EV Charging Station Manual

Feature

Charging plug meets IEC 62196-2 standard.
Control box meets IEC 61851 control principle.
IP65 weather protection
Operating temperature: -30℃ to 55℃.

Mechanical Properties

Mechanical life: no-load plug in/pull out >10000times
Impact of external force: can handle 1m drop and 2T vehicle run over pressure

Electric Performance

Rated voltage, current and power:415V AC 8A 10A 13A 16A /11KW
TypeA+DC 6mA RCD
Insulation Resistance: >1000MD (DC500V)
Terminal Temperature Rise: <50K

Control Box Function

Leakage protection (restart recover).
Over voltage under-voltage protection (self-checking recover).
Lightning protection.
Over current protection.
Overheat protection.
Ground protection.

Charger Cord

Specification: TPE 5G2.5mm²+1*0.75mm²

Cautions

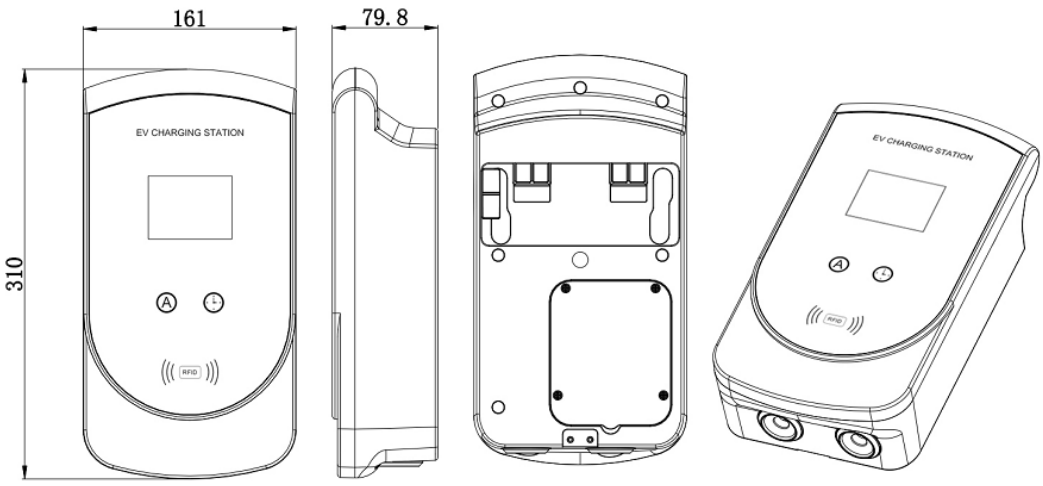
· Do not bring dangerous items such as flammable, explosive or combustible

materials, chemicals, flammable steam, etc. near the wall charger.

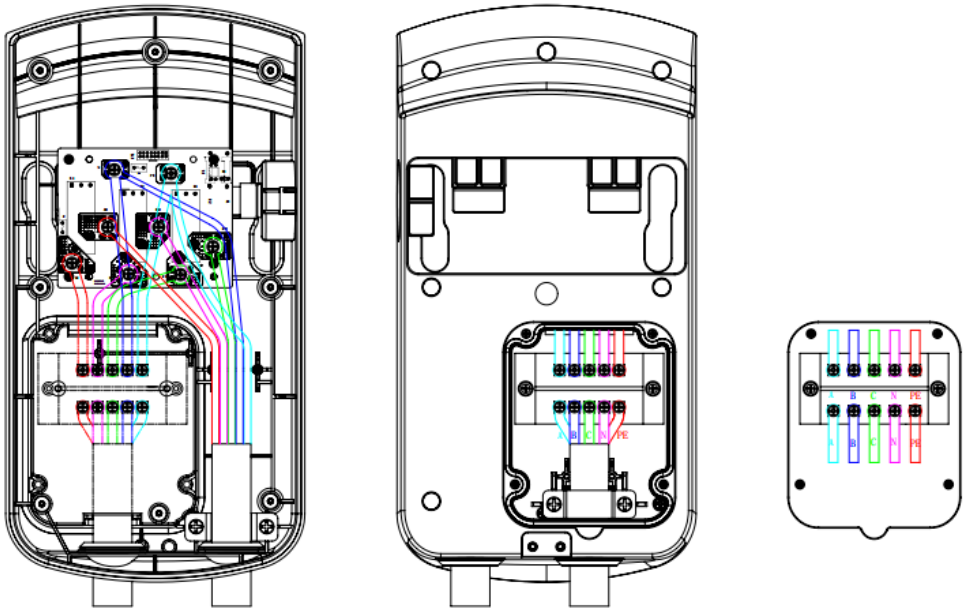
- Keep the charging gun head clean and dry. If it is dirty, wipe it with a clean dry cloth. It is strictly forbidden to touch the charging gun core with your hands when it is powered.
- It is strictly forbidden to use the wall charger when the charging gun or charging cable is defective, cracked, worn, broken, or the charging cable is exposed.
- Do not attempt to disassemble, repair, or modify the charger. If there is a need for maintenance or modification, please contact the seller. Improper operation may cause damage to the equipment, water leakage, leakage, etc.
- If there is any abnormality during use, press the emergency stop button immediately to cut off all input and output power supplies.
- In case of rain and thunder, please be careful.
- Children are not allowed to approach or use the wall charger during the charging process to avoid injury.
- During the charging process, the vehicle is prohibited from driving and can be charged only when it is stationary. Please turn off the car before charging.
- Do not use the device in extreme temperatures (normal operating range (-30℃ to 55℃).
- The power supply input cable should have at least 5G2.5mm². It must be installed by professionals.

Product structure

Outline drawing

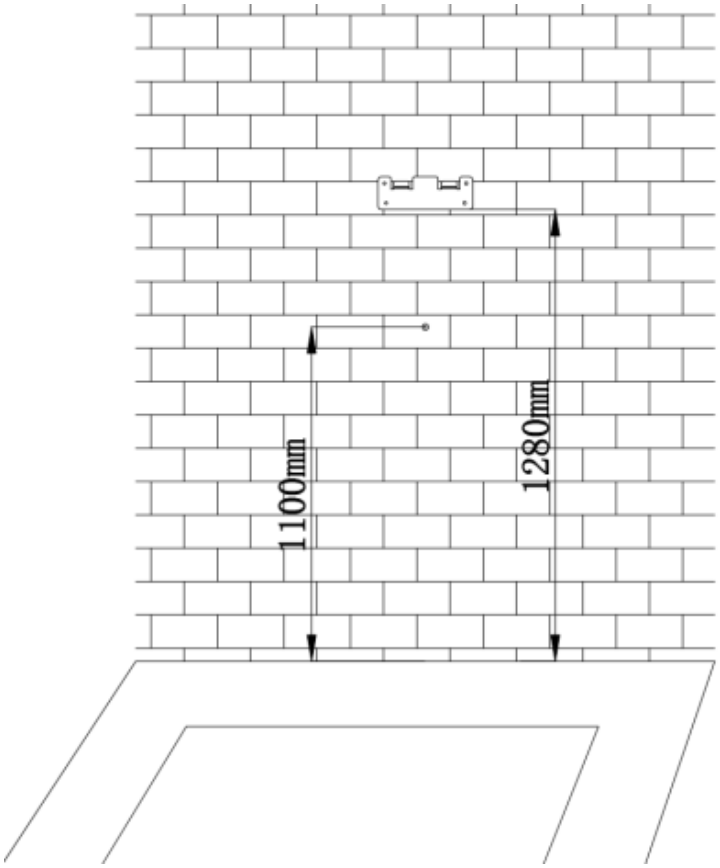


Internal structure

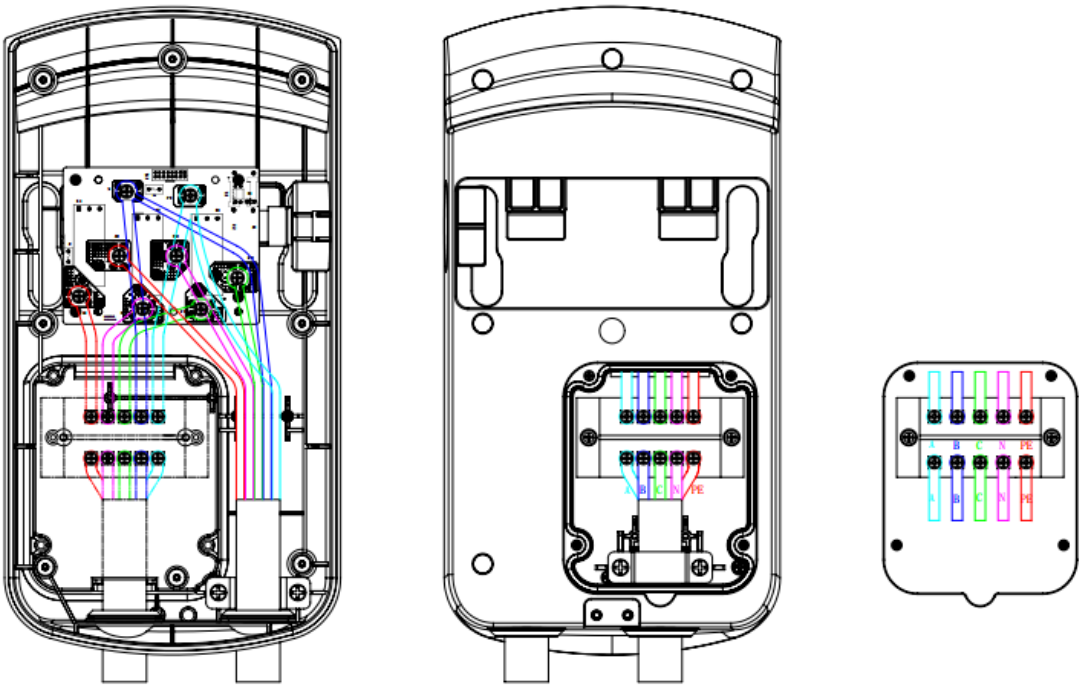


Installation process

1) Wiring and installing the wall bracket

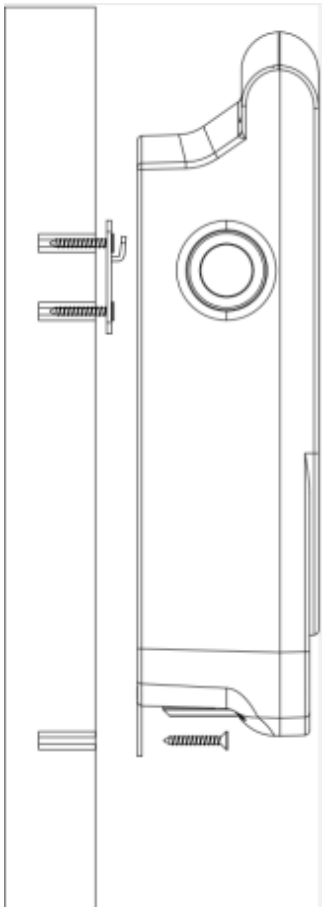


2) Installation of charger inlet

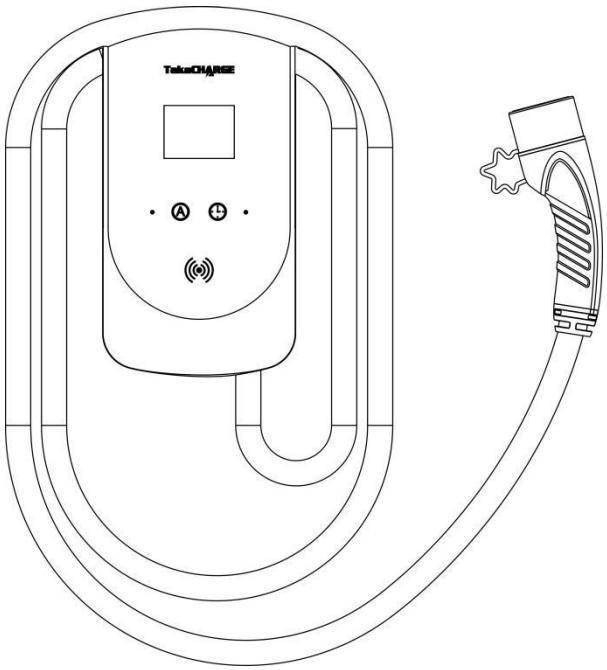


3) Wall-mounted installation and fixing

Hang the mounting holes on the back of the device into the fixing screws on the wall from the front, and fix them.



4) When installation is complete, it should look like this:



Power-on inspection and debugging

1) Check before operation

Before running, please check carefully and ensure the following:

- The installation position of the AC wall charger is convenient for operation and maintenance
- The AC wall charger and accessories are correctly connected and installed firmly
- Reasonable selection of leakage protection switch for AC inlet
- No external objects or parts are left on the top of the AC wall charger

2) Power on the device

1. Make sure that the above inspection items before operation meet the requirements
2. Close the power inlet leakage protection circuit breaker
3. Power on the AC wall charger: There is about 5 seconds of power-on self-check time, and the green indicator light flashes.
4. After the power-on self-check is completed, observe the status of the LED indicator.

● **Normal standby: the green light is always on**

● **Equipment failure: the red light flashes according to the failure report**

How to enable and disable the RFID lock function: The touch key at the leftmost end of the equipment panel controls the lock function. When you need to enable or disable the RFID lock function, please long press the key for 5 seconds. When prompted to authorize the card swiping to open or close, complete the card swiping operation as required to complete the change.

Description of equipment cumulative power:

The charger screen will display the power consumption in two ways: during a charging session the display will show the charger power amount for the session; When the charging gun is not inserted, the historical accumulated power consumption will be displayed.

App control

1）Download application

Download the Tuya Smart App in the app store

Tuya Smart

2）Configure the charging device network

Please make sure that the charging device and the mobile phone are under the same WIFI network (Nonsupport WIFI in 5G),and you are near by the charger. When the device is turned on, the WIFI state is displayed as follows:

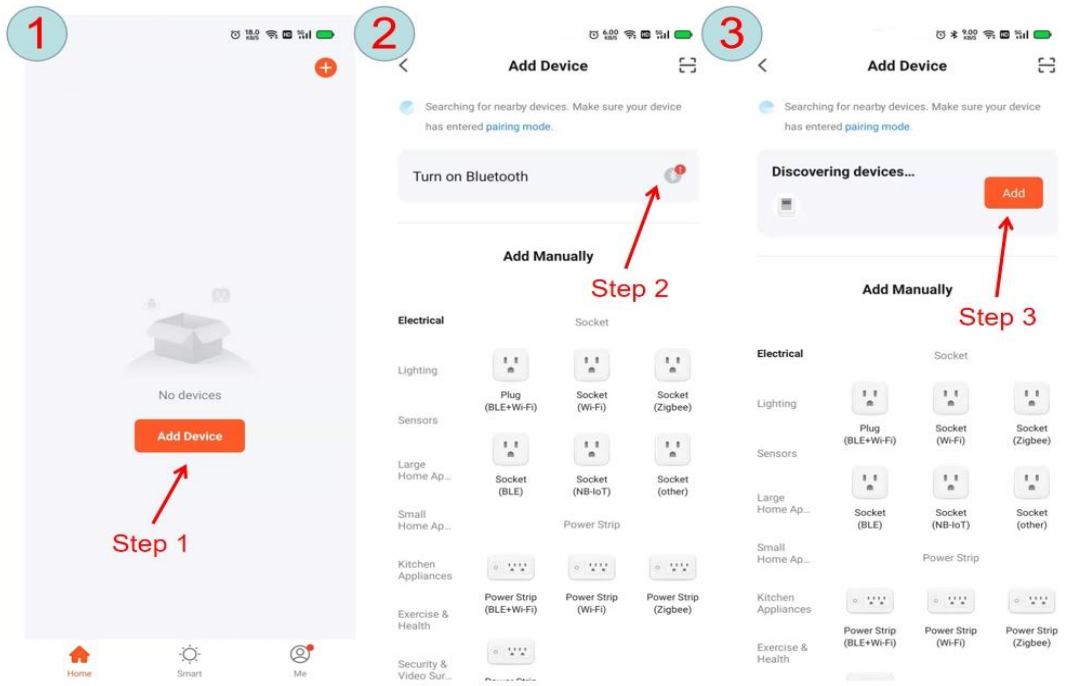
Waiting for distribution network operation

connected to the internet

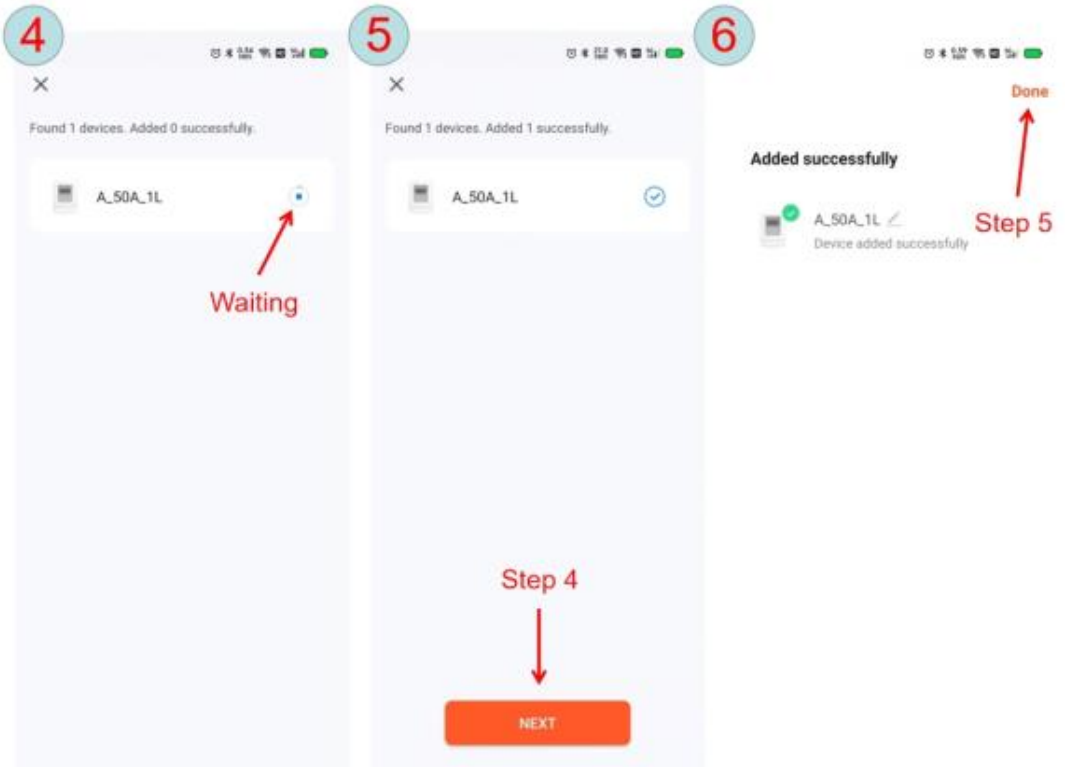
not connected to the internet

How to connect the charger to WiFi

1. The phone will connect to the charger via Bluetooth, to do the initial WiFi setup. Open the Tuya smart App, touch the plus sign in the upper right corner， auto scan，enable permissions， found device， like the following：

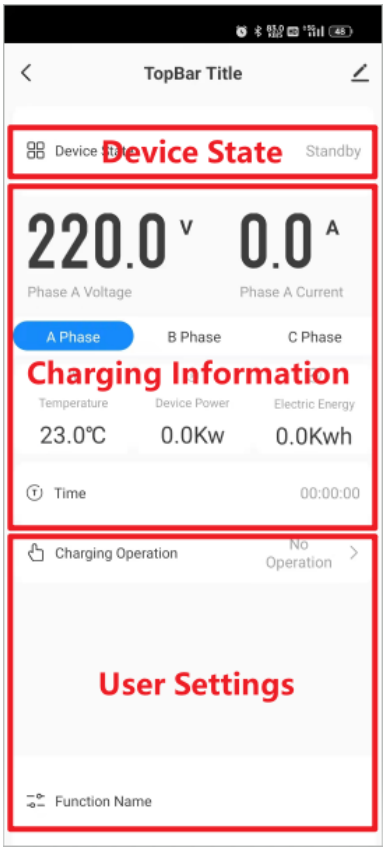


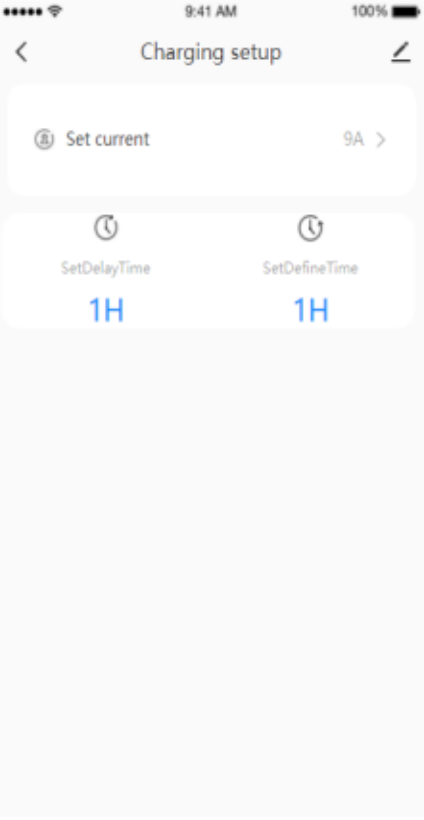
2. Enter your working WiFi and password, wait for the charging device to be successfully connected and added, and enter the app charging display interface



3. In case of timeout or failure, please check whether the WIFI network has been connected to the network and the router works in 2.4G frequency band or the Bluetooth connection fails because the mobile phone device is too far away from the charging device. In case of the above, the network distribution can be successful by repeating the above operations. If the problem still cannot be solved, please contact customer service for handling.

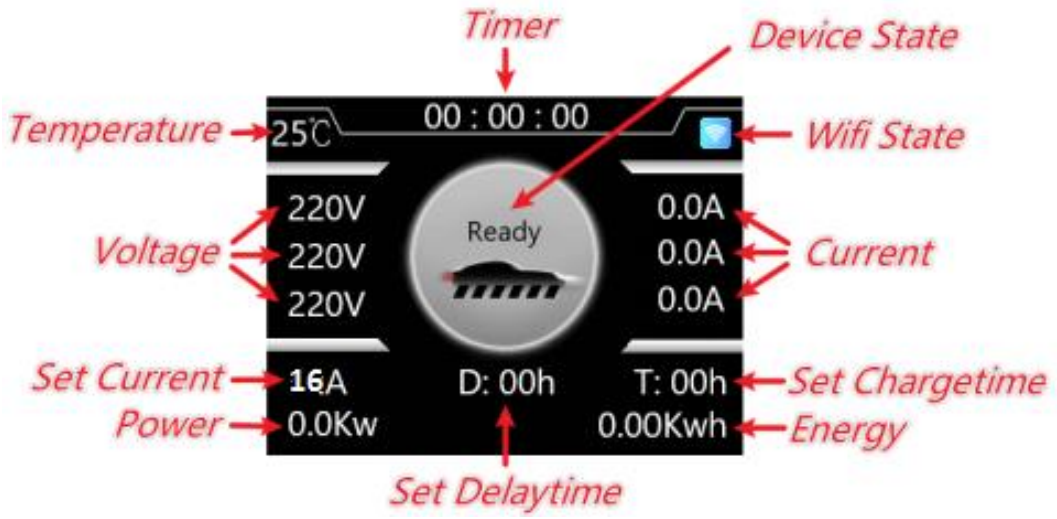
3） APP charging interface





Please make sure that the charging gun is inserted into the vehicle before starting charging. In the icon in the upper right corner of the charging display interface, there are functions such as equipment information, offline reminder, sharing equipment, etc. Users can operate by themselves if they need to use it. Note: After clicking the Remove Device button at the bottom, the network needs to be re-allocated, which can be done when changing the home WIFI password or changing the device user.

Led Screen Description:



Charging status description

Serial number	charging	Green	Blue	Red	Definition description
1	Ready	On	Off	Off	Power-on self-test or reset
2	Connect	Flash	Off	Off	The voltage of detection point 1 is 9±0.8V,
3	Charging	Off	Pulsating	Off	Detection point 1 voltage is 6±0.8V, the relay is closed
4	Finish	Off	On	Off	
5	Err:CP	Off	Off	Fault (0.5s) 1 time	The voltage of detection point 1 is 9.8V<U<11.2V; 6.8V<U<8.2V; 12.8V<U or U<5.2V; the relay is off
6	Over Voltage	Off	Off	Fault (0.5s) 3 time	Single phase: voltage>264V
7	Elec Leakage	Off	Off	Fault (0.5s) 4 time	The relay is disconnected, and it needs to be re-powered after the fault is removed before the relay is allowed to close
8	Over Current	Off	Off	Fault (0.5s) 5 time	When the line current is Ie+2<I≦Ie+4, 5S, the relay is disconnected, and it will automatically restart after 10S. Repeat three times for permanent disconnection. When I> Ie+4, the relay is disconnected, and the charging ends
9	Over Temp	Off	Off	Fault (0.5s) 6 time	Temperature>85 degrees, disconnect the relay, wait for the temperature <65 degrees, then turn on charging
10	Err:Reset	Off	Off	Fault (0.5s) 7 time	When the emergency stop button is pressed, the relay is disconnected. After the fault is removed, the relay is allowed to close