



EV Charging Station Manual

It is recommended to read the instructions before use

Catalog

Safety instructions

Safety instructions	1
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Product Overview

Product Overview	2
------------------	---

Product parameters

Type 2 Parameter introduction	3
Type 1 Parameter introduction	4
GB/T Parameter introduction	5
TS-NACS Parameter introduction	6

Operating Instructions

Charging steps

Standby status	7
Waiting for card swipe status	7
Start-up device	8
Start charging	9
Stop charging	9

Key operation instructions

How to set the charging current	10
How to set time delay charging	11
How to set up regular charging	11
How to access the menu page	12
Menu page basic key operation	12
Load Balancing Page	17
How to use the App	18

Control Box LCD Display	19
-------------------------	----

Installation and operation instructions

Installation operation	22
------------------------	----

Common Troubleshooting

Common Troubleshooting	23
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Charging Status and Indicator Light

Definition of Indicator Light	24
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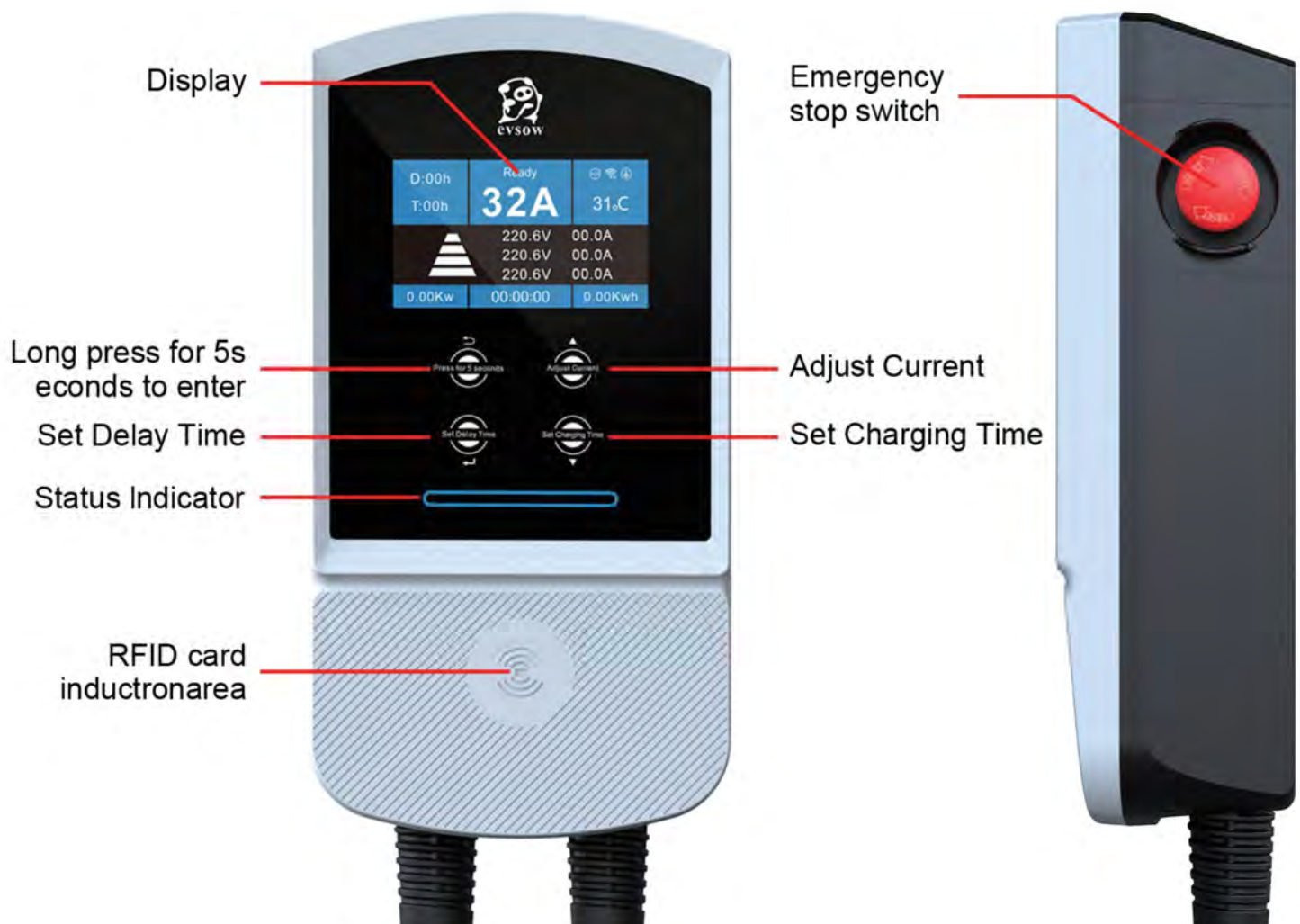
Safety instructions

-  **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 :** Keep the charging plug head clean and dry, if dirty, please wipe it with a clean and dry cloth, it is strictly forbidden to touch the charging plug core by hand when it is charged
-  **Warning:** It is strictly forbidden to use the charging station when the charging plug or charging cable is defective, cracked, worn, broken or when the charging cable is exposed
-  **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 product, press the emergency stop button immediately to cut off all input and output power
-  **Warning :** The use of the charging post is prohibited in the following cases and the manufacturer should be contacted immediately:
 - * Charging Station shell is broken
 - * When the charging cable on the charging station is damaged, cracked, frayed, broken, etc.
 - * Lightning strikes charging station
 - * Accidents or fires near charging stations
 - * Water in the charging station
 - * The length of the charging cable on charging station is not long enough to connect to the car, an extension cable needs to be installed

Product Overview

Brief description :

This product is used for electric vehicle AC charging, the product design is highly simple, divided into Type2, Type1, GB/T , Tesla four kinds of specifications. It is equipped with swipe card and plug-and-play charging methods and multiple safety protection functions. with good dustproof and waterproof function, can be operated safely outdoor.



Type 2 Parameter introduction

Type2 IEC61851														
Power Rating	7.6KW					11KW					22KW			
Load balancing	/	/	●			/	/	●			/	/	●	
APP	/	●	●			/	●	●			/	●	●	
RFID Card	/	●	●			/	●	●			/	●	●	
Type A RCD	●	/	●	/	/	●	/	●	/	/	●	/	●	/
Type B RCD	/	●	/	●	●	/	●	/	●	●	/	●	/	●
Power supply system	Single Phase					Three Phase					Three Phase			
Rated voltage	85V-264V					380V±20%					380V±20%			
Rated current	8-10-13-16-20-25-32A					8-10-13-16A					8-10-13-16-20-25-32A			
Input Frequency	50Hz/60Hz					50Hz/60Hz					50Hz/60Hz			
Protection level	IP65					IP65					IP65			
Working temperature	-35°C ~ +55°C					-35°C ~ +55°C					-35°C ~ +55°C			
Storage temperature	-40°C ~ +80°C					-40°C ~ +80°C					-40°C ~ +80°C			
Standby power	<3W					<3W					<3W			
Working humidity	5% ~ 95% non-condensation					5% ~ 95% non-condensation					5% ~ 95% non-condensation			
L*W*H	310*161*86 mm					310*161*86 mm					310*161*86 mm			
Cable Specification	3G 6mm ² +1*0.5mm ² 3G 6mm ² +2*0.5mm ²					5G 2.5mm ² +1*0.5mm ² 5G 2.5mm ² +2*0.5mm ²					5G 6mm ² +1*0.5mm ² 5G 6mm ² +2*0.5mm ²			

Control box function :

1. Earth 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. Charging plug according to IEC 62196-2 standard
2. Charging control box in accordance with IEC 61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state)>10000 times
6. External impact: Charging station's Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. With emergency stop function

Type 1 Parameter introduction

Type 1 SAE J1772														
Power Rating	7.6KW					9.6KW					12KW			
Load balancing	/	/	●			/	/	●			/	/	●	
APP	/	●	●			/	●	●			/	●	●	
RFID Card	/	●	●			/	●	●			/	●	●	
Type A RCD	●	/	●	/	/	●	/	●	/	/	●	/	●	/
Type B RCD	/	●	/	●	●	/	●	/	●	●	/	●	/	●
Power supply system	Level 1 and Level 2					Level 1 and Level 2					Level 1 and Level 2			
Rated voltage	85V-264V					85V-264V					85V-264V			
Rated current	8-10-13-16-20-25-32A					8-10-13-16-20-25-32-40A					8-10-13-16-20-25-32-40-50A			
Input Frequency	50Hz/60Hz					50Hz/60Hz					50Hz/60Hz			
Protection level	IP66					IP66					IP66			
Working temperature	-35°C ~ +55°C					-35°C ~ +55°C					-35°C ~ +55°C			
Storage temperature	-40°C ~ +80°C					-40°C ~ +80°C					-40°C ~ +80°C			
Standby power	<3W					<3W					<3W			
Working humidity	5% ~ 95% non-condensation					5% ~ 95% non-condensation					5% ~ 95% non-condensation			
L*W*H	310*161*86 mm					310*161*86 mm					310*161*86 mm			
Cable Specification	3G 6mm ² +1*0.5mm ² 3G 6mm ² +2*0.5mm ² 3G10AWG+1*18AWG 3G10AWG+2*18AWG					3G 8mm ² +1*0.5mm ² 3G 8mm ² +2*0.5mm ² 2G8AWG+1*10AWG+1*18AWG 2G8AWG+1*10AWG+2*18AWG					3G 10mm ² +1*0.5mm ² 3G 10mm ² +2*0.5mm ² 2G6AWG+1*8AWG+1*18AWG 2G6AWG+1*8AWG+2*18AWG			

Control box function :

1. Earth leakage protection (restart recovery)
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4. Overcurrent protection
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6. Grounding protection
7. RFID card function (can be set according to user needs)
8. Appointment Time
9. WIFI

Product Performance :

1. Charging plug according to SAE J1772 standard
2. Charging control box in accordance with IEC 61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state)>10000 times
6. External impact: Charging station's Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. With emergency stop function

GB/T Parameter introduction

G B / T															
Power Rating	7.6KW					11KW					22KW				
Load balancing	/	/	●			/	/	●			/	/	●		
APP	/	●	●			/	●	●			/	●	●		
RFID Card	/	●	●			/	●	●			/	●	●		
Type A RCD	●	/	●	/	/	●	/	●	/	/	●	/	●	/	
Type B RCD	/	●	/	●	●	/	●	/	●	●	/	●	/	●	
Power supply system	Single Phase					Three Phase					Three Phase				
Rated voltage	85V-264V					380V±20%					380V±20%				
Rated current	8-10-13-16-20-25-32A					8-10-13-16A					8-10-13-16-20-25-32A				
Input Frequency	50Hz/60Hz					50Hz/60Hz					50Hz/60Hz				
Protection level	IP66					IP66					IP66				
Working temperature	-35℃ ~ +55℃					-35℃ ~ +55℃					-35℃ ~ +55℃				
Storage temperature	-40℃ ~ +80℃					-40℃ ~ +80℃					-40℃ ~ +80℃				
Standby power	<3W					<3W					<3W				
Working humidity	5% ~ 95% non-condensation					5% ~ 95% non-condensation					5% ~ 95% non-condensation				
L*W*H	310*161*86 mm					310*161*86 mm					310*161*86 mm				
Cable Specification	3G 6mm ² +1*0.5mm ² 3G 6mm ² +2*0.5mm ²					5G 2.5mm ² +1*0.5mm ² 5G 2.5mm ² +2*0.5mm ²					5G 6mm ² +1*0.5mm ² 5G 6mm ² +2*0.5mm ²				

Control box function :

1. Earth 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. Charging plug according to GB/T 20234 standard
2. Charging control box in accordance with GB/T 18487 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state)>10000 times
6. External impact: Charging station's Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. With emergency stop function

TS-NACS Parameter introduction

TS-NACS														
Power Rating	7.6KW					9.6KW					12KW			
Load balancing	/	/	●			/	/	●			/	/	●	
APP	/	●	●			/	●	●			/	●	●	
RFID Card	/	●	●			/	●	●			/	●	●	
Type A RCD	●	/	●	/	/	●	/	●	/	/	●	/	●	/
Type B RCD	/	●	/	●	●	/	●	/	●	●	/	●	/	●
Power supply system	Level 1 and Level 2					Level 1 and Level 2					Level 1 and Level 2			
Rated voltage	85V-264V					85V-264V					85V-264V			
Rated current	8-10-13-16-20-25-32A					8-10-13-16-20-25-32-40A					8-10-13-16-20-25-32-40-50A			
Input Frequency	50Hz/60Hz					50Hz/60Hz					50Hz/60Hz			
Protection level	IP66					IP66					IP66			
Working temperature	-35°C ~ +55°C					-35°C ~ +55°C					-35°C ~ +55°C			
Storage temperature	-40°C ~ +80°C					-40°C ~ +80°C					-40°C ~ +80°C			
Standby power	<3W					<3W					<3W			
Working humidity	5% ~ 95% non-condensation					5% ~ 95% non-condensation					5% ~ 95% non-condensation			
L*W*H	310*161*86 mm					310*161*86 mm					310*161*86 mm			
Cable Specification	3G 6mm ² +1*0.5mm ² 3G 6mm ² +2*0.5mm ² 3G10AWG+1*18AWG 3G10AWG+2*18AWG					3G 8mm ² +1*0.5mm ² 3G 8mm ² +2*0.5mm ² 2G8AWG+1*10AWG+1*18AWG 2G8AWG+1*10AWG+2*18AWG					3G 10mm ² +1*0.5mm ² 3G 10mm ² +2*0.5mm ² 2G6AWG+1*8AWG+1*18AWG 2G6AWG+1*8AWG+2*18AWG			

Control box function :

1. Earth leakage protection (restart recovery)
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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. Charging plug according to TS-NACS standard
2. Charging control box in accordance with IEC 61851 control principle
3. Insulation resistance: >1000Ω
4. Terminal temperature rise: <50K
5. Mechanical life: Charging Plug plugging and unplugging times (Non operating state)>10000 times
6. External impact: Charging station's Plug can withstand the 1-meter drop and 2 tons of vehicle crushing
7. With emergency stop function

Operating Instructions

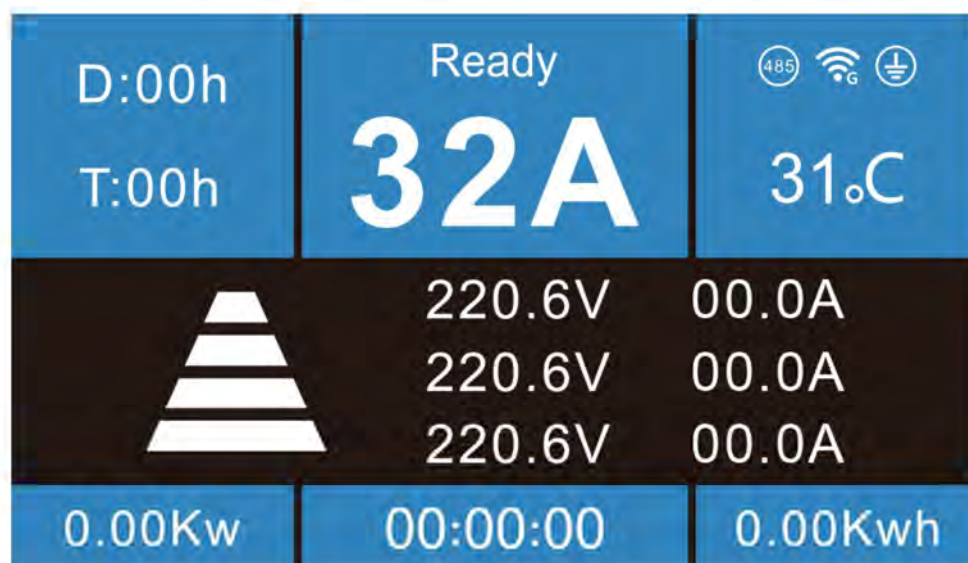
Pre-use preparation :

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 :

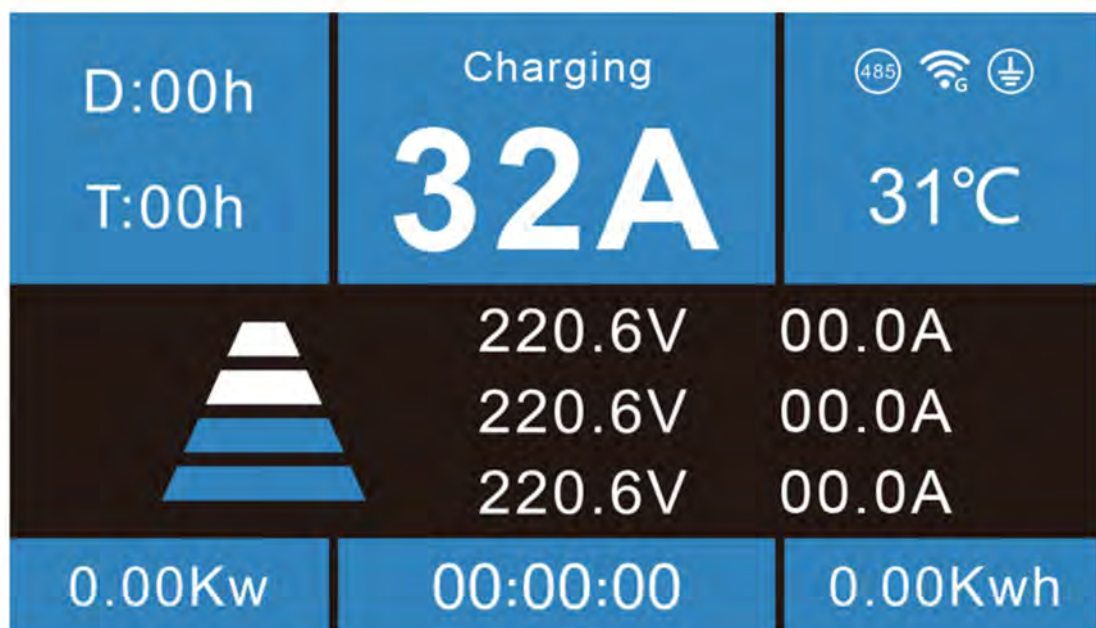
(1) Standby status

1. When the charging station is 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

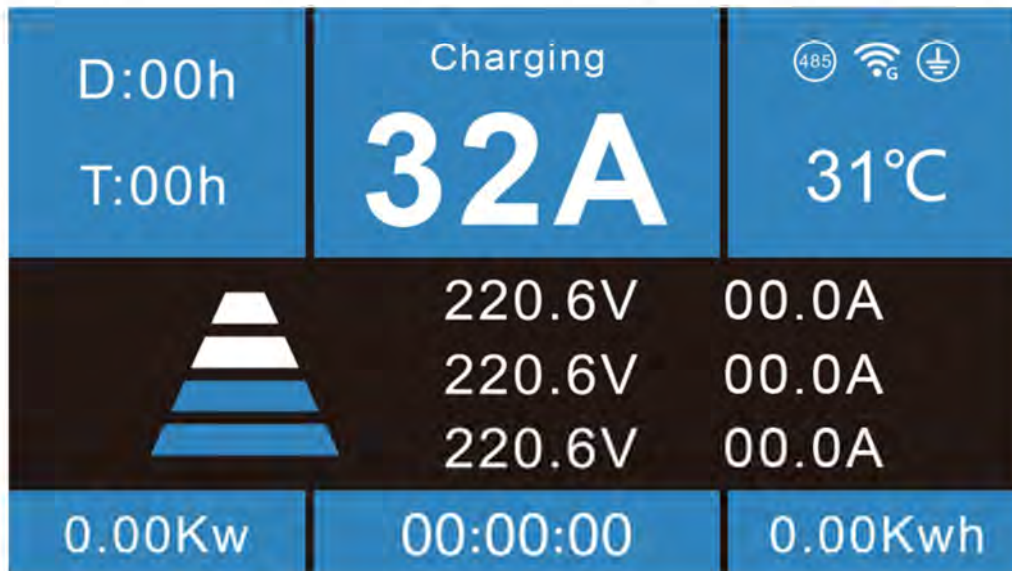
1. Use RFID cards to authorize the use of charging station

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;



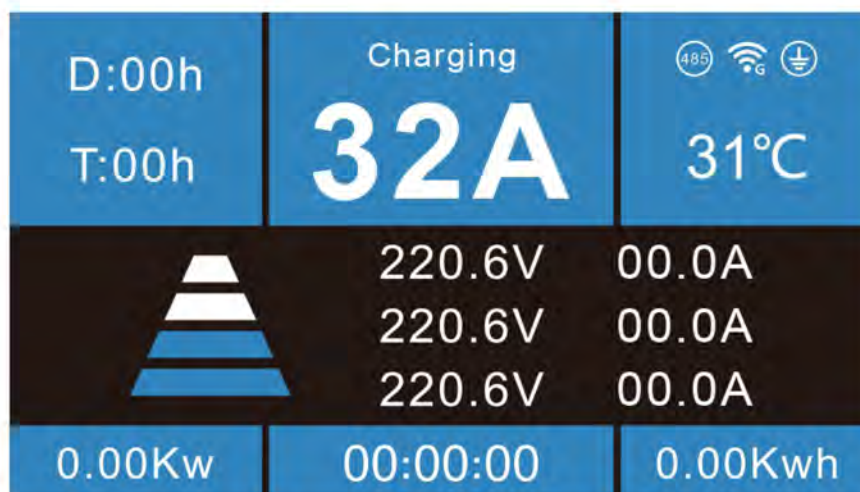
(5) Stop charging

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 modify 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 , 7KW and 22KW version can set the current of 8-10-13-16-20-24-32A, 11KW version can set the current of 8-10-13-16A.



(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 modify 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 setted. 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 setted. 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)

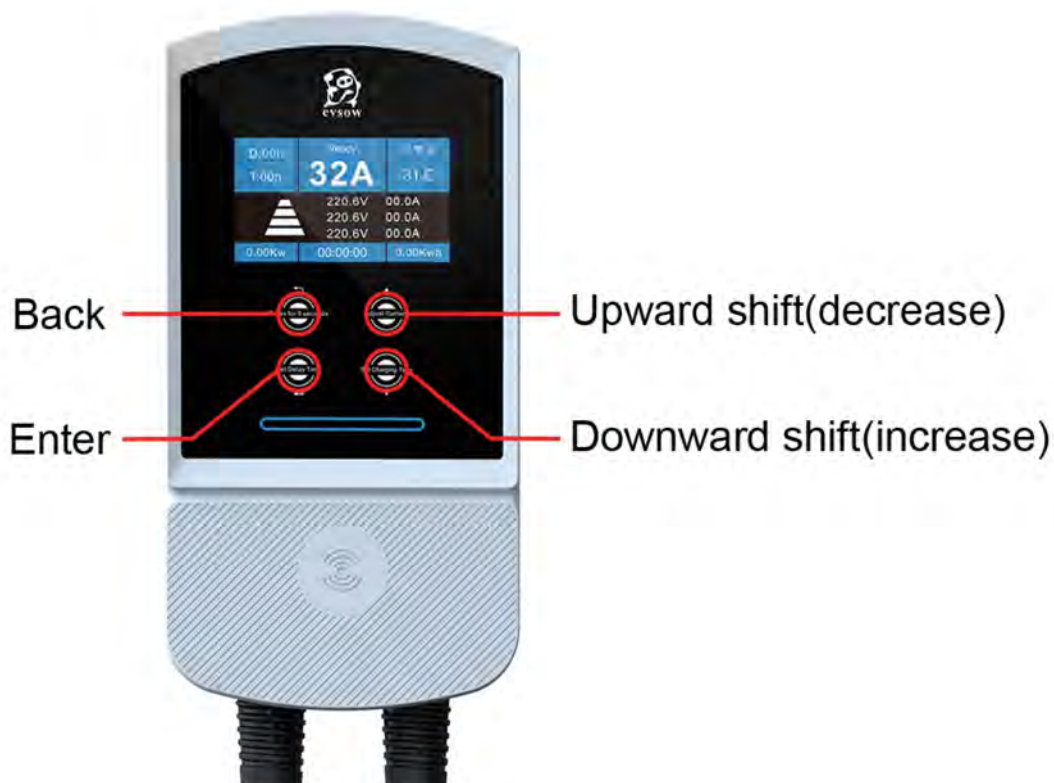
Long press for 5s
econds to enter



(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

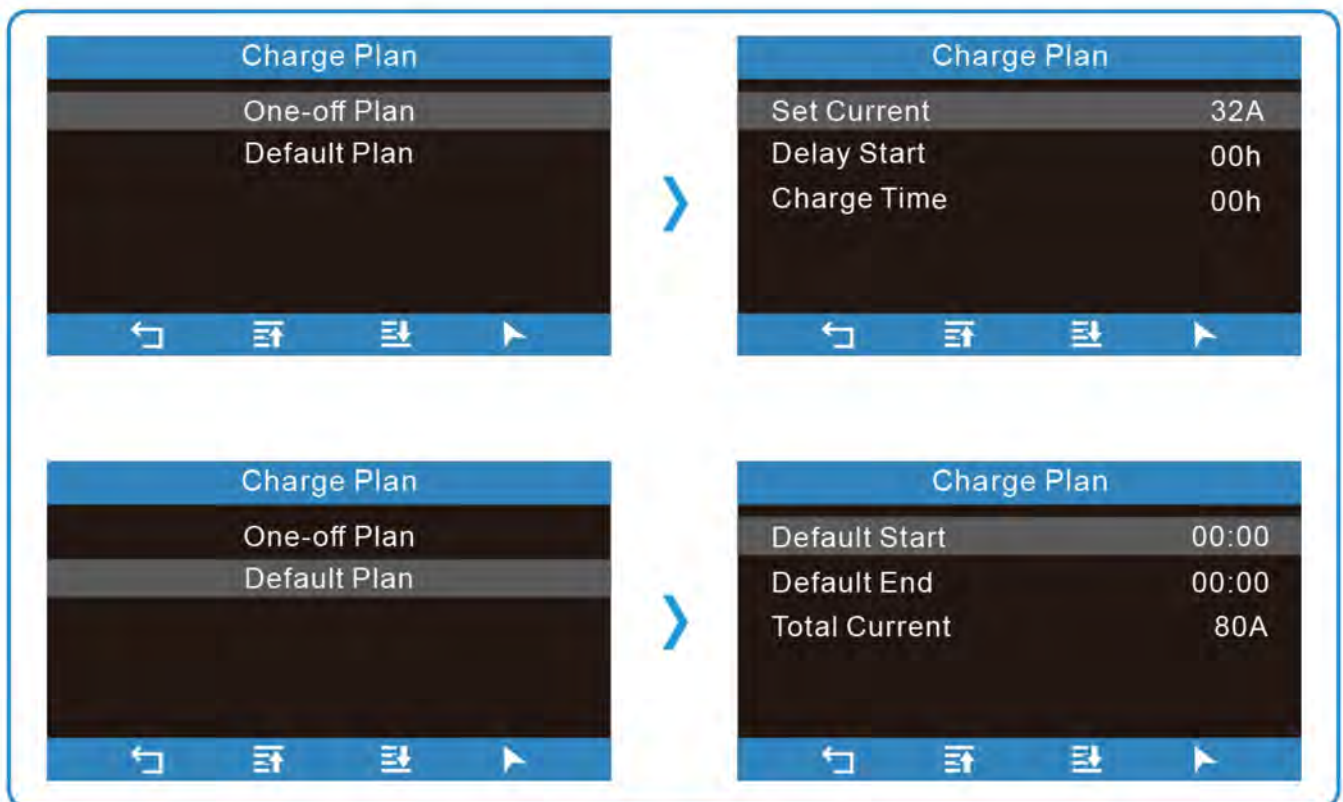
Default Plan

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 Blancing Charging station.

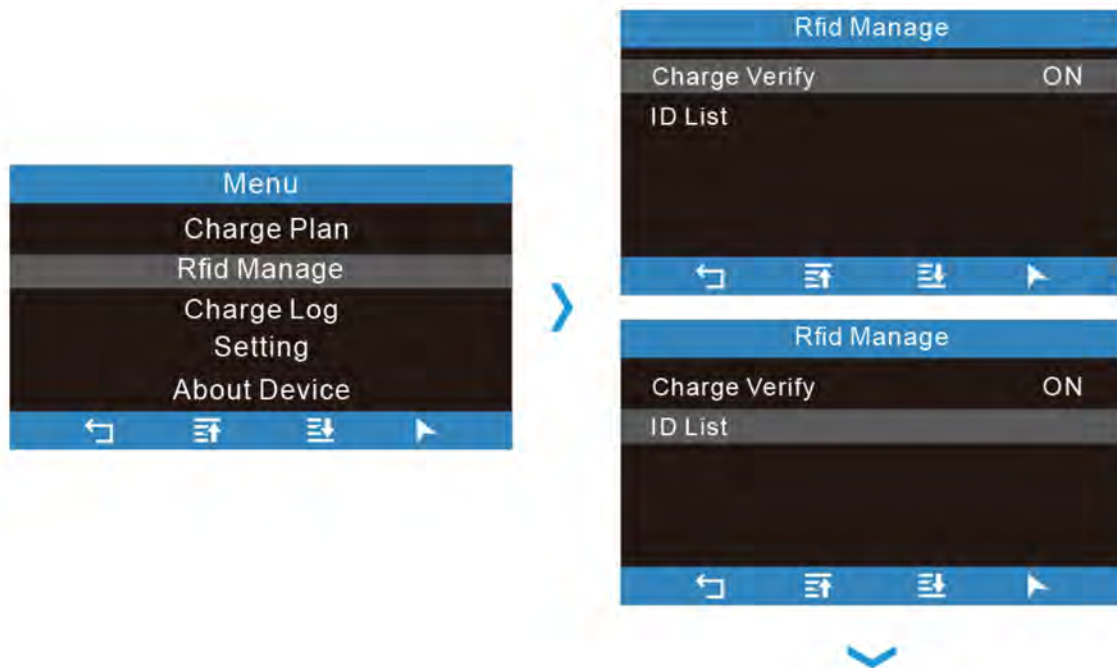


3.Menu - Rfid Manage

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 last 500 charging log

Record the last 100 charging fault log



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

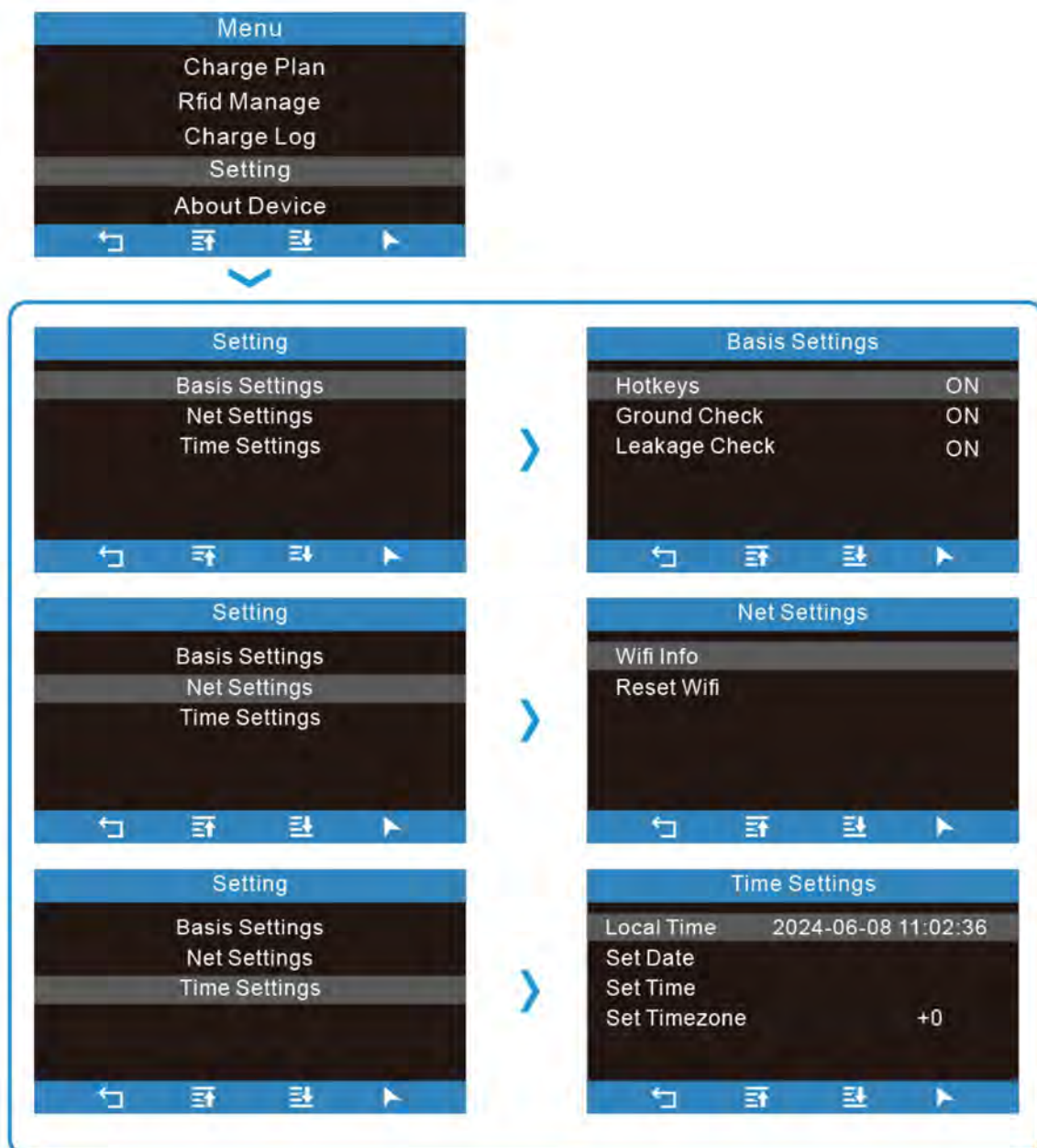
Time Settings

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



Load balancing function description

1. Introduction:

By connecting the meter to the home circuit, the current level of the home circuit is collected in real time, and the collected data information is transmitted remotely to the charging device through 485 communication. The charging equipment adjusts the current in real time by comparing the collected data with the rated current of the home circuit set by the user. When the available current is less than 6A, the device will enter the load balancing protection state. When the available current is more than 10A, the device will resume charging.

2. Prerequisites for the load balancing function to work properly:

- (1) 485 communication is correctly and reliably connected
- (2) The charging station is not on the same circuit with the smart meter but the smart meter should be on the same circuit with the household appliances
- (3) The total current set on charging stations should be less or equal to household total current

3. Set the home rated current level:

You need to follow the prompts for swipe RFID operation before entering the modification to open the home rated current setting, Settable in the range of 20A to 80A;

Total Current : Load balancing, setting the total current value of the circuit



Rated current: Setting the home circuit current rating

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



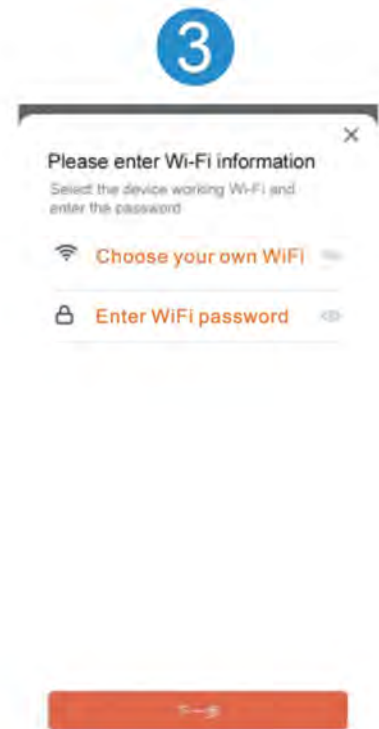
tuya smart



Smart life

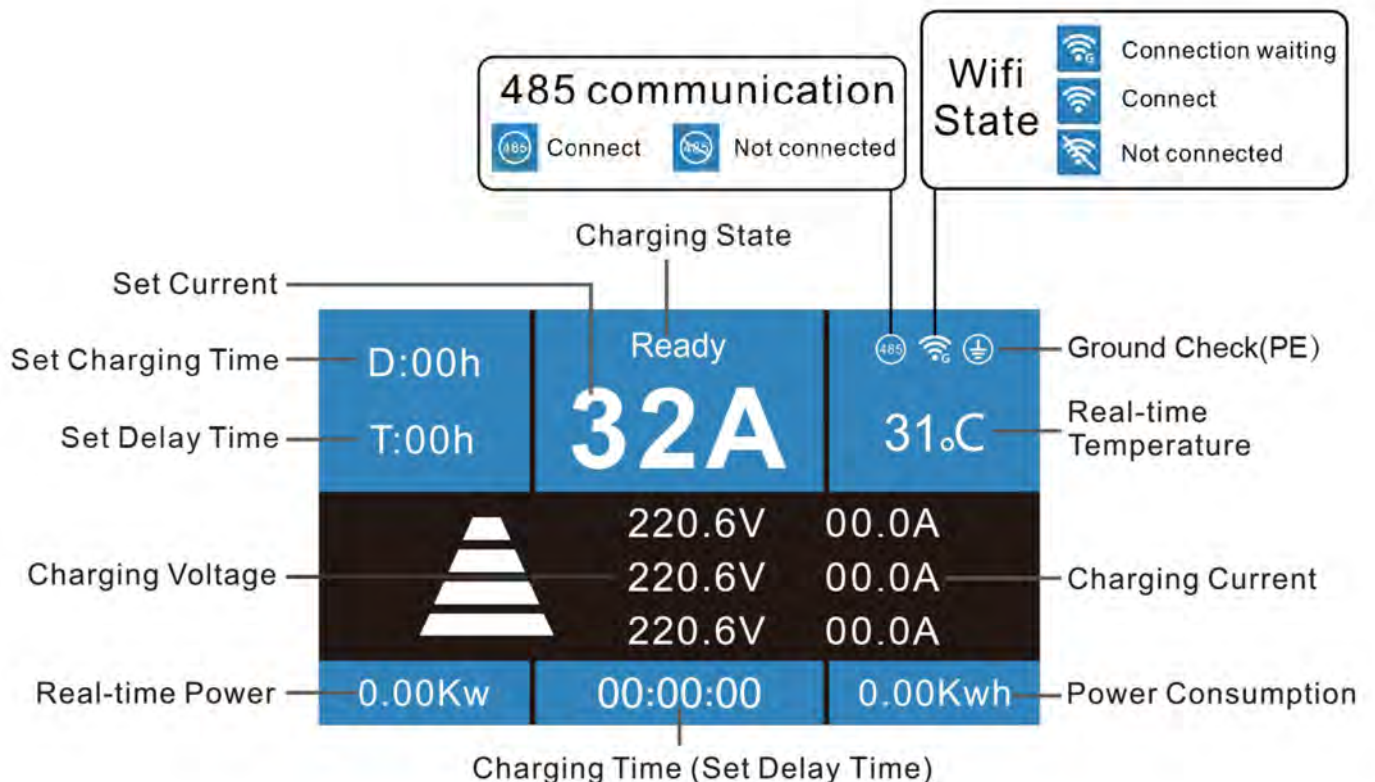
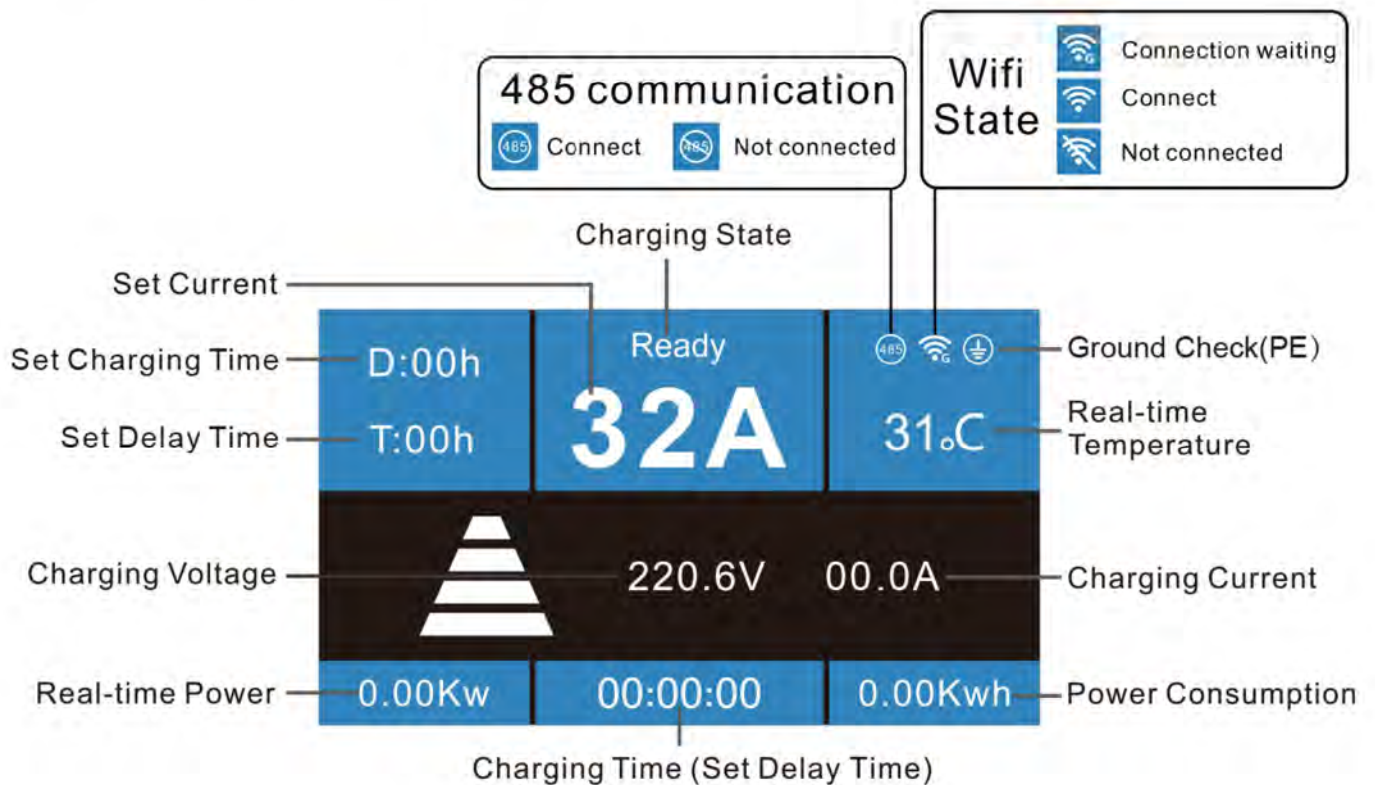
1. Please download the "Tuya Smart " or "Smart Life" App on your cell phone, the APP icon as shown above

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:



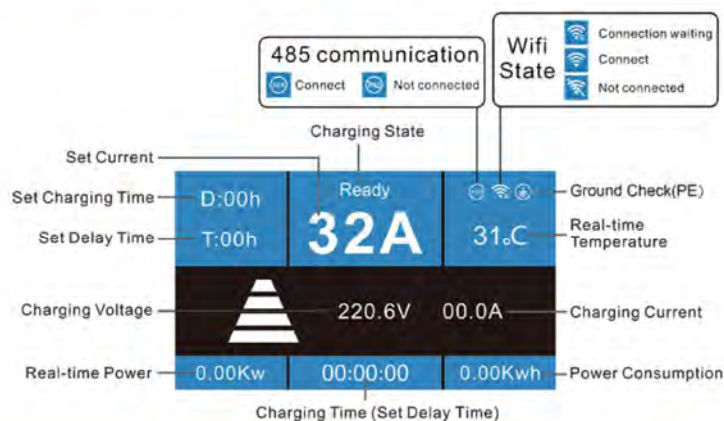
(10) Interface description (device should have Wifi or load balancing function, optional function)

7.6KW/9.6KW/12KW interface as shown below

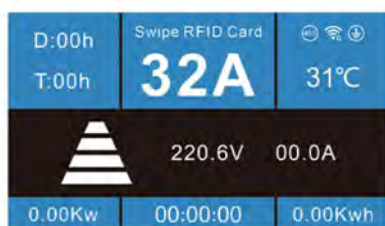


Control Box LCD Display

Single-phase



Ready to Charge



Swipe RFID Card



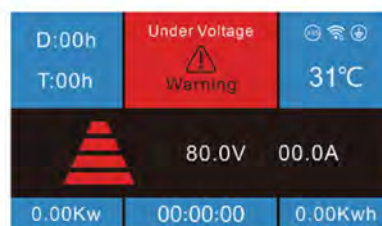
Charging



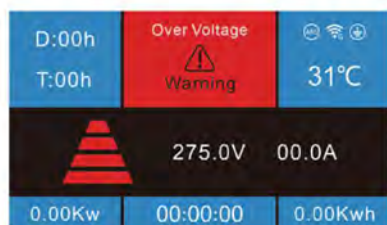
EMERGENCY STOP



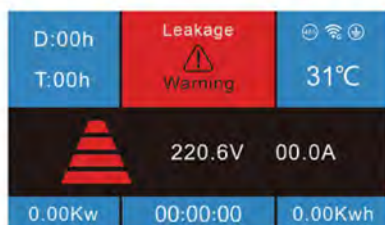
Signal Failure



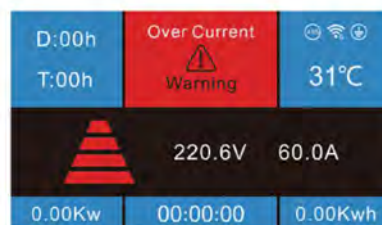
Under Voltage



Over Voltage



Leakage



Over Current



Over TEMP



Missing of PE Protection



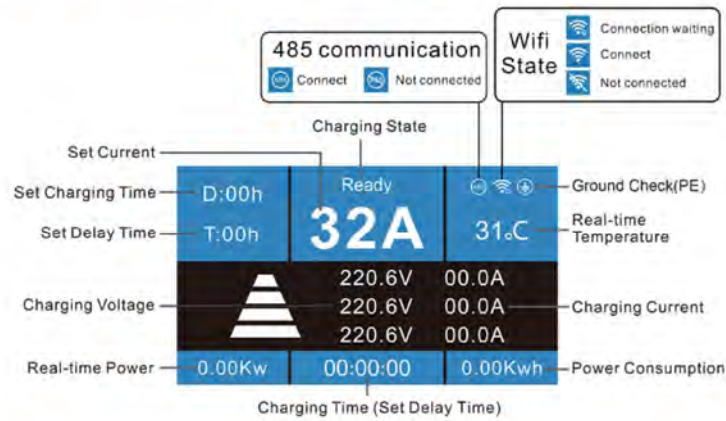
Leakage self check



Relay self check

Control Box LCD Display

Three-phase



D:00h	Ready	31°C
T:00h	32A	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Ready to Charge

D:00h	Swipe RFID Card	31°C
T:00h	32A	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Swipe RFID Card

D:00h	Charging	31°C
T:00h	32A	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Charging

D:00h	EMERGENCY STOP	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

EMERGENCY STOP

D:00h	Signal Failure	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Signal Failure

D:00h	Under Voltage	31°C
T:00h	Warning	
	80.0V	00.0A
	80.0V	00.0A
	80.0V	00.0A
0.00Kw	00:00:00	0.00Kwh

Under Voltage

D:00h	Over Voltage	31°C
T:00h	Warning	
	275.0V	00.0A
	275.0V	00.0A
	275.0V	00.0A
0.00Kw	00:00:00	0.00Kwh

Over Voltage

D:00h	Leakage	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Leakage

D:00h	Over Current	31°C
T:00h	Warning	
	220.0V	60.0A
	220.0V	60.0A
	220.0V	60.0A
0.00Kw	00:00:00	0.00Kwh

Over Current

D:00h	Over TEMP	86°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Over TEMP

D:00h	PE Fault	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Missing of PE Protection

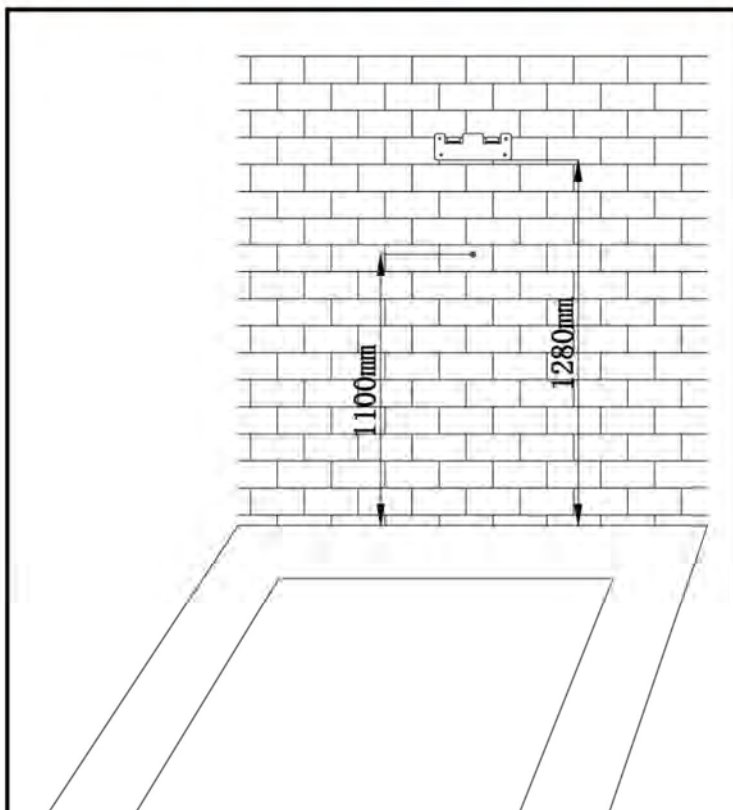
D:00h	Leakage self check	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Leakage self check

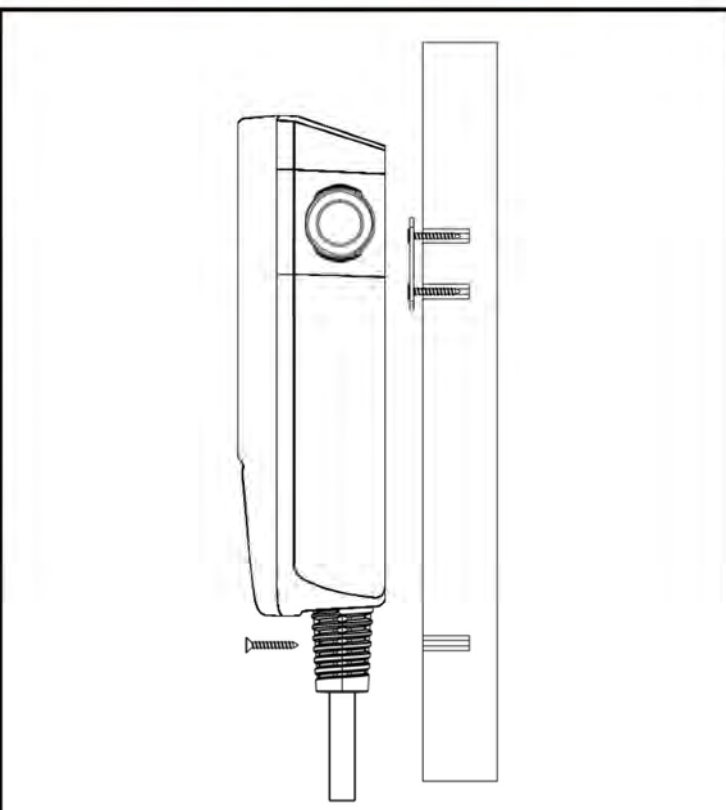
D:00h	Relay self check	31°C
T:00h	Warning	
	220.6V	00.0A
	220.6V	00.0A
	220.6V	00.0A
0.00Kw	00:00:00	0.00Kwh

Relay self check

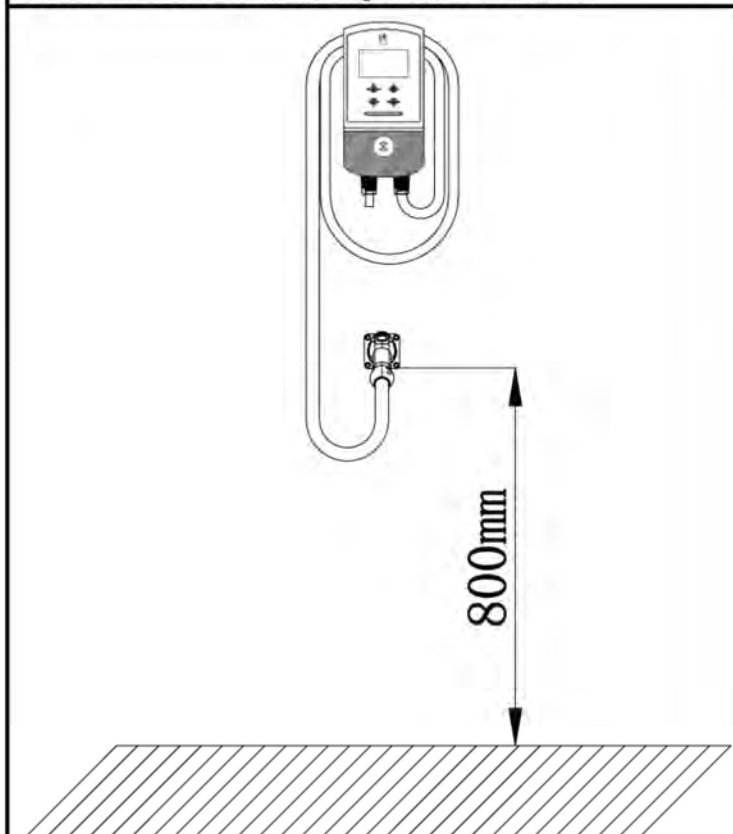
Installation and operation instructions



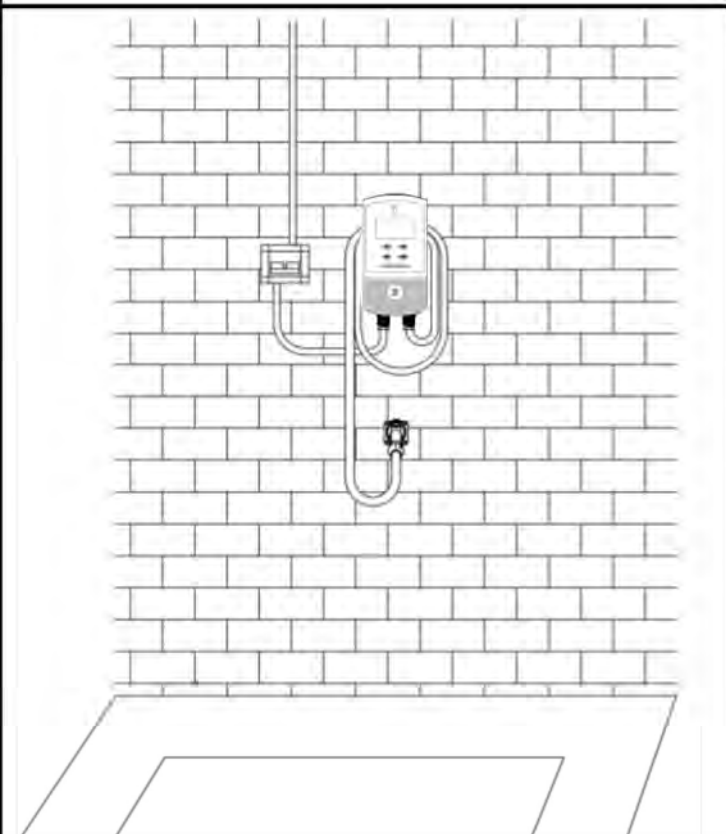
Step 1 : According to the position of the holes on the metal Back mounting bracket, use an electric driller to drill holes in the corresponding positions . Please refer to the height in the photo below to determine the charger installation height. then put the expansion tube in the hole , and then use 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	Possible causes of fault phenomena	Troubleshooting recommendations
AC overvoltage	AC input voltage is too high	1. Ask an electrician to test the input voltage of the switch
		2. If the actual voltage exceeds 264V AC for a short time, wait for the network to return to the normal voltage range on its own
		3. If the actual voltage is greater than 264V AC for a long time, please contact the power supply department
		4. If the actual voltage is less than 264V AC, please contact us
AC Undervoltage	AC input voltage is too low	1. Ask an electrician to test the input voltage of the switch
		2. If the voltage is below 176V AC for a short time, wait for the voltage to return to the normal range
		3. If the actual voltage is less than 176V AC for a long time, please contact the power supply department
		4. If the actual voltage is greater than 176V AC, please contact us
AC Overcurrent	AC input current is too high	1. Immediately disconnect the power distribution box leakage / overcurrent protection switch
		2. Check whether there is a low impedance connection between the two lines of the AC pile output line
		3. After eliminating the above problems, reapply power, if the fault still exists, please contact us
overheating	Internal temperature greater than 85 degrees	1. Check the AC pile installation environment, verify that there is no heat generating equipment or devices next to it, and ensure that the ambient temperature needs to be below 60°.
		2. If the fault cannot be eliminated, please contact us
Leakage current exceeds the standard	Leakage current greater than 30mA	1. Immediately disconnect the power distribution box leakage / overcurrent protection switch
		2. Check whether the AC pile output line is broken or has a low impedance connection to ground
		3. After eliminating the above problems, and reset the leakage current protector reset switch, reapply power, if the fault still exists, please contact us
Leakage current sensor Sensor anomaly	Sensor for detecting leakage current Abnormalities	1. Immediately disconnect the power distribution box leakage / overcurrent protection switch
		2. Check whether the AC pile output line is broken or has a low impedance connection to ground
		3. After eliminating the above problems, reapply power, if the fault still exists, please contact us
Ground fault	Poor input/output ground or input L/N reversed	1. Immediately disconnect the power distribution box leakage / overcurrent protection switch
		2. Check whether the AC pile input/output line grounding is normal, and whether the input L/N is connected in normal order
		3. After eliminating the above problems, reapply power, if the fault still exists, please contact us
Charge gun connection Abnormal	Charging gun CC/CP connection abnormal	1. Check whether the connection of the charging gun is correct and reliable
		2. If the fault still exists, please contact us

Charging Status and indicatorLight

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 $9 \pm 0.8V$,
3	Charging	Off	Breathe	Off	Detection point 1 voltage is $6 \pm 0.8V$, the relay is closed
4	Finish	Off	On	Off	Charging complete
5	Err:CP	Off	Off	Fault (0.5s) 1 time	Detection point 1 voltage of $9.8V < U < 11.2V$. $6.8V < U < 8.2V$; $12.8V < U$ or $U < 5.2V$. Relay is disconnected
6	Under Voltage	Off	Off	Fault (0.5s) 2 time	1 phase:voltage<85V;3 phase:voltage<147V
7	Over Voltage	Off	Off	Fault (0.5s) 3 time	1 phase:voltage>264V;3 phase:voltage>457V
8	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
9	Over Current	Off	Off	Fault (0.5s) 5 time	When the line current is $I_e + 2 < I \leq I_e + 4$, 60S, the relay is disconnected, and it will automatically restart after 10S. Repeat three times for permanent disconnection. When $I > I_e + 4$, the relay is disconnected, and the charging ends
10	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
11	Ungrounded	Off	Off	Fault (0.5s) 7 time	The ground wire is not connected, the relay is disconnected, and the relay is allowed to close after the fault is removed

APP Download QR Code



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.

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 meet general 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 antenna(s).



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