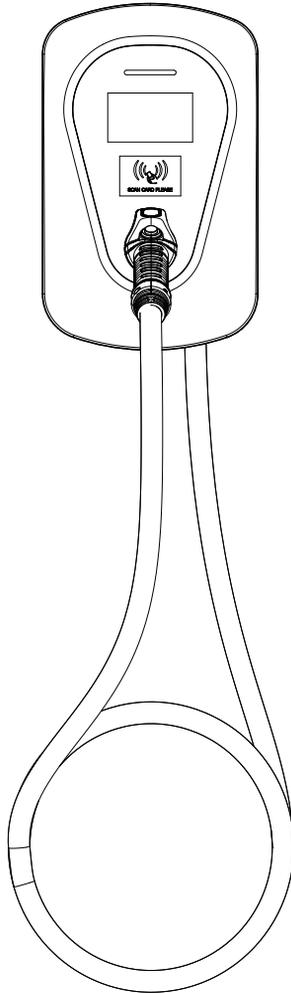


EV AC Charger Instruction Manual

HBE-AC32A01HW-U HBE-AC40A01HW-U HBE-AC48A01HW-U



Catalogue

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IMPORTANT SAFETY INSTRUCTIONS



WARNING – When using electric products, basic precautions should always be followed, including the following.

- a) Read all the instructions before using this product.
- b) This device should be supervised when used around children.
- c) Do not put fingers into the electric vehicle connector.
- d) Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- e) Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
- f) This charging pile cannot be dismantled, repaired or modified by the customer.
- g) To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22.1-15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI/NFPA70 National Electrical Code (USA).
- h) **WARNING**

GROUNDING INSTRUCTIONS

This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

- i) When any fault occurs, the product is prohibited to use, the user is prohibited to repair, must be sent to the after-sales maintenance or call the after-sales service for help.
- j) Risk of electric shock.



SAVE THESE INSTRUCTIONS

CONCERNANT LA SÉCURITÉ CONSERVER CES



AVERTISSEMENT: Des mesures de précautions de base devraient être utilisées avec tous les produits électriques, y compris les mesures indiquées ici.

- a) lisez toutes les instructions avant d'utiliser ce produit.
- b) Ce dispositif devrait être supervisé lorsqu'il est utilisé autour des enfants.
- c) Ne mettez pas les doigts dans le connecteur du véhicule électrique.
- d) N'employez pas ce produit si le cordon d'alimentation flexible ou le câble EV est effiloché, a l'isolation cassée, ou tout autre signe de dommages.
- e) N'utilisez pas ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert, ou montre toute autre indication de dommages.
- f) Cette pile de charge ne peut être démontée, réparée ou modifiée par le client.
- g) Pour réduire le risque d'incendie, branchez uniquement un circuit pour une protection contre les surintensités de circuit de branche conformément à la norme CSAC 22.1-15 du Code canadien de l'électricité, partie 1 (Canada) ou à la norme NOM-001-SEDE Installations électriques (utilitaires) (Mexique) ou à la norme ANSI/NFPA 70 du Code national de l'électricité (États-Unis).
- h) **CONSIGNES DE MISE À LA TERRE** Ce produit doit être raccordé à un réseau de câblage mis à la terre, métallique et permanent, ou un conducteur de mise à la terre de l'appareil doit être ajouté au circuit et raccordé à la borne de terre de l'appareil ou au conducteur d'alimentation de l'appareil.
- i) Quand n'importe quel défaut se produit, le produit est interdit pour être employé, l'utilisateur est interdit pour réparer, doit être envoyé au service après-vente ou appeler le service après-vente pour l'aide.
- j) Risque de choc électrique.



CONSERVER CES INSTRUCTIONS

For Both FCC & IC application:

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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.

MPE Requirements

To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne.

La FCC des états-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son fonctionnement.

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 the charging needs of electric vehicles with different capacities.

2. Equipment parameters

2.1 HBE-AC32A01HW-U parameters

Specifications	Values
Maximum power of the product	7.6KW
Input Voltage	120-250VAC
Input Frequency	50/60Hz
Output voltage	120-250VAC
Single Maximum Output Current	32A
Charge Mode	Optional: <input type="checkbox"/> Offline swipe card <input type="checkbox"/> Operation online scan code <input type="checkbox"/> Operation online swipe card <input type="checkbox"/> Plug and play <input type="checkbox"/> Credit card terminal <input type="checkbox"/> Password charge
Communication Mode	Optional: <input type="checkbox"/> Ethernet <input type="checkbox"/> WIFI <input type="checkbox"/> 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: <input type="checkbox"/> 5 m <input type="checkbox"/> 7 m <input type="checkbox"/> 7.5 m)
Size	15.02"x9.50"x4.13"(381.4 x 241.4 x 105mm)
Operating Environment	Outdoor , Indoor
Operating Occasion	Residential charging

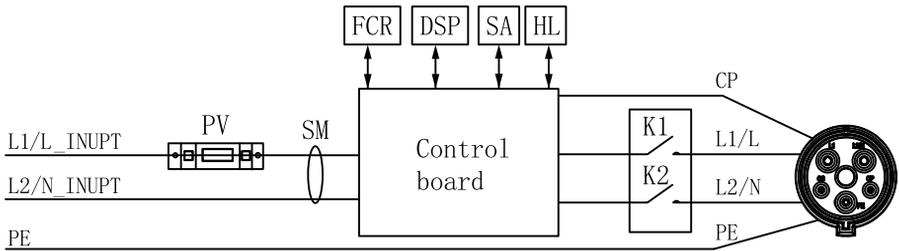
2.2 HBE-AC40A01HW-U parameters

Specifications	Values
Maximum power of the product	9.6KW
Input Voltage	120-250VAC
Input Frequency	50/60Hz
Output voltage	120-250VAC
Single Maximum Output Current	40A
Charge Mode	Optional: <input type="checkbox"/> Offline swipe card <input type="checkbox"/> Operation online scan code <input type="checkbox"/> Operation online swipe card <input type="checkbox"/> Plug and play <input type="checkbox"/> Credit card terminal <input type="checkbox"/> Password charge
Communication Mode	Optional: <input type="checkbox"/> Ethernet <input type="checkbox"/> WIFI <input type="checkbox"/> 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: <input type="checkbox"/> 5 m <input type="checkbox"/> 7 m <input type="checkbox"/> 7.5 m)
Size	15.02"x9.50"x4.13"(381.4 x 241.4 x 105mm)
Operating Environment	Outdoor , Indoor
Operating Occasion	Residential charging

2.3 HBE-AC48A01HW-U 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: <input type="checkbox"/> Offline swipe card <input type="checkbox"/> Operation online scan code <input type="checkbox"/> Operation online swipe card <input type="checkbox"/> Plug and play <input type="checkbox"/> Credit card terminal <input type="checkbox"/> Password charge
Communication Mode	Optional: <input type="checkbox"/> Ethernet <input type="checkbox"/> WIFI <input type="checkbox"/> 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: <input type="checkbox"/> 5 m <input type="checkbox"/> 7 m <input type="checkbox"/> 7.5 m)
Size	15.02"x9.50"x4.13"(381.4 x 241.4 x 105mm)
Operating Environment	Outdoor , Indoor
Operating Occasion	Residential charging

3. Schematic diagram



4. Shape Model Diagram

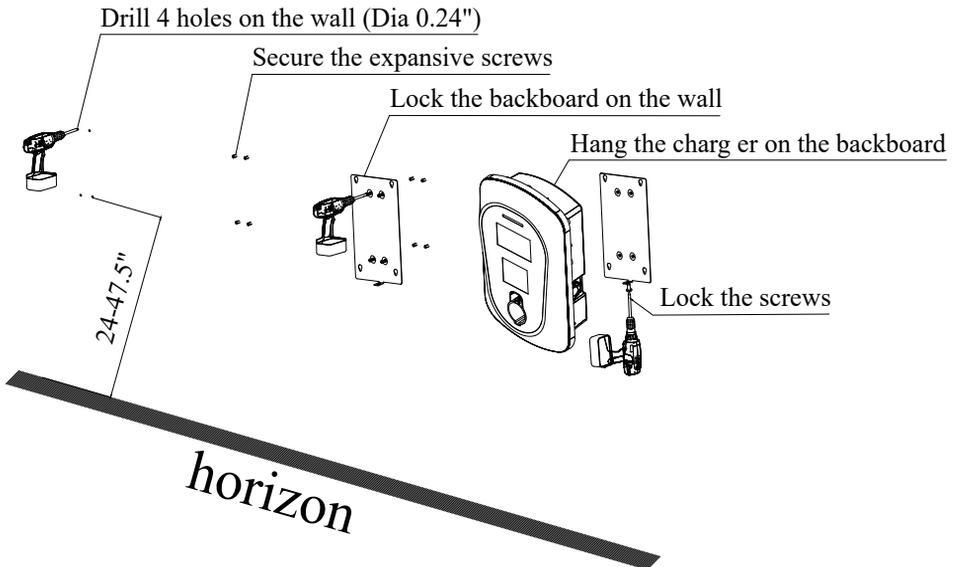


5. Product installation

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

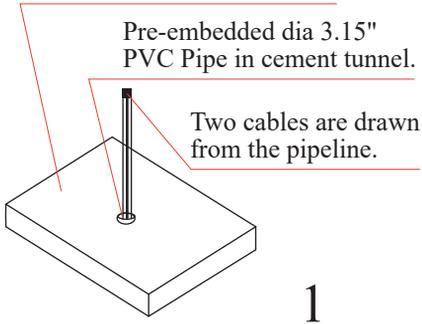
5.2 Basic Requirements for hanging plate:



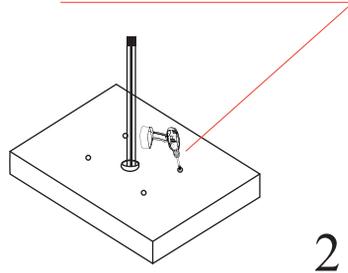
5.3 Column Installation Requirements:

Picture: Height, width, foundation installation diagram

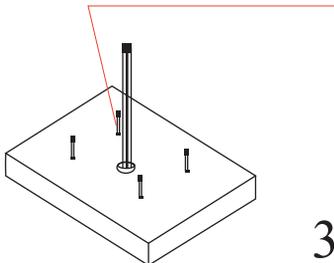
Build a cement pier on the ground(15.74"*11.82"*7.87").



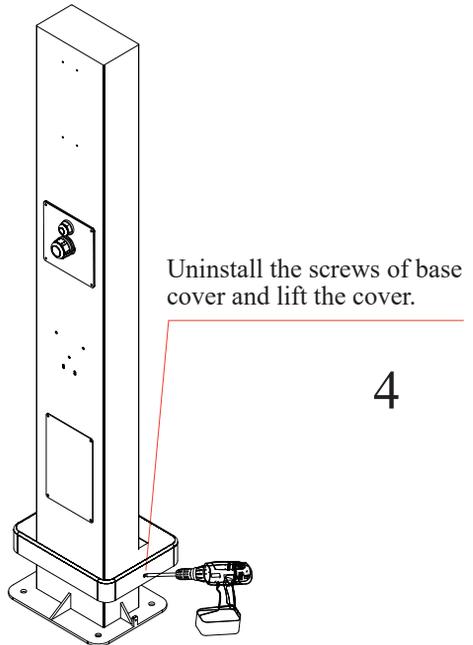
Drill 4 holes in the cement pier(4-dia0.55") Drill a hole that is 4.73" deep.



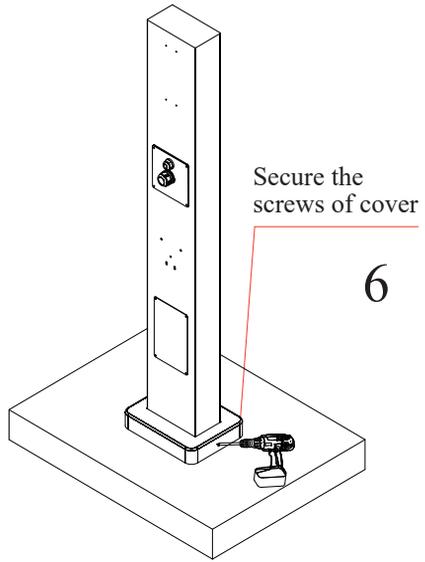
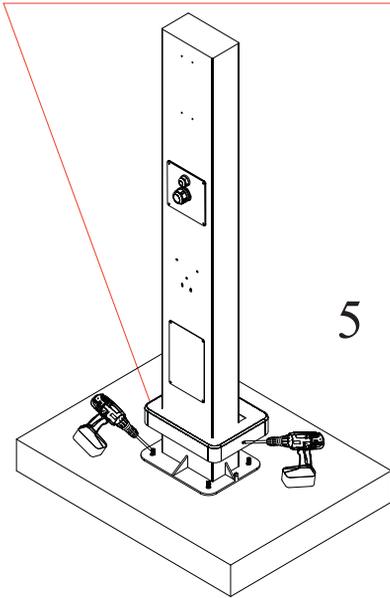
Drive the expansion screw into the cement pier.



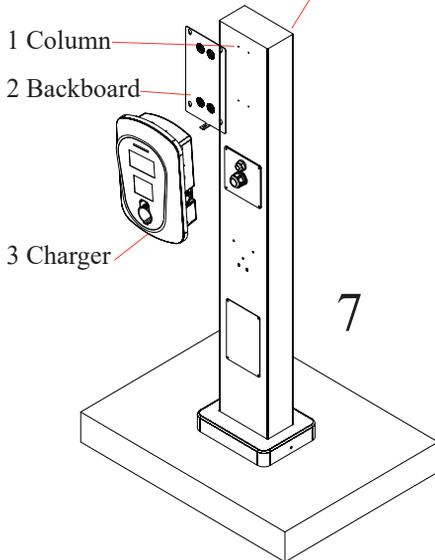
Uninstall the screws of base cover and lift the cover.



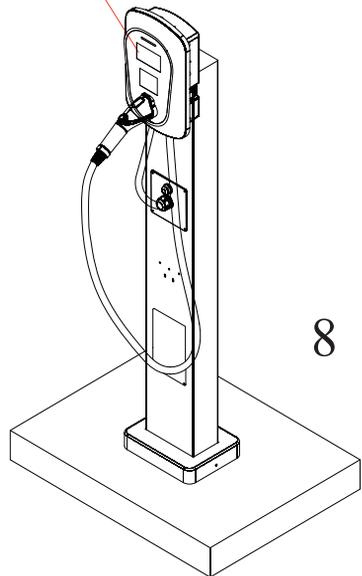
Aligned the screws of pedestal with the ones in cement pier and tight them.



Assemble the backboard and charger pile in sequence



Accomplish



5.4 Recommended Tools for Installation:

HBE-AC32A01HW-U Cable: 3*10AWG(5.26mm²) Power distribution: 2P 40A

HBE-AC40A01HW-U Cable: 3*8AWG(8.37mm²) Power distribution: 2P 63A

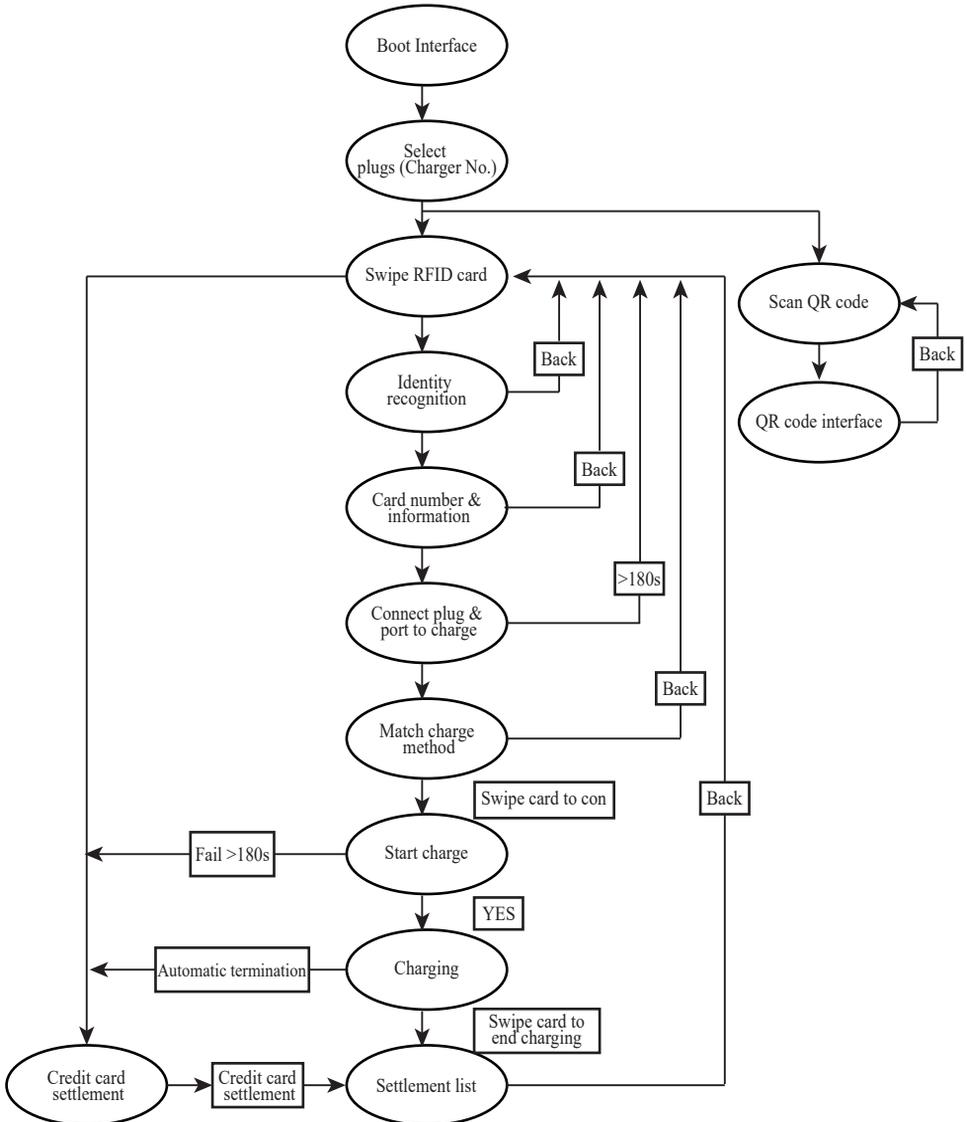
HBE-AC48A01HW-U Cable: 3*8AWG(8.37mm²) Power distribution: 2P 63A

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

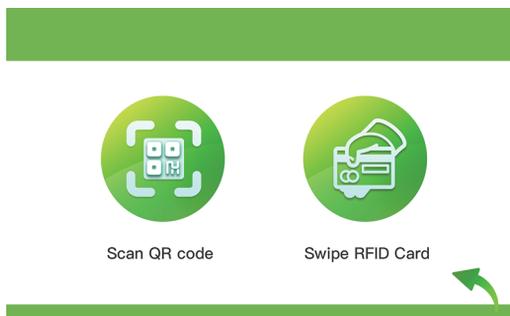
This series of charging machine has two charging startup modes: swiping card (online card swiping/ offline card swiping) and scanning QR code. Specific operation examples are as follows:

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.

Charging Amount: \$

Voltage: V/ac

Current: A

Electric Quantity: kW·h

Charging Duration: Min

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

Card No.:

Account Balance: \$

Order Amount: \$

Charging Capacity: kW·h

Charging Duration: Min

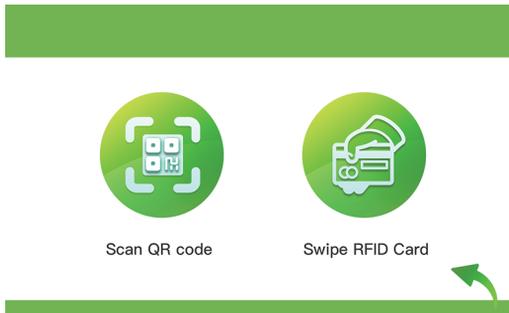
Prompt:

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

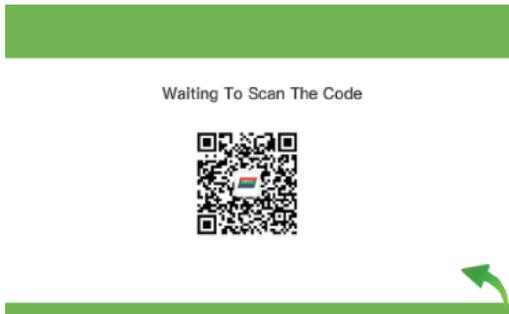
1. Click on the middle position of the screen to enter the charging method selection interface.



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.

Charging Amount: \$

Voltage: V/ac

Current: A

Electric Quantity: kW·h

Charging Duration: Min

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

Card No.:

Account Balance: \$

Order Amount: \$

Charging Capacity: kW·h

Charging Duration: Min

Prompt:

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.

Card No.:

Account Balance: \$

Order Amount: \$

Charging Capacity: kW·h

Charging Duration: Min

Prompt:

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 ***.

A screenshot of a password entry screen. At the top is a solid green horizontal bar. Below it is a white rectangular text input field. Underneath the input field is a numeric keypad consisting of two rows of green buttons with white text. The first row contains buttons for digits 1, 2, 3, 4, 5, and 6. The second row contains buttons for digits 7, 8, 9, 0, a left-pointing arrow, and the text 'OK'. A green curved arrow points from the bottom right towards the 'OK' button.

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

A screenshot of a configuration screen for protection parameters. It features a green header bar at the top. Below the header are three rows of configuration options. Each row consists of a text label followed by a white input field and a green circular button. The first row is labeled 'Overvoltage Value:' with a 'Next Page' button. The second row is labeled 'Undervoltage Value:' with a 'Confirm' button. The third row is labeled 'Overcurrent Value:' with a 'Cancel' button. A solid green horizontal bar is located at the bottom of the screen.

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

A screenshot of a configuration screen for OCPP parameters. It features a green header bar at the top. Below the header are two rows of configuration options. Each row consists of a text label followed by a white input field and a green circular button. The first row is labeled 'OCPP:' with a 'Next Page' button. The second row is labeled 'Charger No.:' with a 'Confirm' button. A 'Cancel' button is also present at the bottom right of the screen. A solid green horizontal bar is located at the bottom of the screen.

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

A screenshot of a settings screen with a green header bar. Below the header, there are several settings options, each with a checkbox and a label: 'Offline:', '4G:', 'Leakage Protection:', 'Wi-Fi:', 'Ground Protection:', and 'Ethernet:'. To the right of these options are three circular buttons: 'Next Page', 'Confirm', and 'Cancel'. At the bottom left, there are two rectangular buttons: 'Change Password' and 'Check'.

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

A screenshot of a settings screen with a green header bar. Below the header, there are two settings options, each with a text input field: 'Single Phase/Three Phase:' and 'Rated Current:'. To the right of these options are three circular buttons: 'Next Page', 'Confirm', and 'Cancel'.

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.

A screenshot of a settings screen with a green header bar. Below the header, there is a label 'Mode Selection'. Underneath, there are three settings options, each with a text input field: 'Plug-n-Charge:', 'Standard Charging:', and 'Password Charging:'. To the right of these options are three circular buttons: 'Next Page', 'Confirm', and 'Cancel'.

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



Wi-Fi SSID:

Wi-Fi Password:

Next Page

Confirm

Cancel



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 19.84lb (9KG) (including outer box),
Dimensions: 27.95" x 12.99" x 7.87" (710*330*200MM).
- 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.