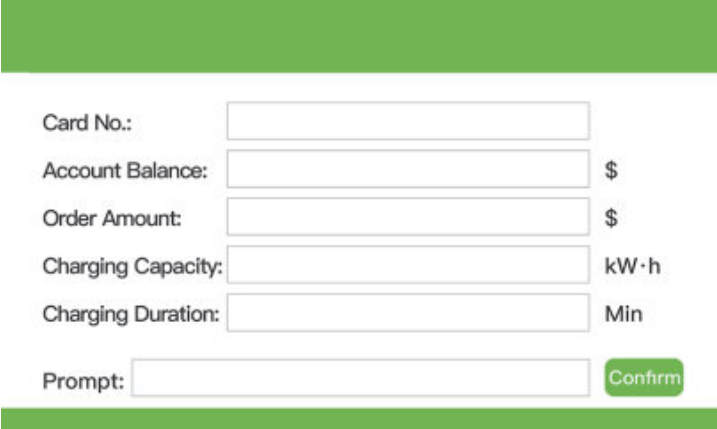


4. When the user is charging with a password, click on the screen and the password box will pop up. Enter the user password to enter the settlement interface.



Password:

5. If the user password is entered correctly, the charging is completed.



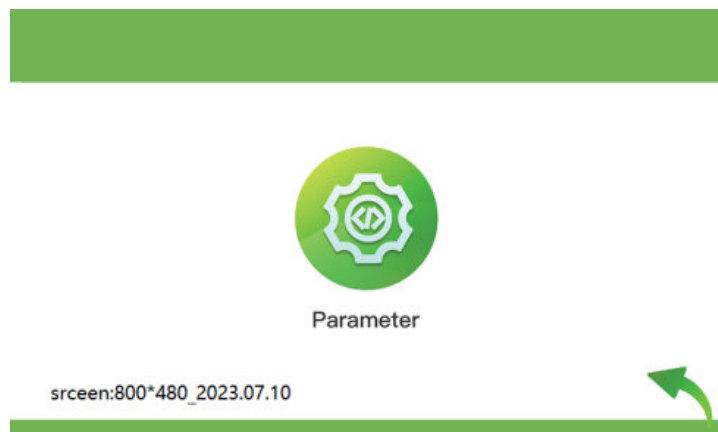
A screenshot of a user interface for electric vehicle charging. It features a green header bar at the top. Below it, there are several input fields with labels: 'Card No.', 'Account Balance:', 'Order Amount:', 'Charging Capacity:', 'Charging Duration:', and 'Prompt:'. Each field has a corresponding input box. To the right of the 'Account Balance:', 'Order Amount:', and 'Charging Capacity:' fields, there are currency symbols: '\$', '\$', and 'kW·h' respectively. To the right of the 'Charging Duration:' field, there is a unit 'Min'. At the bottom right, there is a green button labeled 'Confirm'. The interface is framed by green bars at the top and bottom.

6.3 Process for Setting Parameters

1. Click the lower left corner of the screen continuously to jump to the password input interface.



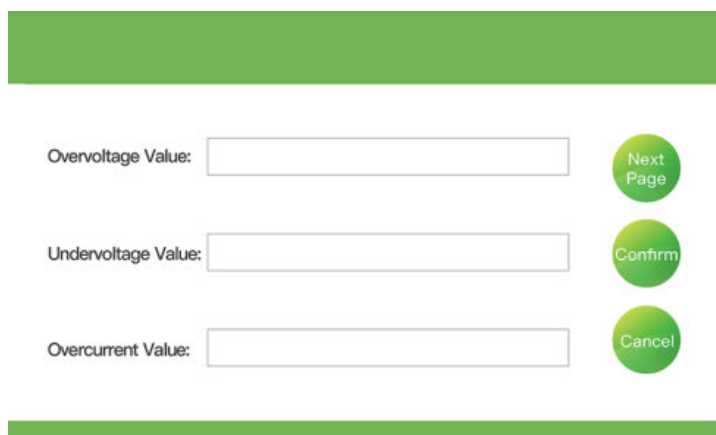
2. Enter the device parameter interface.



3. Enter a 3-digit password ***.



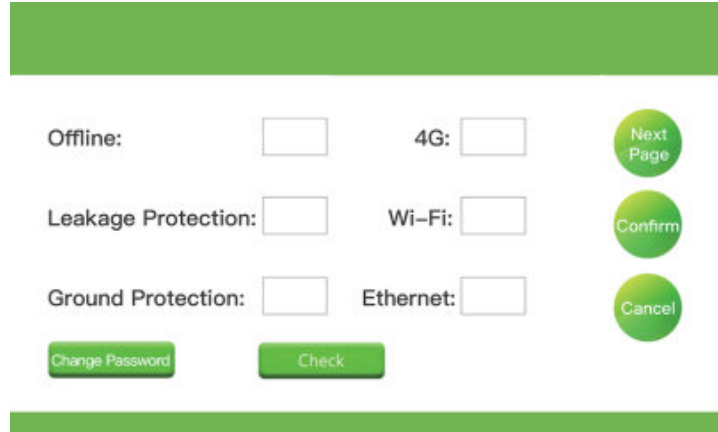
4. Input parameters for overvoltage protection, undervoltage protection, overcurrent protection, etc. of the device.



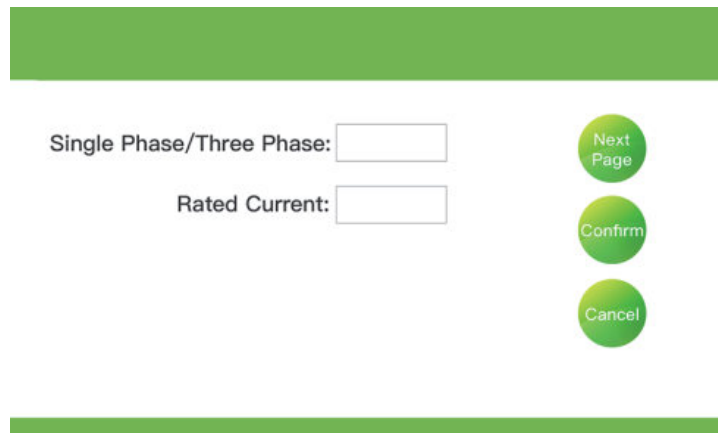
5. Users can configure the URL address, device station number, etc. of OCPP through this screen interface.



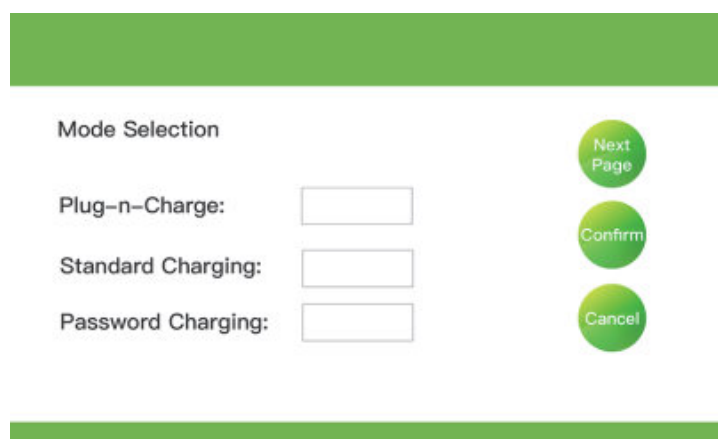
6. Users can select offline, 4G, WIFI communication, grounding, leakage and other protection functions on this screen. Click OK when you're done;



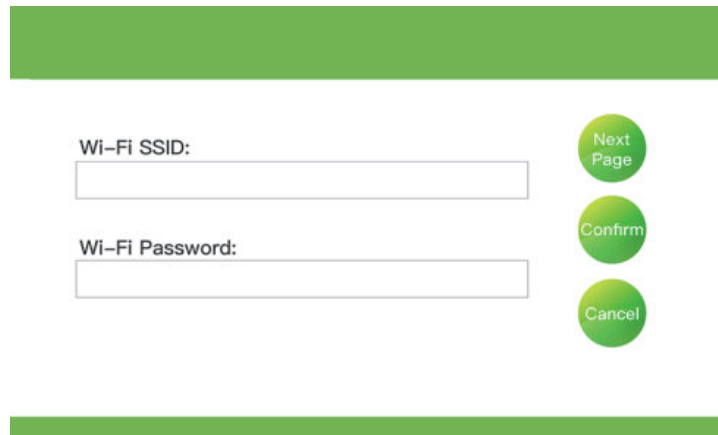
7. Users can select the AC single-phase/three-phase, maximum current coefficient, etc. of the device on this interface.



8. Users can choose the charging mode of the device on this interface, which includes: plug and play charging, APP scanning, RFID card swiping, password charging, etc.



9. Manually enter the WIFI name and password for the device connection.



A screenshot of a web interface for configuring Wi-Fi. At the top is a solid green horizontal bar. Below it, the text "Wi-Fi SSID:" is followed by a white rectangular input field. Below that, the text "Wi-Fi Password:" is followed by another white rectangular input field. To the right of these fields are three green circular buttons stacked vertically, labeled "Next Page", "Confirm", and "Cancel". At the bottom of the interface is another solid green horizontal bar.

10. After setting the parameters, click Save to return to the first interface.



7. Operation procedures and the use of emergency stop switch

7.1 Operating procedures

1. Open the hatch cover and charging socket protective cover on the vehicle after parking it in the charging station space.
2. Connect the car socket and the charging station plug.
3. Choose the appropriate mode (swipe card/ scan QR code), Save and then begin charging in accordance with the instructions above.
4. The combined instrument will display the pertinent parameters as soon as the charging indication turns on.
5. When the vehicle is fully charged, press and hold the unlock button to pull out the plug , insert it into the holder of the pillar.
6. Close the hatch cover and protective cover of the socket, end charging.

7.2 Use of emergency stop switch

1. In case of fire or electric shock, press the emergency stop switch immediately;
2. If the machine leaks electricity, please press the emergency stop switch immediately;
3. When the emergency stop switch is pressed in the charging state, the charging will stop immediately, the circuit breaker on the output side will be disconnected, and the fault light will turn on;
4. In case of pile failure, unable to stop charging, internal circuit short circuit and other abnormal conditions, please immediately press the emergency stop switch;
5. When the emergency stop switch is pressed in the non-charging state, the fault light will be on and the display screen will jump to the fault interface;
6. When the critical situation is relieved, please rotate the emergency stop switch, otherwise the charging cannot continue;

Warm reminders:

1. Please read the operation instructions and precautions carefully.
2. Before charging, check whether the charging gun is firmly in contact with the charging interface and whether the indicator works well.
3. During the charging process, do not forcibly pull out the charging connector. Forcibly pulling out the charging connector may cause fire at the connector, resulting in safety accidents.
4. To stop charging in advance, press the stop button and hold it for 5-10 seconds before pulling out the charging gun.
5. If any safety accident occurs during the charging process, such as abnormal sound or short circuit, press the emergency stop button immediately, disconnect all power supplies, and contact the on-site personnel.

8.0 User maintenance instructions

8.1 Instructions

The maintenance of AC charging pile is relatively simple. During operation, attention should be paid to ventilation and heat dissipation and keep the environment clean. There should be no explosive dangerous medium in the air, and no gas enough to corrode metal and destroy insulation. The device should be placed in a stable place without violent vibration or turbulence. Before the device is put into operation for the first time after transportation, or when it is put into operation again after a long-time outage, the whole machine should be checked. In addition to checking the wiring according to the drawings, it is also necessary to check whether the components are loose or fall off, whether the connection is strong, whether the contact is good due to transportation and other reasons. After the inspection, carry out the electrification test. Dust removal and cleaning should be carried out regularly according to the degree of ambient air. When cleaning, all power supplies should be cut off, and the surface and internal components of the device and the connection of wires should be cleaned with compressors, vacuum cleaners, or small brushes. Do not use any cleaning agent or damp rags when cleaning the internal components of the device, including the circuit board.

8.2 Maintenance

According to the need to clean the pile inside and outside, regularly check wiring terminals, wiring cables, contactors, switching switches, insurance for excessive dust and dirt. Check whether the insulation of terminals and wiring cables is strong, check the contact force of contactors, contacts and insurance, check whether the jumper cap of the circuit board is loose, whether the component is strong, and the control function and state switch of each module, to avoid the hidden trouble caused by failure.

9. Instructions of packing, handling, transportation and storage

9.1 Package: charging pile product weight 33.07lb (15KG) (including outer box),
Dimensions: 30.31"x16.14"x10.63" (770x410x270mm).

9.2 The transportation can be by car, vessel or aircraft.

9.3 During transportation, attention should be paid to sunscreen and civilized loading and unloading, avoiding violent vibration and impact.

9.4 Products stored in Class I environment and stored for more than 6 months are recommended to be re-tested and can only be used if they are qualified.

Federal Communications Commission (FCC) Statement.

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide Reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by **SHENZHEN HB ELECTRONIC CO LTD.** may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device is installed and operated without restriction.