EV Charging Station Manual

It is recommended to read the instructions before use



CATALOG

Safety instructions - 1

Product Overview - 2

Parameter introduction - 3

Operating Instructions

Pre-use preparation - 4

Charging steps

Standby status - 4

Waiting for card swipe status - 4

Start-up device - 5

Start charging - 6

Stop charging - 6

Key operation instructions

How to set the charging current - 7

How to set time delay charging - 8

How to set the timing charging - 8

How to access the menu page - 9

Menu page basic key operation - 9

How to use the App - 15

Function introduction - 16

Control Box LCD Display - 17

Installation and operation instructions - - - - - - - - - - - - - 20

Common Troubleshooting - 21

Charging Status and Indicator Light - - - - - - - - - - - - - - - - - 22

Safety instructions

Warning : The charging station must be grounded (PE) in order to use it properly

Warning : Do not place flammable, explosive or combustible materials, chemicals, combustible vapors or other hazardous materials near the charging station.

Warning : Do not attempt to disassemble, repair or modify the charging station. If you need to repair or modify it, please contact the relevant staff. improper operation may cause the charging station damage, water leakage, leakage of electricity, short circuit, electric shock and other risks

Warning : Use with caution during thunderstorms

Warning : Children should not approach or use the charging station during the charging process to avoid electric shock

Warning : Do not drive the car while it is charging. You can only start charging When the car is stationary. For hybrid Cars, please turn off the engine before charging

Warning : In case of emergency during the operation of the charging station, press the emergency stop button immediately to cut off all input and output power

Warning : The use of the charging station is prohibited in the following cases and the manufacturer should be contacted immediately:

* Charging Station shell is broken
* When the charging station is damaged, cracked, frayed, broken, etc.
* Lightning strikes charging station
* Accidents or fires near charging stations
* Water in the charging station

Product Overview

Brief description :

This product is used for electric vehicle AC charging, the product design is highly simple, you can conveniently charge your car by using a Type2, Type1, GB/T or TS-NACS charging cable.It is equipped with swipe card and plug-and-play charging methods and multiple safety protection functions.with good dustpro of and water-proof function, can be operated safely outdoor.



Parameter introduction

Max Power Rating	22kW
APP	Support
RFID Card	Support
Leakage Protection	Type B AC30mA + DC6mA
Power supply system	Single Phase & Three Phase
Rated voltage	Single Phase :85-264V Three Phase :380V±20%
Rated current	8-10-13-16-20-25-32A
Input Frequency	50Hz/60Hz
Protection level	IP66
Working temperature	-30℃ ~ +55℃
Storage temperature	-40℃ ~ +80℃
Standby power	<3W
Working humidity	5% ~ 95% non-condensation
Cable Specification	5G 6mm²+1*0.5mm²

Control box function :

1.Leakage protection (restart recovery)

2.Overvoltage and undervoltage protection (self-test recovery)

3.Lightning protection

4.Overcurrent protection

5.Overheat protection

6.Grounding protection

7.RFID card function (can be set according to user needs)

8.Appointment Time

9.WIFI

Product Performance :

1.Insulation resistance: >1000Ω

2.Terminal temperature rise: <50K

3.Mechanical life: Charging Plug plugging and unplugging times (Non operating state)>10000 times

4.External impact: Charging station's Plug can withstand the 1-meter drop and 2 tons of vehicle crushing

5.With emergency stop function

Operating Instructions

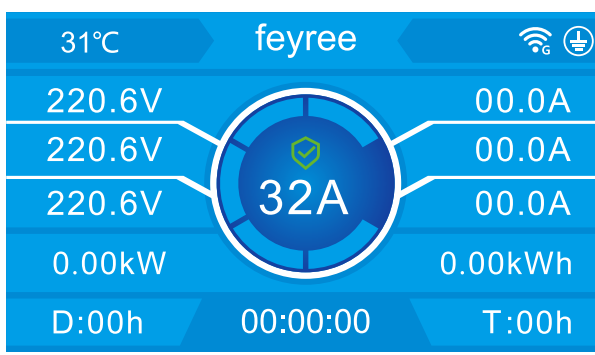
Pre-use preparation :

1. Ensure that there are no open flames around the equipment and that the surrounding space is not blocked
2. Ensure that the equipment casing and charging cable are not damaged
3. Ensure proper maintenance of equipment
4. Make sure the emergency stop button is popped up, if it has been pressed, Please rotate the button clockwise to turn the button back.

Charging steps :

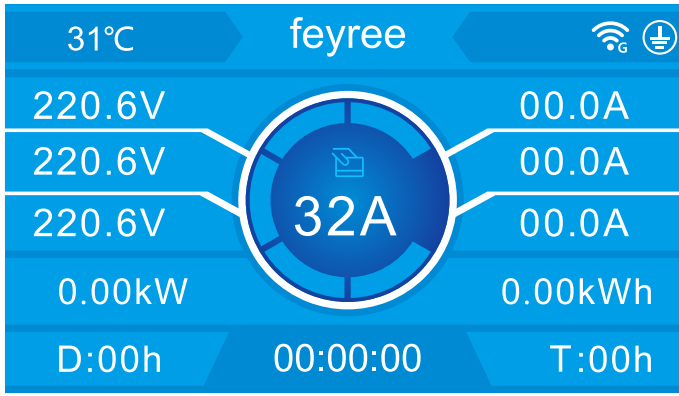
(1) Standby status

1. When the charging stationlis in standby mode, the interface shows that the device is ready for charging, as shown in the figure below:
2. The indicator light on the case (for Wi-Fi function only) is green and always on;



(2) Waiting for card swipe status

After park your car near the charging station, take the charging plug from the plug holder,set the charging current,then insert the charging plug into the connector of the electric vehicle.Please make sure that the plug is inserted in place and the connection is safe and reliable.When the charging plug monitors that the charging plug is inserted correctly,It will enter the status of identity verification, as shown in the following figure:



(3) Start-up device

1. Use RFID cards to authorize the use of charging station

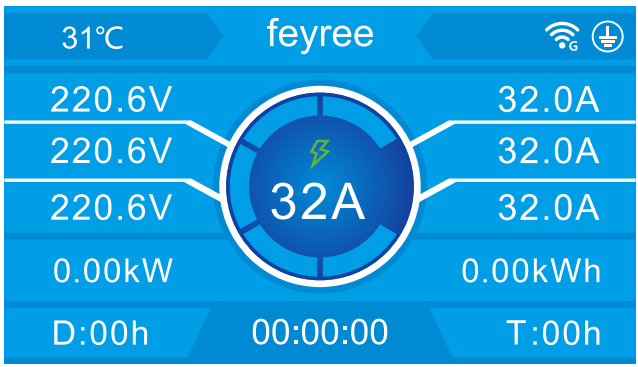
START



(4) Start charging

1. The device starts charging and the interface displays the charging status and information parameters as shown in the following figure:

2. The indicator light on the case (for Wi-Fi function only) is green breathing;



(5) Stop charging

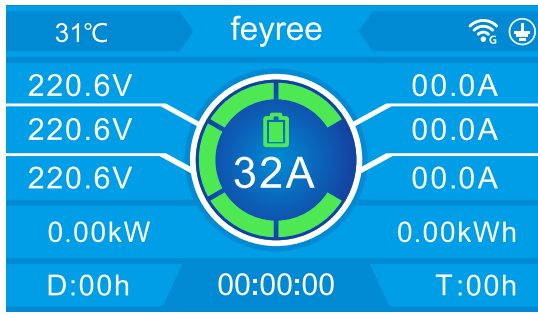
1. When the vehicle is fully charged, the charging station will automatically stop charging; in case of emergency, you can manually press the Emergency stop button to cut off power.

2. RFID card can also be used to authorize stopping the use of the charging station during charging;

STOP



3. The display is as follows



4. The indicator light on the case (for Wi-Fi function only) is green flashing or green always on;

Key Operation Instructions

(1) How to set the charging current

1.When the charging plug is not inserted in the car, press the button A on the panel to adjust the charging current, After use the RFID card to turn on the charging, the device will output the corresponding current.the current setting range is determined by the max charging power of charging station.It can set the current of 8-10-13-16-20-25-32A.



(2) How to set the time delay charging

1.When the charging plug is not inserted in the car,touch the button on the panel shows below to set the delayed charging time,after swiping the card and turn on the charger,the device will start charging after "X" hours according to the delayed time set.which means the charger will start charging after "X" hours,and the range can be set from 0 to 15 hours (each touch increase an hour);



(3)How to set the timing charging

1.touch the button on the panel shows below to modify the timing charging , after swiping the card and turn on the charger,The device will keep charging for "X"Hours according to the time you set.which means the charger will keep charging for "X" hours,after the time runs out,the charger will stop charging. you can set the time from 0 to 15 hours (each touch increase an hour);



(4) How to access the menu page

1. Press the area in the picture below for 5 seconds to enter the setting menu(without RFID function version charging station)

2. Press the area in the picture below for 5 seconds .then swip the RFID card to enter the settings menu (with RFID function version charging station)



(5) Menu page basic key operation

1. Touch the panel icon area to upward,downward, enter, back and increase or decrease the parameters of the menu.
Note: When the Charging plug is plugged in, it is not possible to enter the charging plan and load balance setting function, Need to pull out the charging plug to operate.



2.Menu - Charging plan

One-off Plan

Set Current：Adjust Current

Delay Start：Set Delay Time

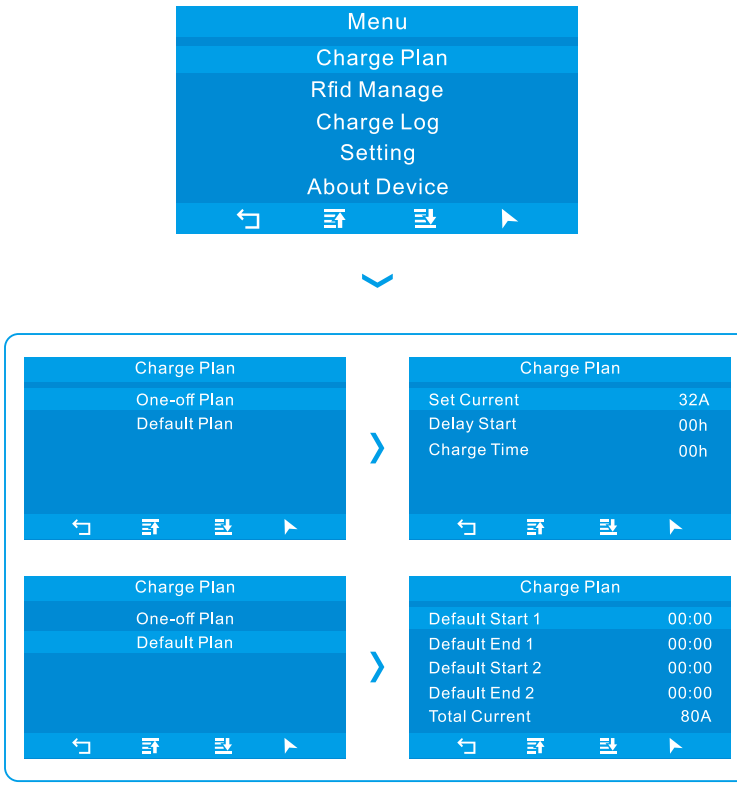
Charge Time：Set Charging Time

Default Plan

Default Start：Prohibit charging start time

Default End：Prohibit charging end time

Total Current：Load balancing,setting the total current value of the circuit.
This feature is only available for Dynamic Load Balancing Charging station.



3.Menu - Rfid Manage

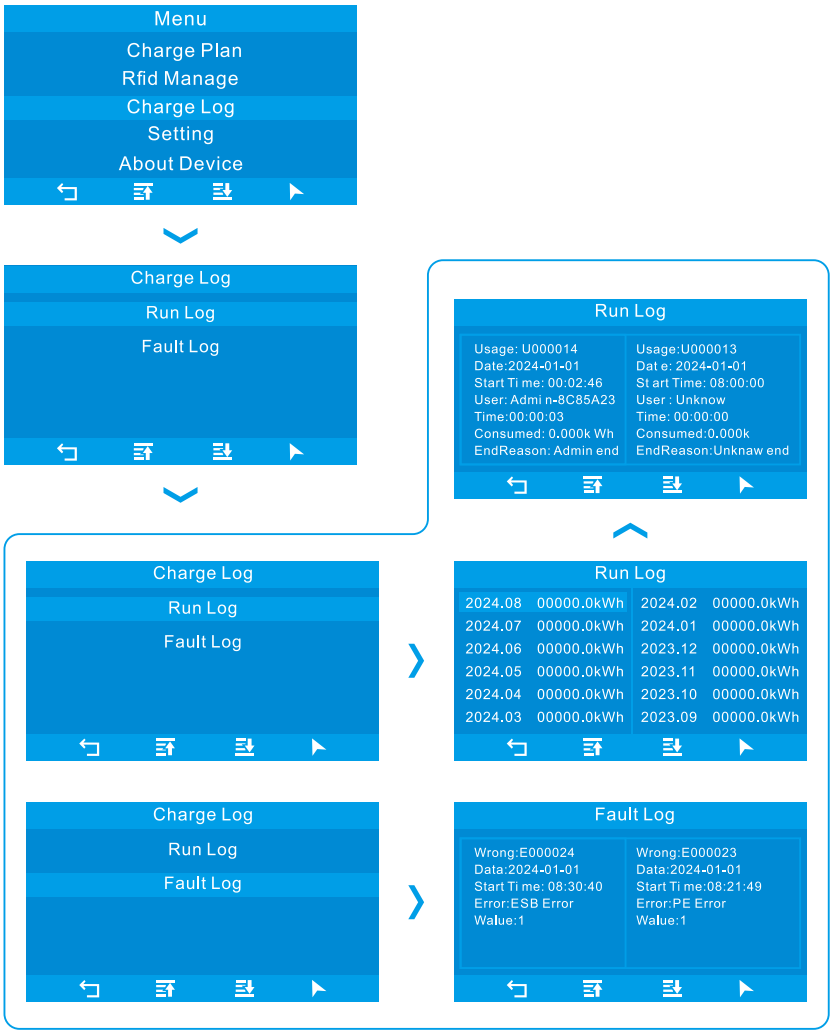
Charge Verify：Cancel or restart the use of RFID cards.

ID List：Add a blank RFID card to the charging station that can be used. Delete RFID that has already been added.



4.Menu - Charge Log

Record the charging logs for the past 12 months



5.Menu - Setting

Basis Settings

Hotkeys:Turn on and off the lock button to prevent others from operating it

Ground Check：To turn on and off the grounding (PE) detection, please use the charging station in the grounded (PE) state

Leakage Check:Turn on and off the Leakage detection. To ensure safe charging, please use the charger in a leakage-protected condition.

Net Settings

Wifi Info:Wireless network information

Reset Wifi:Clear network configuration

Time Settings

Local Time：Local time

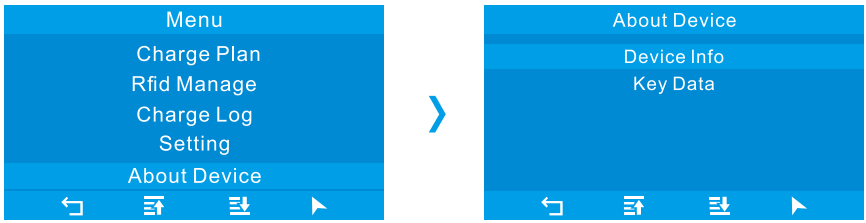
Set Date：Set date

Set Time：Set time

Set Timezone：Set the corresponding number of time zones according to your own time zone (e.g. East Zone 2, please set+2, West Zone 6, please set -6)



6.Menu - About Device



How to use the App

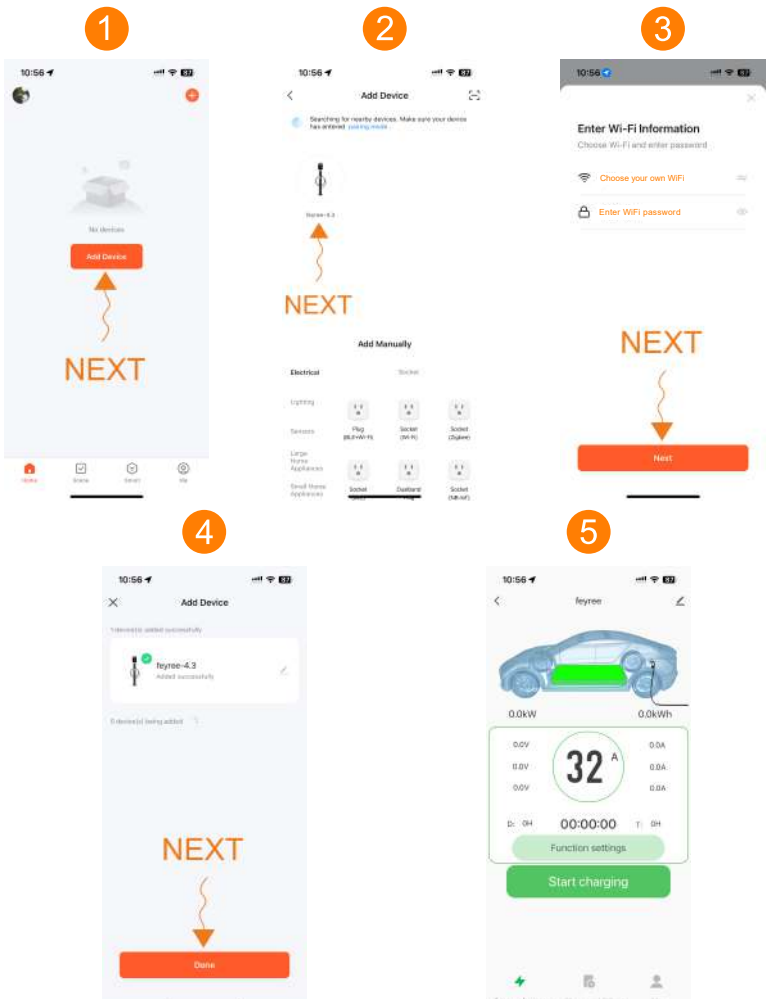
How to use the App (the device needs to have Wifi function, Bluetooth function)

tuya smart

Smart life

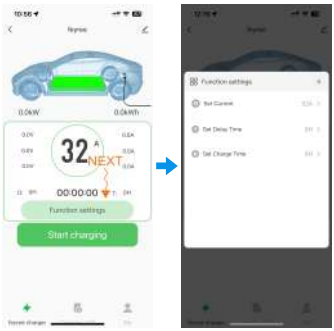
1.Please download the "Tuya Smart " or "Smart Life"App on your cell phone, the APP icon as shown above

2. After downloading, open the app, turn on your phone WiFi and Bluetooth, select Add Device, and follow the instructions to complete Add a new device, as shown below:



Function introduction

Function settings

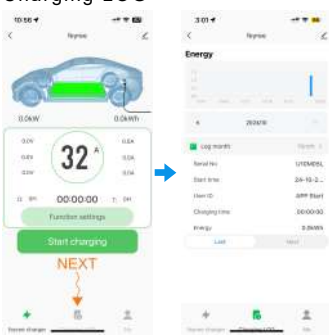


Ⓐ Set Curent
8A~32A adjustable

Ⓓ Set Delay Time
1H-2H-3H-...15H

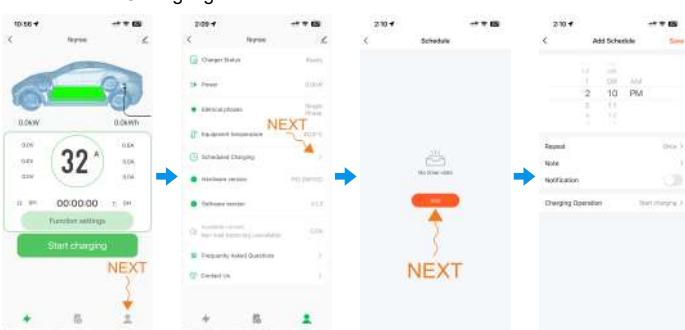
Ⓣ Set Charge Time
1H-2H-3H-...15H

Charging LOG



Select the log month, then you can click on "Last" and "Next" to view each charge log for the month.

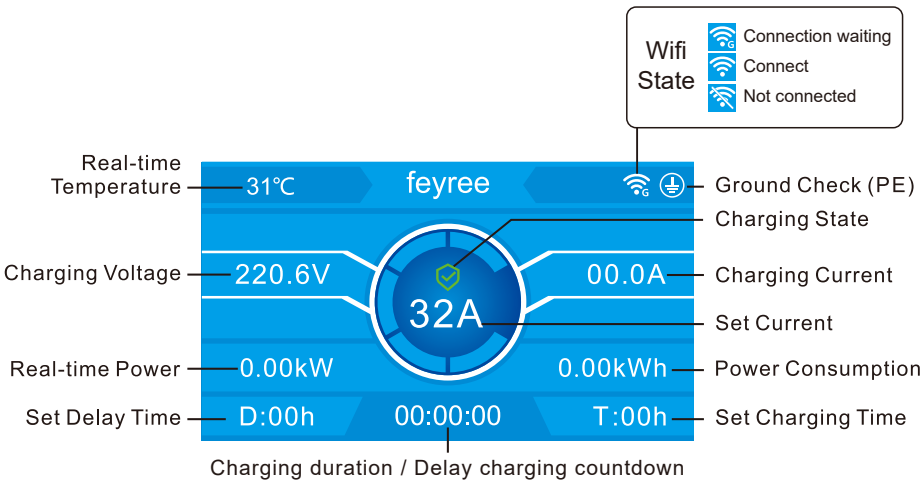
Scheduled Charging



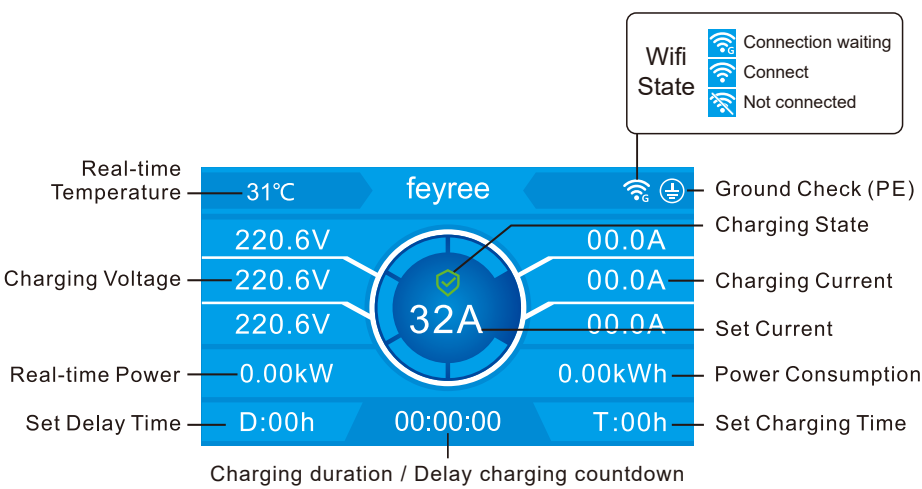
Set start and end times to create your own charging schedule. You can also long press a time to delete it if needed.

Control Box LCD Display

Single-phase interface as shown below

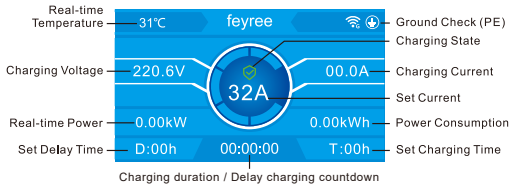


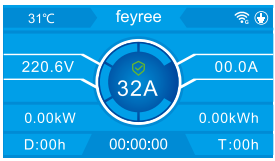
Three-phase interface as shown below



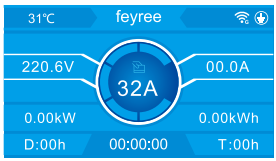
Control Box LCD Display

Single-phase

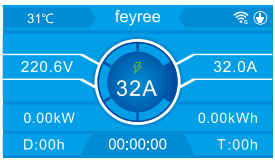




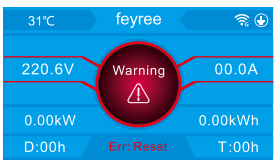
Ready to Charge



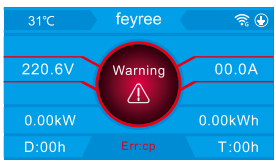
Swipe RFID Card



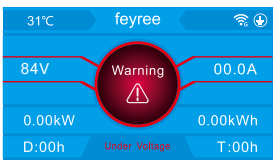
Charging



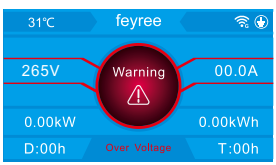
EMERGENCY STOP



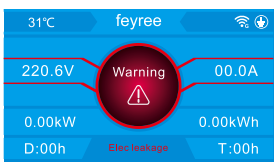
Signal Failure



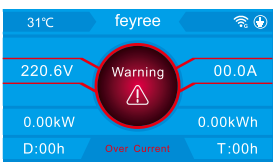
Under Voltage



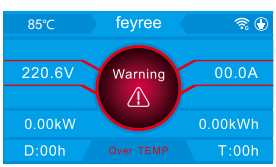
Over Voltage



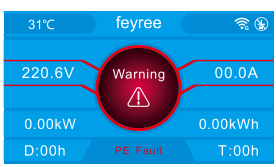
Leakage



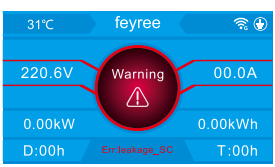
Over Current



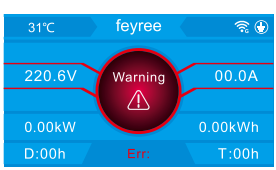
Over TEMP



Missing of PE Protection



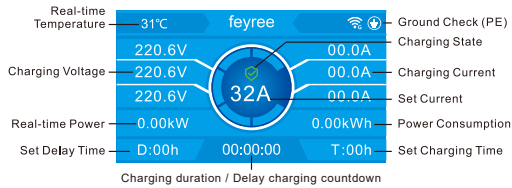
Leakage self check

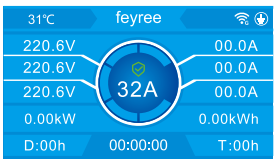


Relay self check

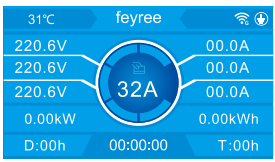
Control Box LCD Display

Three-phase

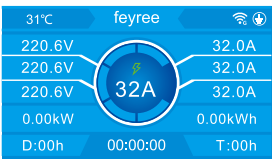




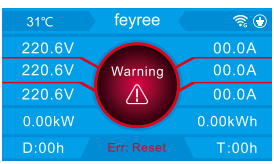
Ready to Charge



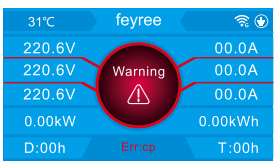
Swipe RFID Card



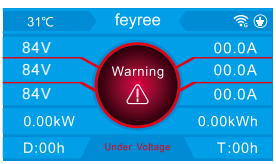
Charging



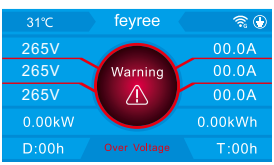
EMERGENCY STOP



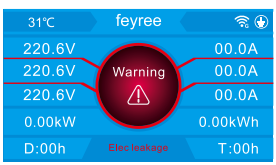
Signal Failure



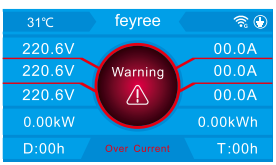
Under Voltage



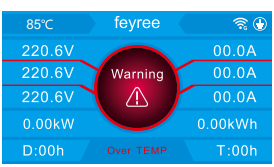
Over Voltage



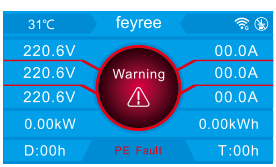
Leakage



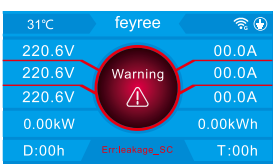
Over Current



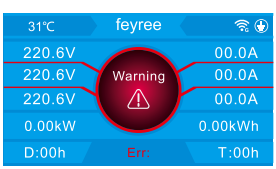
Over TEMP



Missing of PE Protection

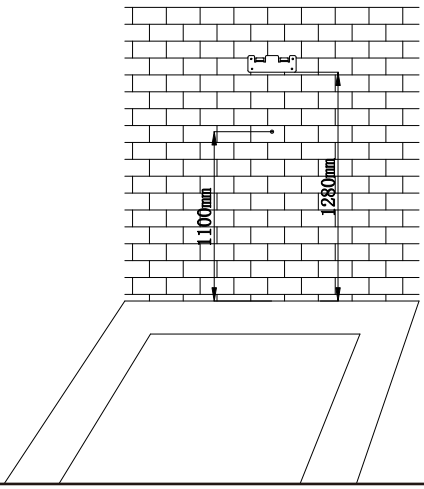


Leakage self check

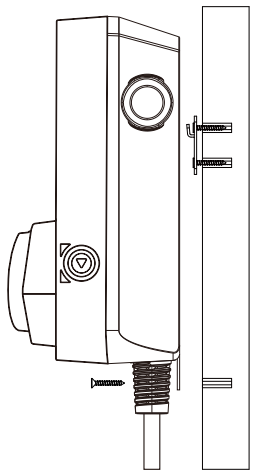


Relay self check

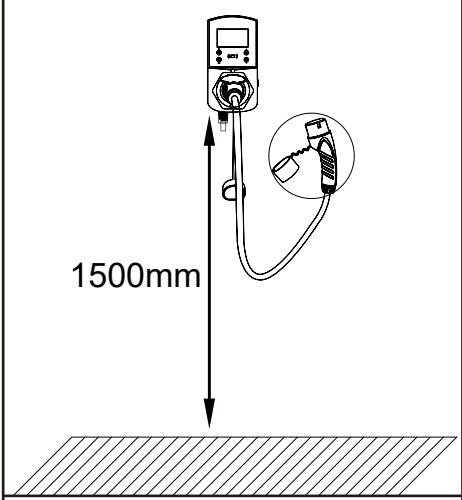
Installation and operation instructions



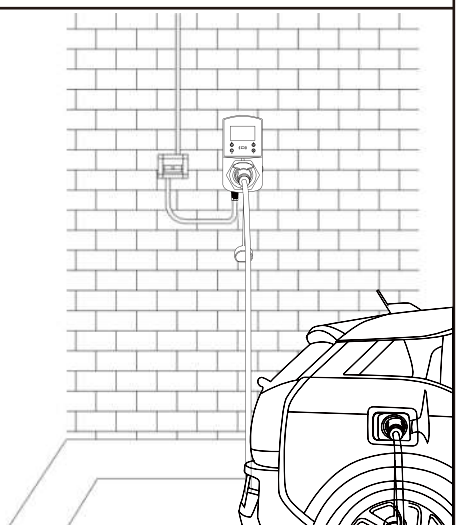
Step 1：According to the position of the holes on the metal Back mounting bracket, use an electric driller to drill holes in the corresponding positions . Please refer to the height in the photo below to determine the charger installation height. then put the expansion tube in the hole , and then use long screws fix the metal mounting bracket on the wall.



Step 2：After fixed the metal bracket to the wall, hang the charger on the bracket while using the screws to fix the Metal bracket underneath the charger to the wall.



Step 3：Install the charging plug holder in the position shown in the pics above



Step 4：Connect the power supply and make sure the charger can work properly

Common Troubleshooting

Fault name	Reason for failure	Recommendations
Over Voltage	AC input voltage is too high	1. Ask an electrician measure the input voltage of the charger's power distribution box
		2. If the actual voltage is over 264V for a short time, wait for the power system to restore itself to the normal voltage range.
		3. If the actual voltage is over 264V for a long time, please contact the local power supply department
		4. If the actual voltage of the electrical system in your home is less than 264V, please contact us;
Under Voltage	AC input voltage is too low	1. Ask an electrician measure the input voltage of the charger's power distribution box
		2. If the actual voltage is less than 85V for a short time, wait for the power system to restore itself to the normal voltage range.
		3. If the actual voltage is less than 85V for a long time, please contact the local power supply department
		4. If the actual voltage of the electrical system in your home is over 85V, please contact us;
Over Current	AC input current is too high	1.Cut off the power of the charger's power distribution box right away
		2.Check the charging plug for foreign objects and the car's on-board charger for abnormalities
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Over TEMP	Charger internal temperature greater than 85°C	1.Check that there is no other heat generating equipment or devices next to the charging station and make sure that the ambient temperature is below 50°C.
		2.If the problem cannot be solved, please contact us
Elec leakage	Leakage is greater than the following values: TypeA:(60Hz)AC20mA/ (50Hz)AC30mA TypeB: AC 30mA+DC 6mA	1.Cut off the power of the charger's power distribution box right away
		2.Check the charging plug for foreign objects and check the car for electrical leakage
		3. After troubleshooting the above problems, Reset leakage protector, reconnect the power supply, if the fault still exists, please contact us
Leakage self check	The sensor for detecting leakage is abnormal	1.Cut off the power of the charger's power distribution box right away
		2.Check whether the output cable of the charging station is broken or connected to ground
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
PE Fault	Poor grounding or incorrect wiring	1.Cut off the power of the charger's power distribution box right away.
		2.Check if the charging station is grounded properly.
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Err:cp	Charging plug CC/CP connection abnormality	1.Check if the wiring of the charging plug is correct
		2. After troubleshooting the above problems, if the fault still exists, please contact us
Err:Reset	Reset button is pressed	1.Check if the red button on the right is pressed, if it is pressed, rotate it back to reset.
		3.After troubleshooting the above problems, if the fault still exists, please contact us

Charging Status and Indicator Light

Charging Status	Green Light	Blue Light	Red Light	Description
Ready	Ever-bright	/	/	Power-up for self-test or reset
Connect	Flashing	/	/	Detection point 1 voltage is 9 ± 0.8 V.
Charging	/	Breathing	/	Detection point 1 voltage is 6 ± 0.8 V,relay closed
Finish	/	Ever-bright	/	Charging finished
Err:CP	/	/	Flash 1 time(0.5S)	Detection point 1 voltage is 9.8V<U<11.2V; 6.8V<U<8.2V; 12.8V<U or U<5.2V; relay opened
Under Voltage	/	/	Flash 2 time(0.5S)	Single-phase: voltage <85V , Three-phase: <304V
Over Voltage	/	/	Flash 3 time(0.5S)	Single-phase: voltage > 264V, Three-phase: > 457V
Elec Leakage	/	/	Flash 4 time(0.5S)	Relay is opened, it will be closed if re-powered after troubleshooting,
Over Current	/	/	Flash 5 time(0.5S)	The line current keep at Ie+2<I≦Ie+4 for 5 seconds, the relay is opened, then restarted automatically after 10 seconds. It will permanently disconnect after three repetitions. At I> Ie+4, the relay is disconnected and the charging is finished.
Over Temp	/	/	Flash 6 time(0.5S)	Temperature > 85°C, the relay is opened. When the temperature is < 65 °C, charging restarts.
Err:Reset	/	/	Flash 7 time(0.5S)	Emergency stop button is pressed, the relay is opened, and it is allowed to close only after the fault is solved

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Customer Service Team

E-mail: tina@feyree.com

Warranty

Two-Year Warranty

feyree offers two-year warranty to customers who make purchased original feyree product.

Lifetime Technical Support

In case of any product-related issues, we encourage you to reach out to us, providing pictures and videos for further assistance.

Exclusions

The warranty does not cover:

- Any product damage resulting from failure to follow the recommended guidelines.
- Damage caused by unauthorized disassembly of the machine or seeking maintenance from a non-designated service center.
- Purchased not original feyree products.
- Any modifications or do-it-yourself alterations carried out without guidance from a licensed electrician.

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; (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 and uses can radiate radio frequency energy, 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.

Note:The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance.such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meetgeneral RF exposure requirement.
To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body,and fully supported by the operating and installation configurations of the transmitter and its antennas.



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