Charging Pile Instruction Manual

Catalog

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 plug clean and dry. If there is any dirt, please wipe it with a clean dry cloth. Do not touch the charging refill with your hand when it is energized.
3. Do not use charging piles in case of broken charging guns or charging cables, cracks, exposed wires, 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 power leakage.
5. If there is any abnormal situation during use, 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 hybrid tram before charging.
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 when charging to avoid electric shock.
10. During the charging process, the charging connector shall not be forcibly unplugged, which can avoid safety accidents caused by the ignition at the joints

1. Introduction

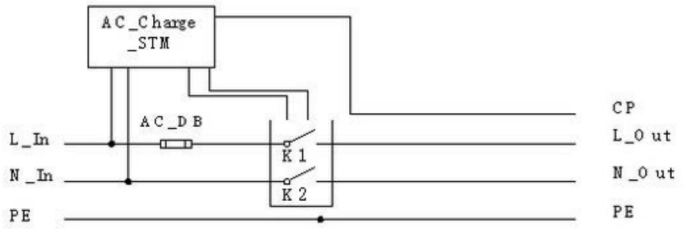
This product is a wall mounting type AC charging pile, which is mainly used for AC slow charging of electric vehicles. It integrates charging control, human-computer interaction control, communication, billing and metering functions. With protection class up to 4, it can work safely indoors (outdoors need to be equipped with an awning). The power conversion unit of the charging pile follows the principle of modular design to meet the charging needs of electric vehicles with different capacities. It is the best choice for AC slow charging.

2. Equipment parameters

Specifications	Values
Product Power	10KW
Input Voltage	120-250VAC
Input Frequency	50-60HZ
output Voltage	120-250VAC
Maximum Output Current	48A
Charge Method	Standard: offline card swiping, Password charging, Plug and charge Optional: online card swiping, Online APP code scanning

Optional Communication Method	Ethernet, WIFI, Bluetooth, 4G
Operating Temperature	-25~55℃
Relative Humidity	≤95%
Protection Level	4
Safety Design	The protection of leakage, over voltage, over current, under voltage, emergency stop, full stop charging, short circuit, over temperature.
Installation Mode	Wall mounting type
Interfaces Count	One
Size	15.02"*9.50"*4.13" (381.4mm*241.4mm*105mm)
Operating environment	Outdoor (Equipped with rainproof shed), Indoor
Operating occasion	Residential charging, commercial charging

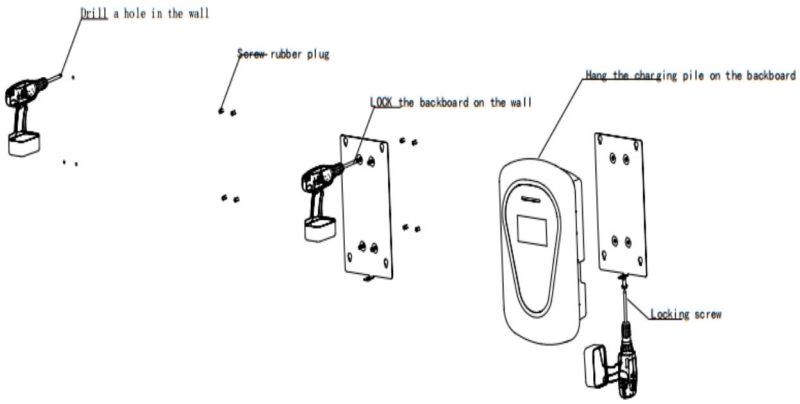
3. Schematic diagram



4. Shape Model Diagram

5. Product installation

5.1 Basic Requirements for hanging plate (unit:mm):



5.2 Input Device Requirements:

a. Cable: ZR-YJV22-3*6mm²

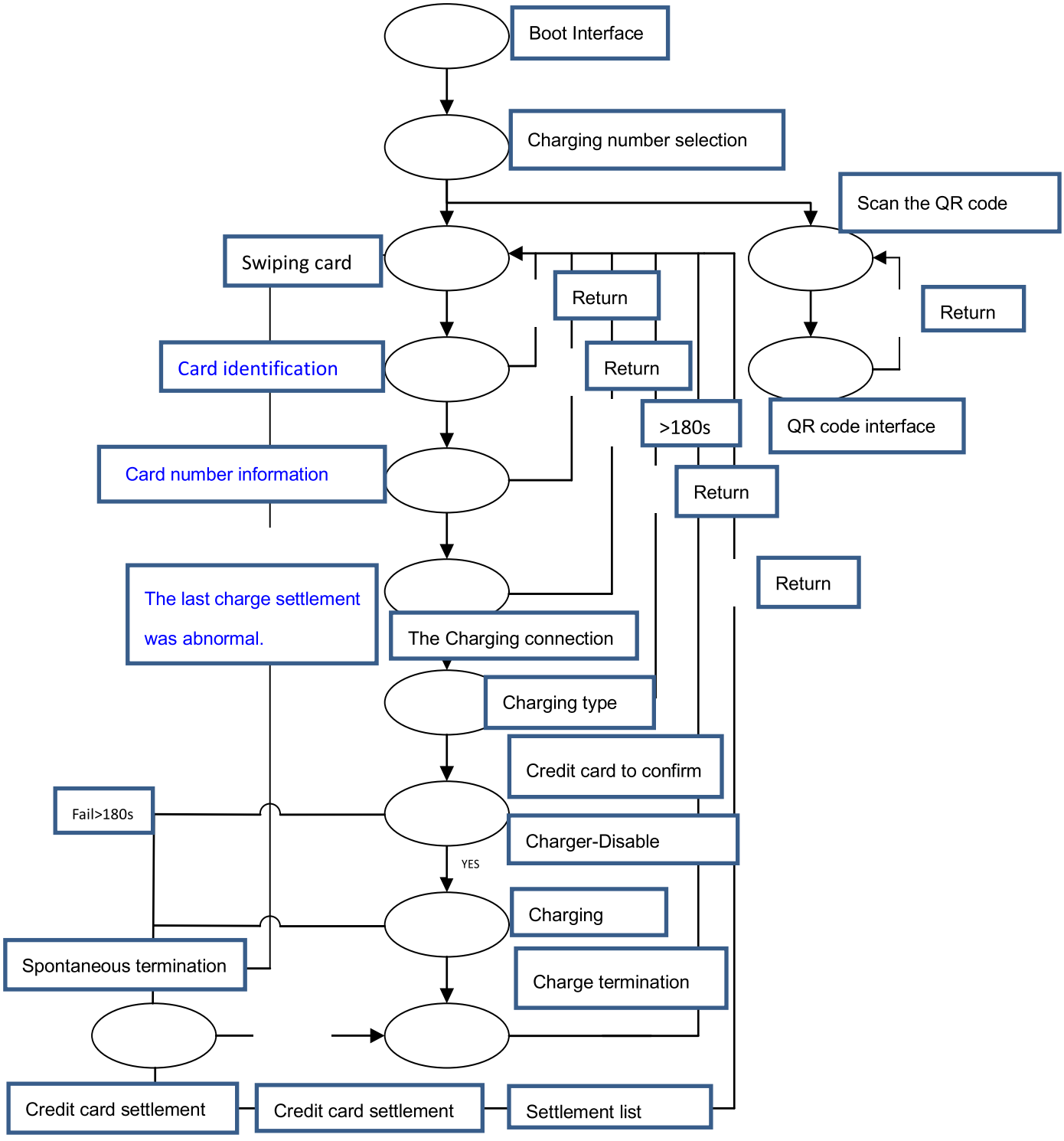
b. Power distribution: 48A/2p

5.3 Device Commissioning:

1. Check the device before power-on
2. Check the power-on voltage of the device
3. Pre-charge test

6. Charging Operation

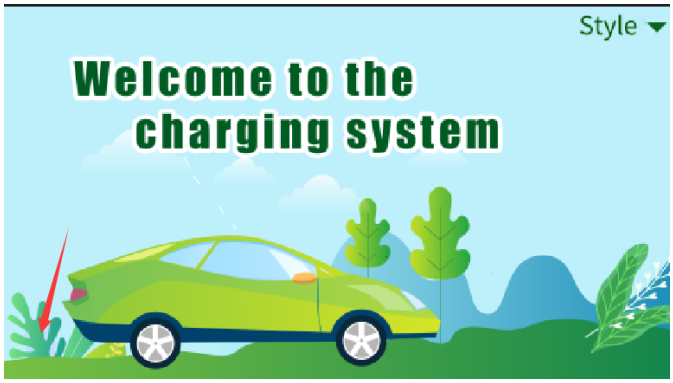
6.1 Charging operation flowchart



6.2 Charging Mode Startup operation interface

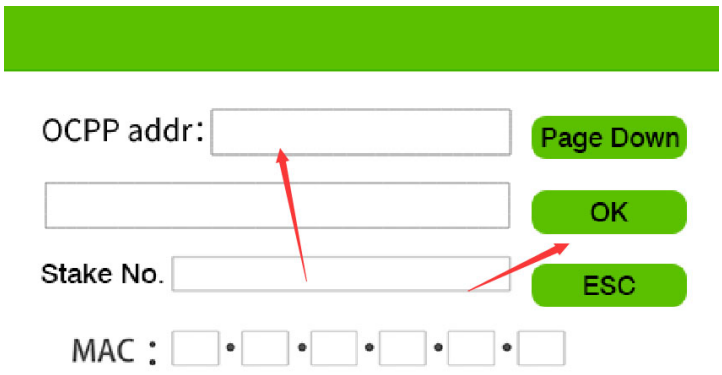
Networking

1. Click the lower left corner of the home page for more than five consecutive times.

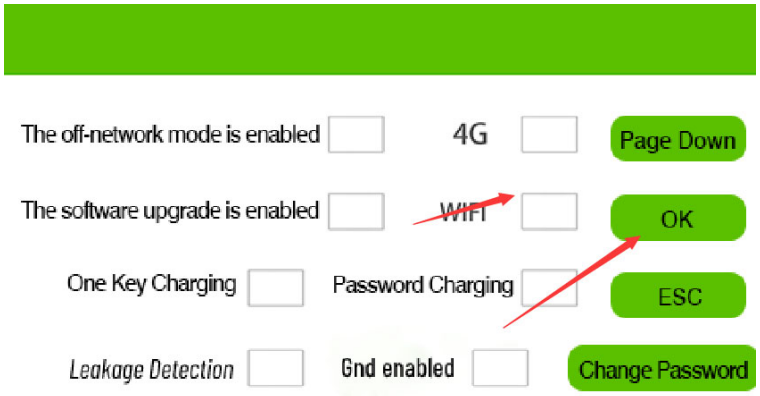


2. Enter the parameter setting and record page, click the parameter and enter password 666 to enter.

3. Click the next page to go to the Setting OCPP address interface, click the blank area near the OCPP address, enter the address 47.254.37.118:8887, and click OK to save.

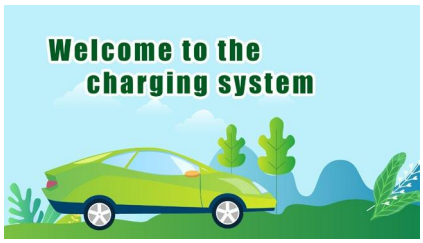
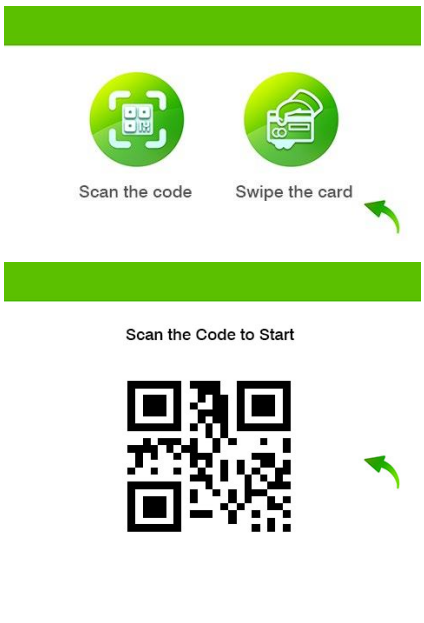


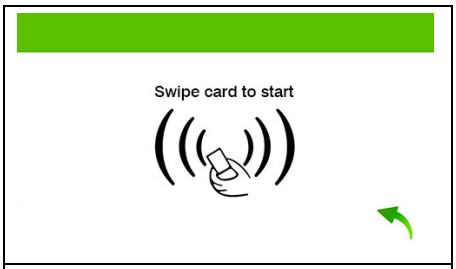
4. Click the next page to go to the setting network parameters interface, the blank next to 4G, display the ✓ symbol, and click OK to save.



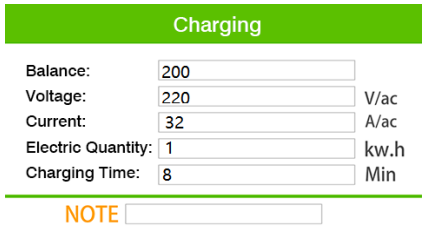
This series of charging machine has two charging startup modes: swiping card and scanning QR code. Specific operation examples are as follows:

a. Charging by swiping card

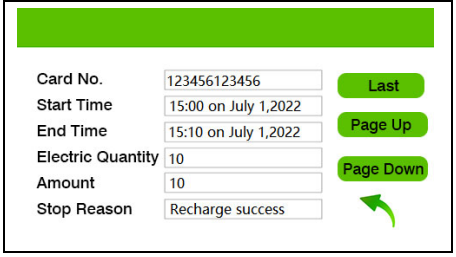
Click any position on the screen to enter the charging mode selection interface.

Click “Scan the code” to enter QR code interface

Click “Swipe the card” to enter the swiping card interface



Start successfully and enter charging.

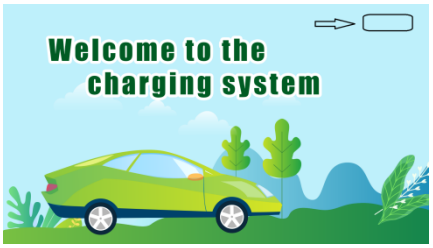


After charging, the billing screen is displayed.

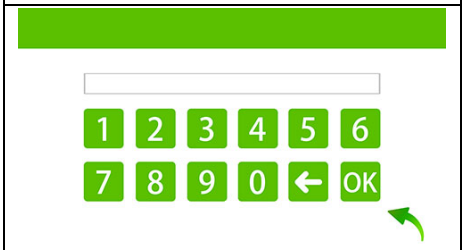


6.3 Process for Setting Parameters

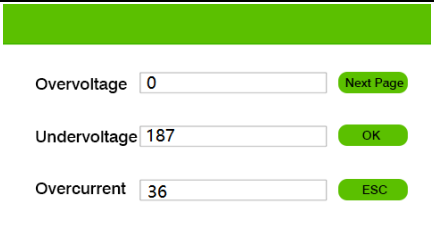
Click continuously in the upper right to jump to the password input interface.



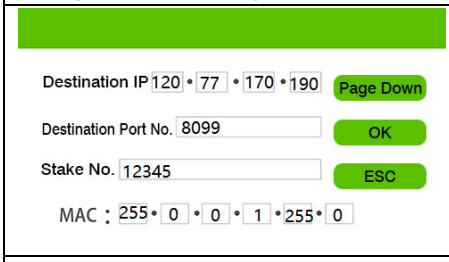
Enter a 4-digit password ****



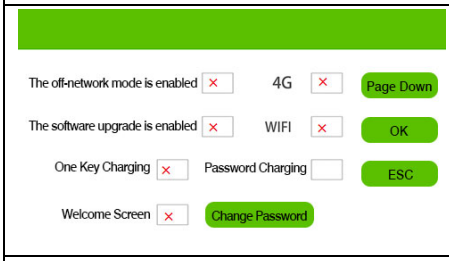
Click “OK” to enter into the over-/under-voltage interface.



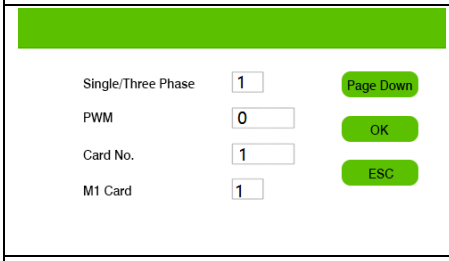
Click the next page to enter the background IP setting interface



Click the next page to enter the function interface



Click the next page to enter the PWM setting interface



After setting, click "OK" and then "ESC" to return to the main interface. Parameter setting is complete

b. Scan QR code for charging mode

Scan the QR code on the pile body directly with App or applet of WeChat .

7. Operation procedures and the use of emergency stop switch

7.1 Operating procedures

1. Park the car in the charging pile parking space, then unlock the car and open the protection cover and hatch cover of AC charging.
2. Connect the charging pile plug to the vehicle socket.
3. Operate according to the steps shown in the charging pile of electric vehicles, select the required mode, set the corresponding amount, power amount and duration, and then click OK to charge.
4. When the charging indicator lights up, the combined instrument will display relevant parameters.
5. The vehicle is unlocked and charged when fully charged. Press and hold the unlock button to pull out the front of the vehicle and insert it into the charging box.
6. Close the hatch cover and protective cover of the socket, and then the charging case is finished.

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.

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. 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, check 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: 10KW charging pile product weight 7KG (including outer box,
Dimensions: 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.