

Parasol Elite Power

Protect | People | Property | Environment

ELECTRIC VEHICLE CHARGER



Model: UEVC1L-ab-c-PEP SERIES

NOTE: a: maybe 16 or 32 or 40 or 48;
b: maybe 10- or blank;
c: maybe R;
maybe L ;
maybe 4;
maybe W..

READ AND SAVE THESE INSTRUCTIONS
Installer: Leave this manual with the homeowner

TABLE OF CONTENTS

SAFETY INSTRUCTIONS	3
USER INSTRUCTIONS	4
PARAMETERS SHEET	4
PRODUCT DESCRIPTION	5
PRODUCT DIMENSIONS	5
INDICATOR LIGHT	6
BUTTON FUNCTIONS	6
TELECOMMUNICATION	6
POWER MANAGEMENT	6
INSTALLATION INSTRUCTIONS	7
UNPACKING	7
ATTACHMENT	7
TOOLS/MATERIALS REQUIRED	7
BEFORE INSTALLATION	8
INSTALLATION LOCATION	8
WARNING	8
CONNECT ELECTRICAL WIRING	9
INSTALLATION	9
INSTALLATION OF THE CHARGER HOLDER	12
INSPECTION	12
APP INSTRUCTION	13
REGISTER	13
ADD DEVICE	13
OPERATE INTRODUCTION	15
FAULT INTERFACE	18
MAINTENANCE	19
TROUBLESHOOTING	19

SAFETY INSTRUCTIONS

Important note: Please read this booklet before installing and switching on this appliance. The manufacturer assumes no responsibility for incorrect installation and usage as described in this booklet. Keep the instruction book for future reference. All the information in the manual is valid for the charging station model in this manual. This instruction book details the install guidance for the charger. If you're unsure which model you have, please check the rating label on the charger.

The unit is designed for installations inside or outside, with the Innovative safety systems we have built into the charger ensuring its safe usage. This guidance provides information to assist when installing the unit. The charger must be professionally installed by a qualified electrician according to local and national regulations applicable at the time of installation and used in accordance with the manufacturer's instructions.

WARNING:

- This unit must be grounded (Earthed).
- This unit is only to be installed by a qualified electrician in accordance with local building and electrical codes and standards.
- This unit is designed to connect a electrical supply voltage of AC208~240V 60Hz.
- The charger must be installed on a secure solid surface that can support the weight of the charger. Failure to install on a secure surface or not in accordance with electrical regulations could lead to death, personal injury, or property damage.
- This appliance is designed to be used by adults, do not allow children to play with the appliance or let them hang over the charger.
- Do not put fingers into the connector.
- This unit is not suitable for use in dangerous places where there is high amounts of dust, dangerous gas or in an explosive and flammable environment.
- In order to ensure the electrical safety of the unit, the product body shell must be fixed to the correct position with fasteners that come with the product and the seals used to ensure the IP rating is maintained.
- Do not use this unit other than its intended purpose.
- Do not use if the connector or cable is damaged.
- Disconnect the charging from the vehicle prior to driving off.
- To prevent electrical shock, do not plug-in or un-plug with wet hands .
- Do not use a power washer to clean or wash the charger.
- It is recommended not to use in a location that can be reached by rain, suggest increase rain protection measures.
- Do not install in areas of high-risk chance of impact by vehicles or a high risk of trip hazard.

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.

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 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.

MPE Requirements

To satisfy FCC RF exposure requirements, a separation distance of 20cm 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.

USER INSTRUCTIONS

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.

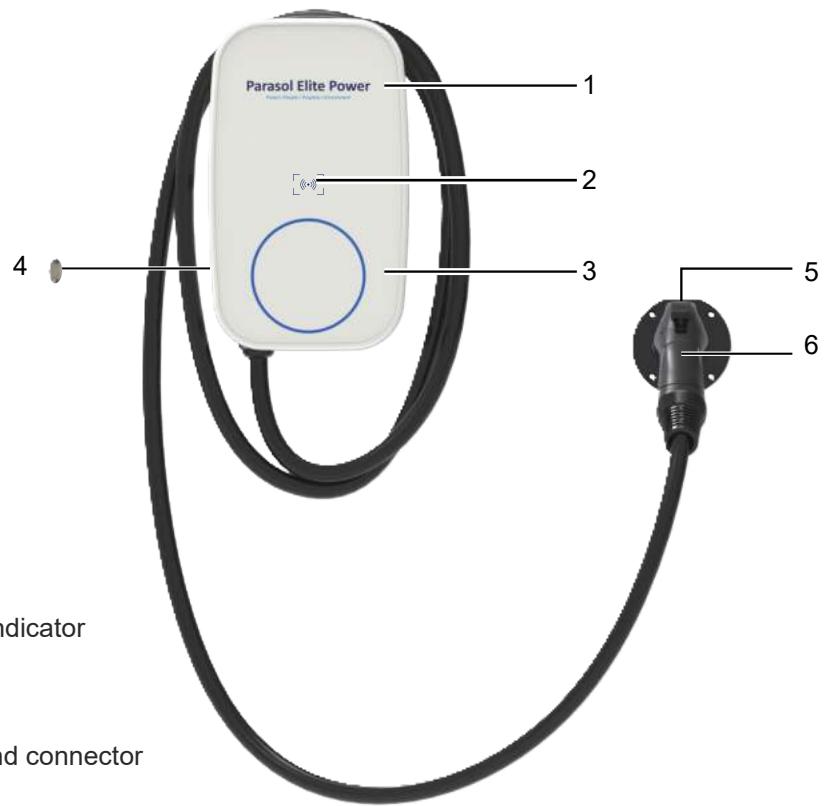
Important: Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards.

PARAMETERS SHEET

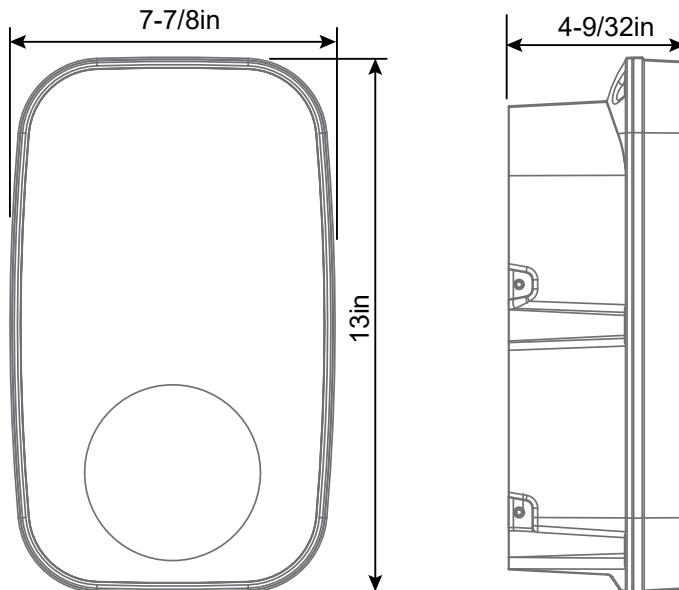
Item	Datasheet	Model	UEVC1L-ab-c-PEP SERIES
Input	Power Supply	L1+L2+PE	
	Rated Voltage	AC208~240V	
	Rated Current	48A (40A, 32A, 16A adjustable)	
Output	Output Voltage	AC208~240V	
	Maximum Current	48A (40A, 32A, 16A adjustable)	
	Rated Power	11.5kW(MAX)	
User interface	Charger Connector	Cable +Type1 Connector	
	Material	ABS +PC	
	Colour	White	
	Indicator Light	Three colour LED	
Safety	Ingress Protection	NEMA 3R	
	PCB Protection	Over current protection	
		Residual current protection	
		Ground protection	
		Over/Under voltage protection	
		Over temperature	
	Standard	UL2231-1, UL2231-2, UL2594, UL991, UL1998	
Power consumption	Standby Power Consumption	<10W	
Enviroment	Installation	Wall mounted	
	Work Temperature	-31°F~122°F	
	Work Humidity	3%~95%	
	Work Altitude	<78740in	

USER INSTRUCTIONS

PRODUCT DESCRIPTION



PRODUCT DIMENSIONS



USER INSTRUCTIONS

INDICATOR LIGHT

Light Display Status	Product Status
Blue, green and red flashing alternately	Product power-on self-check
Blue light glowing	Standby
Blue light flashing	Connection confirmation
Green light glowing	Charging
Green light flashing	Turn off charging from APP or OCPP
Red light glowing	Over temperature
Red light flashing one fast, one slow	Emergency stop

BUTTON FUNCTIONS Function button operation instructions

Function	Operation	Status indicators	Remark
Emergency stop	During normal charging, press once	Red light flashing one fast, one slow	Disconnect from the car
Mode toggle	On standby state: 1.Under APP control mode,press 5 times continuously to enter plug and charge mode; 2.Under plug and charge mode,press 5 times continuously to switch the randomized delay off or on; Note:plug and charge mode :automatically starts charging after the connection is confirmed.	Beep twice	If you want to cancel the manual mode click schedule in the APP
WIFI reset	On standby status, press and hold for more than 10 seconds to reset the WiFi.	Beep twice	The charger will need to be re added to the APP

Telecommunication

This product complies with the OCPP1.6J service protocol. After you set the IP and ID by the APP and the network cable is connected to the Ethernet interface, the product will automatically connect to the server to realize backstage control. To set the IP and ID, please refer to the settings in the APP.

Power management instruction

Product with power management function can self-regulate the output current to keep the total household electricity load not exceeding the total household current.

Note: If the current values of the two live wires monitored by the two-phase power are not equal, the product will calculate the minimum output current by itself, and the two output lines will be executed according to this minimum output current;

After the product is connected to WIFI, set the total allowable current value of the household through the APP. For detailed settings, please refer to "Order input".

RFID

RFID function, you need to make sure that the connector is connected to the electric vehicle. In the connection confirmation mode, tap your card in the RFID area of the charger to start charging, and then tap your card in the RFID area again to stop charging.

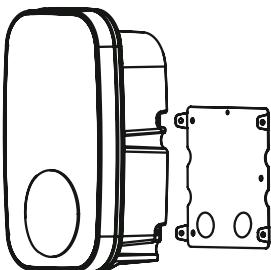
Note: After starting and stopping charging once, tapping your card in the RFID area in connection confirmation mode will not continue to charge. If you want to continue charging, you need to unplug the connector and reconnect to the electric vehicle.

INSTALLATION INSTRUCTIONS

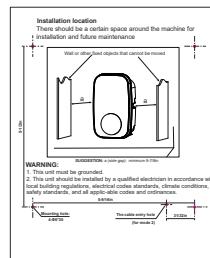
UNPACKING

1. Scratch or remove the sealing tape and take out the unit.
2. Follow the **ATTACHMENT** to check all items and to see if there are any omissions.
3. Check the unit is correct and whether it matches with order model.
4. Check whether the unit has defects or is damaged due to defectiveness or transportation.
5. Make sure all packaging is disposed of responsibly and in accordance with the current regulations in your region.

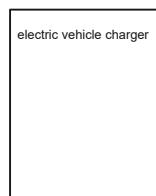
ATTACHMENT



1 x EV Charger & 1 x Fixing bracket *



1 x Installation template



1 x Manual



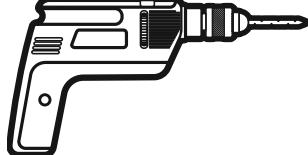
4 x Wall Plugs
M6x30



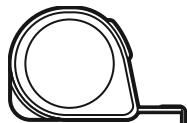
4 x Screw
ST4.2x32

* NOTE: It is integrated from factory, and separated when installed.

TOOLS/MATERIALS REQUIRED (NOT INCLUDE)



Electric drill



Measuring tape



Safety gloves



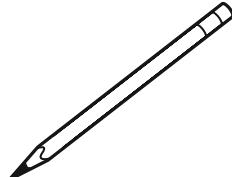
Electric elbow tool



Phillips screwdriver



Slotted screwdriver



Pencil

INSTALLATION INSTRUCTIONS

BEFORE INSTALLATION

1. Installer or end user must read and understand all the content covered in this manual before installing or using this unit.
2. Choose a suitable installation location according to the installation conditions stated in the warning.
3. Make sure that the installation location complies with current laws and regulations.
4. Confirm that there is a suitable input voltage power supply at the installation site (consistent with the nominal power supply of the product).
5. Make sure the supplied fixings are suitable for the mounting location. If not suitable, alternatives must be obtained locally before proceeding with the installation.

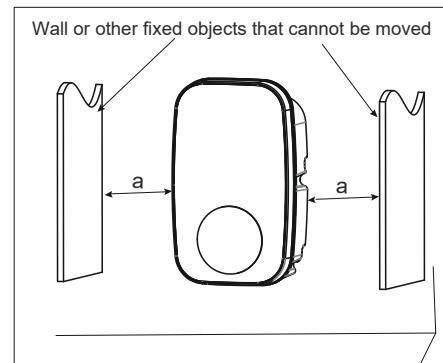
INSTALLATION LOCATION

There should be a certain space around the unit for installation and future maintenance.

SUGGESTION:

a (side gap): minimum 9-7/8in.

*A charging cable holder position needs to be reserved.

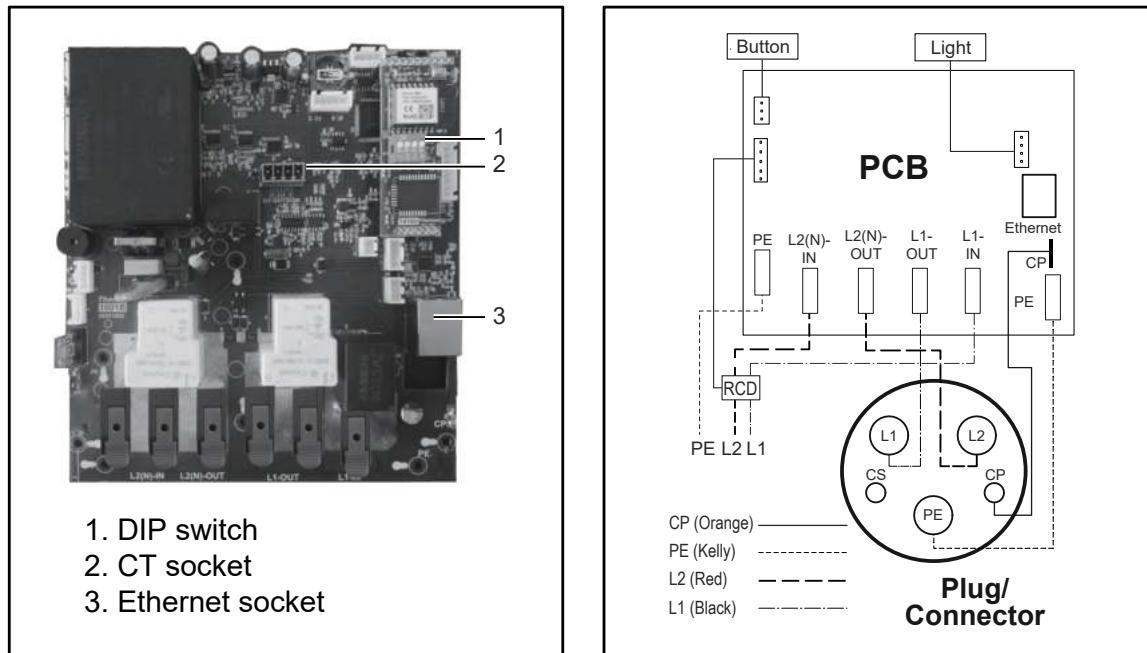


WARNING

- ▲ Make sure that the power source is turned off before installing the unit.
- ▲ Manufacturers and distributors are not responsible for any loss or related responsibilities caused by any incorrect installation.
- ▲ The installer shall be responsible for the loss and damage of the product, system or property caused by improper installation.

INSTALLATION INSTRUCTIONS

CONNECT ELECTRICAL WIRING



Note: The charger must be electrically protected by installing externally a Miniature Circuit Breaker (MCB) and a Residual Current Circuit Breaker(RCCB).

MCB: Maximum value according to the maximum output current of the load point.

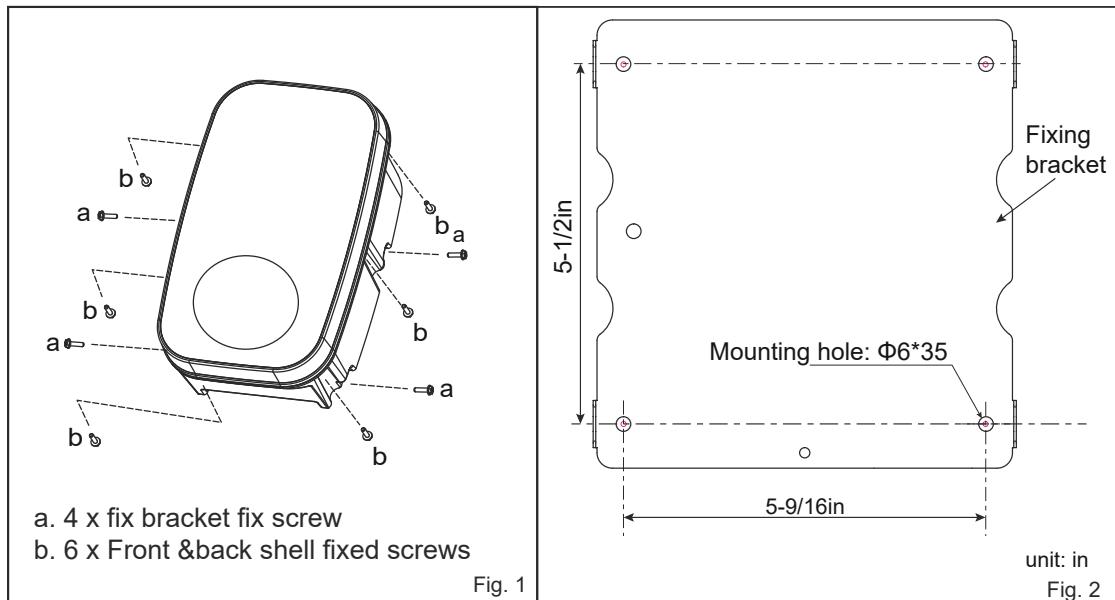
RCCB: According to local regulations, Type A or Type B.

INSTALLATION

1. Take the unit and remove the 4 screws on its fixing bracket (The unit is integrated with the fixing bracket and needs to be disassembled first). Keep the screws and fixing bracket for subsequent use.

2. Remove the 6 fixing screws on the front shell and the rear shell, save the screws for subsequent use;

Note: Reference fig.1 for steps 1 and 2.



INSTALLATION INSTRUCTIONS

3. Use the installation template to mark the fixed bracket installation hole position. Punch holes according to the punching information prompted by the installation template, and ensure that the punch positions are accurate.

Note: Fixed bracket mounting hole has a diameter of 15/64in and a depth of about 1-3/8in.

4. Fixing bracket installation hole inner - insert wall plugs, and use attachment screws(ST4.2*32) fixing fixed bracket to the mounting surface and ensure the screws are fastened well.

Note: If the screws are not fastened well, the fixing bracket may become loose and may interfere with the installation of the housing.

5. Insert the cable into the unit by the cable gland.Fig.3

6. Trim and cut the cable to the proper length.

7. Refer to this article connect electrical wiring to connect the cable to the terminal block.Fig.3

WARNING: To ensure the rated IP protection level of the product, must use the cable gland in the accessories.

8. Ensure that all cables are connected correctly and securely, and are not loose or damaged.

9. Screws lock the front and rear shells tightly.

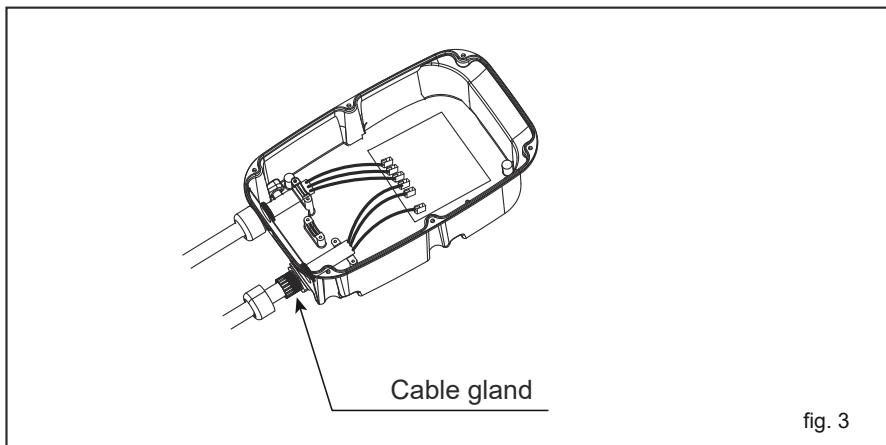
Caution: Need to use the screws removed from the original position.

Before installing the front shell, it must be ensured that the sealing strip in the front shell groove has not fallen off and is in the right position. Ensure that all seals performed on the unit can reach the IP rating.

10. Screw the unit to the fixed bracket.

Caution: Use the screws removed from the original position.

Note: 9.10refer to fig. 1, reverse operation.



* **NOTE:** Product installation details with OCPP1.6J service agreement. Refer to "Network Connection guide".

** **NOTE:** Product installation details with power management. Refer to "Power management function installation guide".

INSTALLATION INSTRUCTIONS

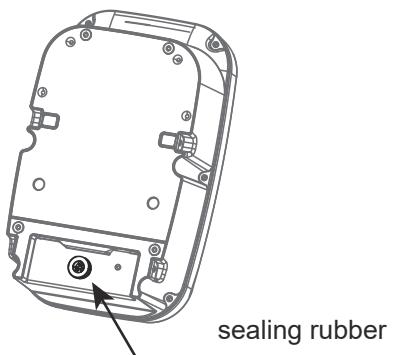
Network Connection guide

1. Insert the network cable into the sealing rubber, then insert them into the housing. Reserve enough length of the network cable to ensure that it can be well connected with the Ethernet socket;

NOTE: During installation, if the network cable line and the plug is separate, you don't have to cut the sealing rubber.

Warning: Seal the opening on the back to achieve the unit's IP rating. sealing is very important. This involves the safety of the product and must be paid attention.

2. Network cable plug is docked to Ethernet socket.

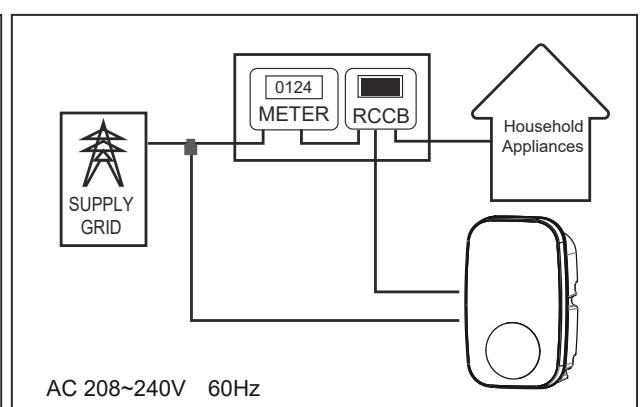
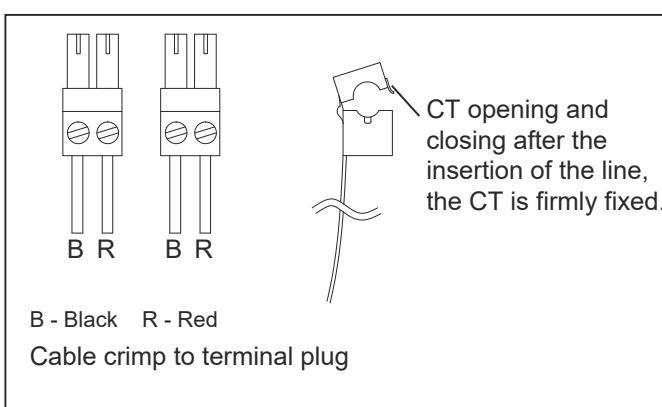


Power management function installation guide

1. Thread the CT wire into the sealing part, one hole corresponds to one CT wire, after the CT cable is inserted, reserve enough length to connect to the CT socket;

2. Crimp the CT wire to the CT wire terminal and then insert it into the CT socket

3. Open the CT and fixed it to the main incoming line.



NOTE:

If there is a need to extend the CT cable, **twisted-pair cable like CAT5 must be used**. DO NOT use mains cable, bell wire or speaker cable.

It is important to use only twisted-pair cable to maintain signal integrity. Up to four CT cables can be extended using the separate twisted pairs in a CAT5 Ethernet cable. The cable can be extended up to 40m.

• **Remember to a separated twisted pair for each CT.**

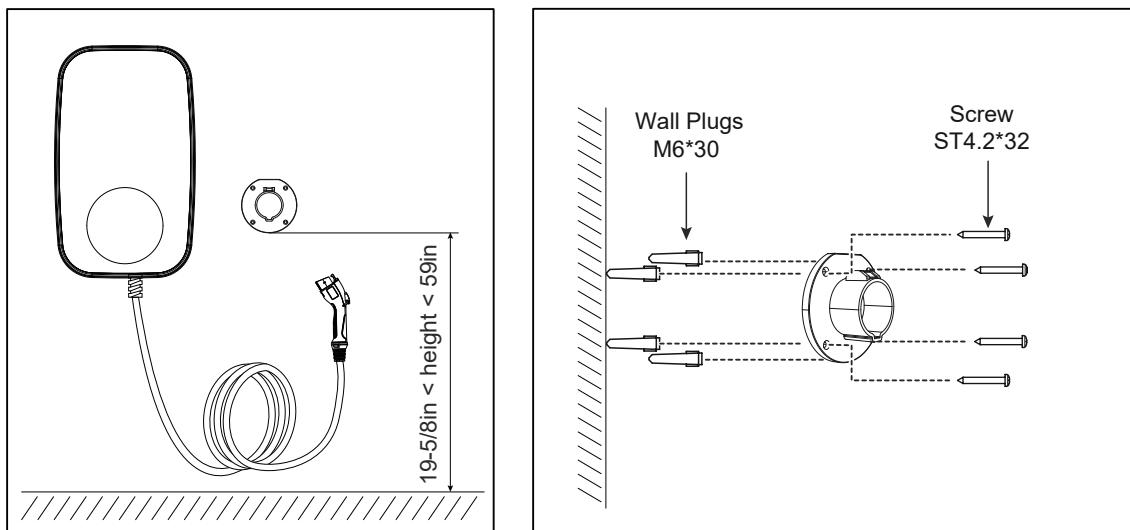
• When joining CT wires make sure that the ends of the wires are twisted tightly together and joined using crimps, screw terminals or solder.

• Avoid using lever clamp type terminals as these do not provide a reliable connection at very low currents.

INSTALLATION INSTRUCTIONS

INSTALLATION OF THE CABLE HOLDER

1. Take out the charger holder.
2. Find a suitable location near the EV charger box, which must be more than 19-5/8in above the bottom surface and not higher than 59in.
3. Align the charger holder in position and mark the four mounting holes.
4. Drill the 4 holes as the marks at dia 15/64in, 1-3/8in deep.
5. Insert the wall expansion plug.
6. Screw the charger holder to the wall.
7. Installation is complete.



INSPECTION

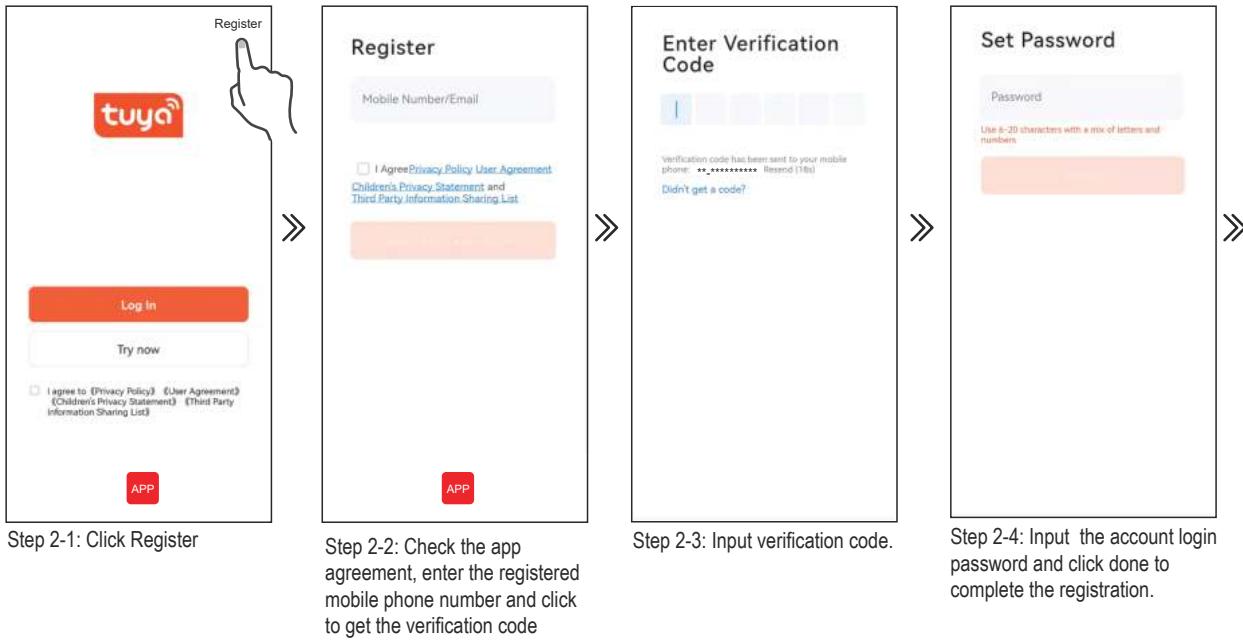
1. **Check that this unit must be grounded (Earthed).**
2. Make sure you are satisfied that the installation is complete and is in a safe condition.
3. Switch ON the power, which it will cycle the red, blue and green lights to self-check and then enter the corresponding light indication. The unit and test in accordance with the current Electrical Wiring Regulations.

NOTE: Make sure this product has been installed in compliance with the current Electrical Wiring Regulations.

APP INSTRUCTION

REGISTER

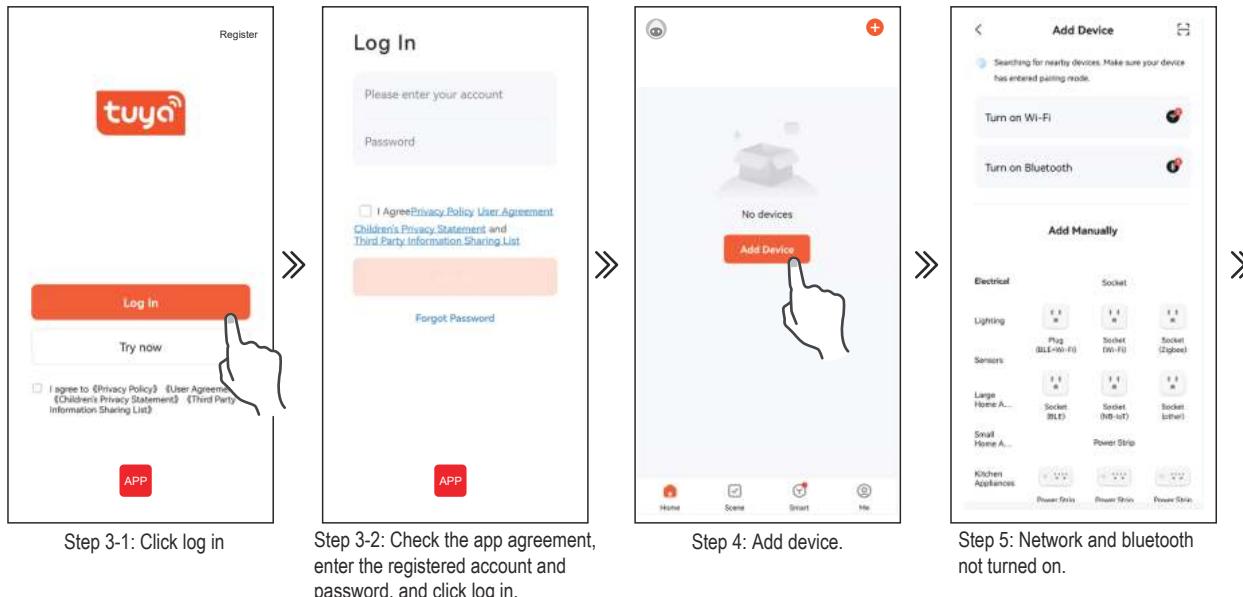
Step 1. Application platform download Tuya app .



Step 2. Open the tuya app register an account to log in or log in directly through the relevant app bound by tuya.

Note: You can register your account through your mobile phone number or email. The following takes mobile phone number registration as an example to describe the steps in detail:

ADD DEVICE



Step 3. Check the app agreement, click log in, input the newly registered account and password to log in to the tuya app, and complete the app log in.

Step 4. Reset wifi(refer to the function button instruction for the wifi reset operation guide),Click “Add Device” to add the charger device that needs to be connected.

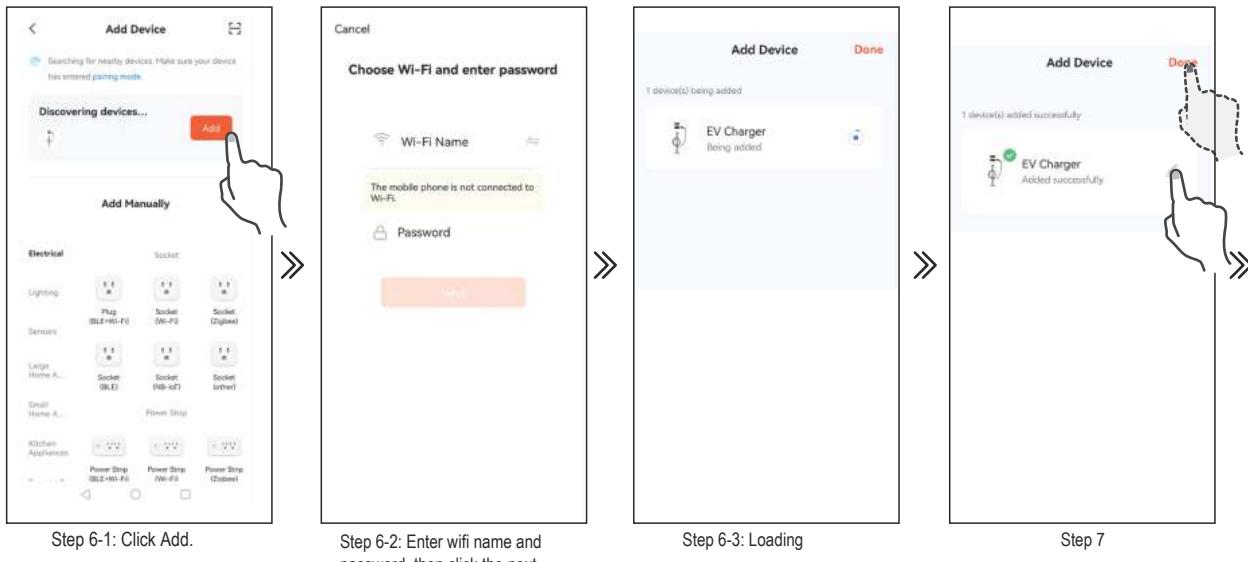
Note: Make sure the connector un-plug before add the device.

Step 5. After turning on wifi , bluetooth and geolocation, the tuya app automatically searches for connectable devices.

Note 1: When connecting the device,the mobile phone must be close to the charger.

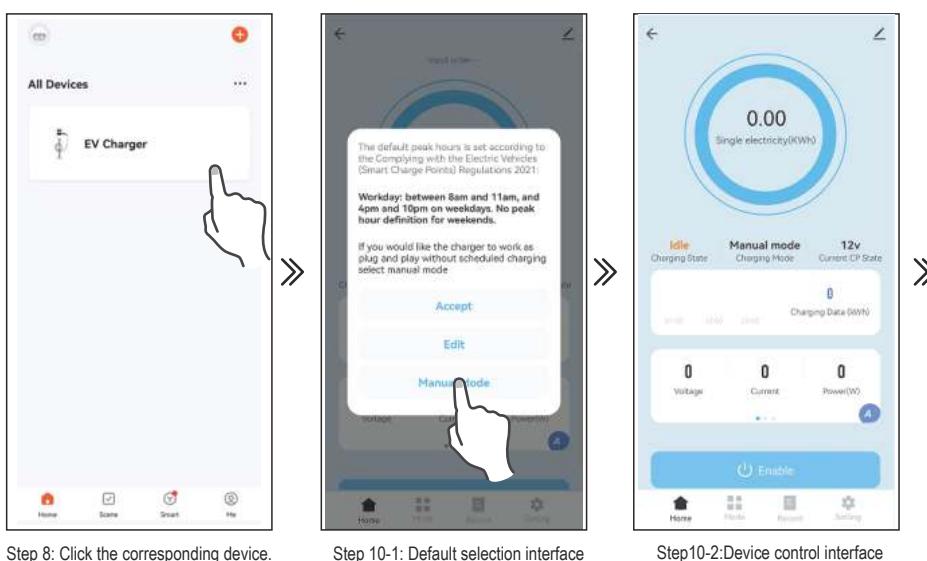
APP INSTRUCTION

2. The charger needs to be connected to WiFi. If the WiFi signal is weak or absent, the charger will not receive the signal or delay the connection. Therefore it is recommended to add an enhancement device for WiFi receiving signal near the charger. Note: To check if your WiFi can reach the charger and have a good signal check your smart device or smart phone whilst standing close to the charger with the WiFi tuned on if the signal can be seen above 2 bars then it is ok if not a WiFi booster or repeater needs to be added. Note: The ethernet port is not for the smart App it is only for OCPP use.



Step 6. After clicking ADD, enter the wifi and wifi password, wait for the device to connect to the network.

Step 7. If you need define a new device name, click “” if not need, click “done” to confirm the connection is successful.



Step 8. Click the relevant device icon to enter the device control interface.

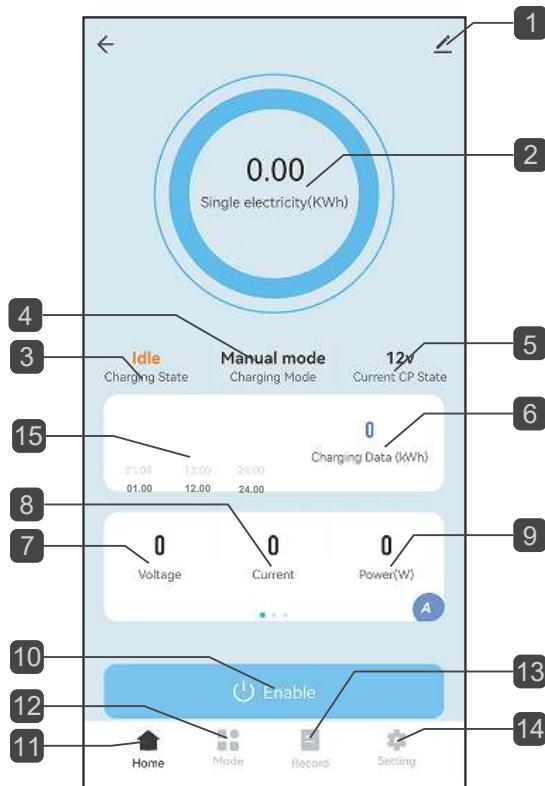
Step 9. The first connection will appear the default selection interface, you can select the default mode, edit the charging time or select the manual mode.

Step 10. Click manual mode.

Step 11. After connecting to the car, then charging without any operation.

APP INSTRUCTION

OPERATE INTRODUCTION



INTERFACE INTRODUCTION

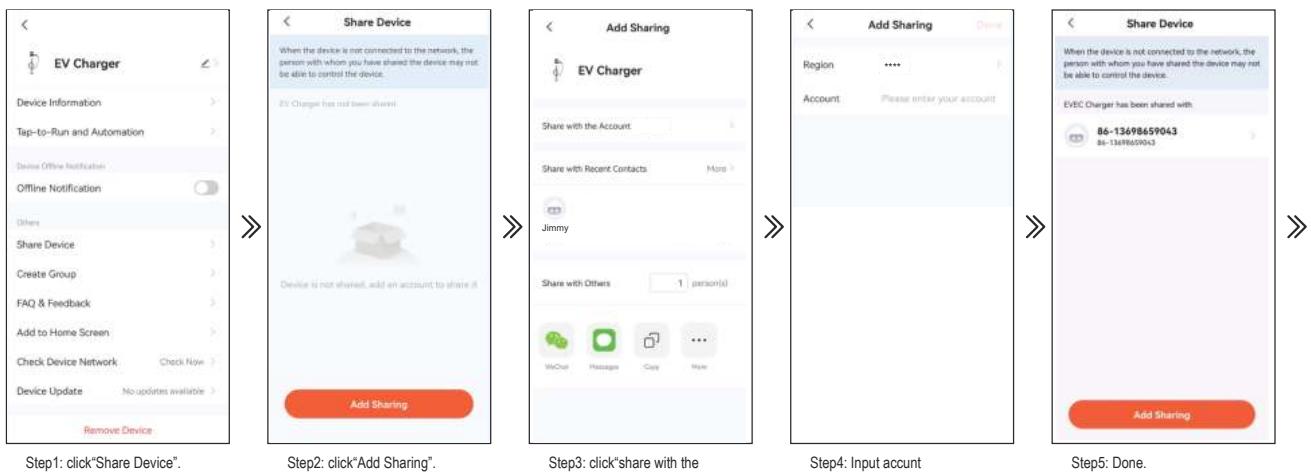
1 Edit	7 Charging voltage
2 Single charging energy consumption	8 Charging current
3 Charging state	9 Charging power
4 Charging mode	10 On/off
5 CP state	11 HOME
6 Cumulative charging energy consumption	12 Charging mode
	13 Record
	14 Setting
	15 Energy consumption record

1 Edit

- (1). You can set the charger name by clicking "✍"
- (2). Offline Notification: When the charger is powered off, it will prompt the device to be offline on the home screen.
- (3). Share Device: You can share the APP with others by share device. Shared users only have the using right and cannot share the APP again.

Refer to the following steps:

APP INSTRUCTION



Step1: click"Share Device".

Step2: click"Add Sharing".

Step3: click"share with the account".

Step4: Input account at account.

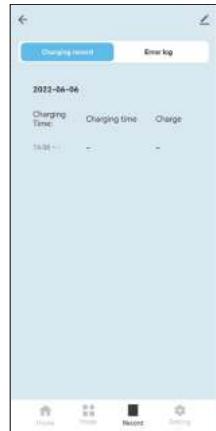
Step5: Done.

(4). Software Update: When there is a software update available a message will appear on the APP screen to confirm the update.

(5). Remove Device

1. Disconnect: Disconnect device connection.

2. Disconnect and wipe data: Disconnect device connection and wipe "Charging record" and "Error Log" data .



13 Charging mode

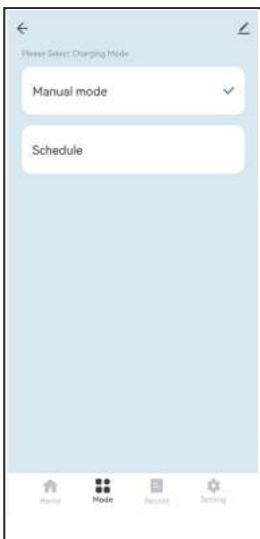
(1).manual mode:control charger by Enable and Turn off charger on APP.

(2).Schedule: Timed charging.

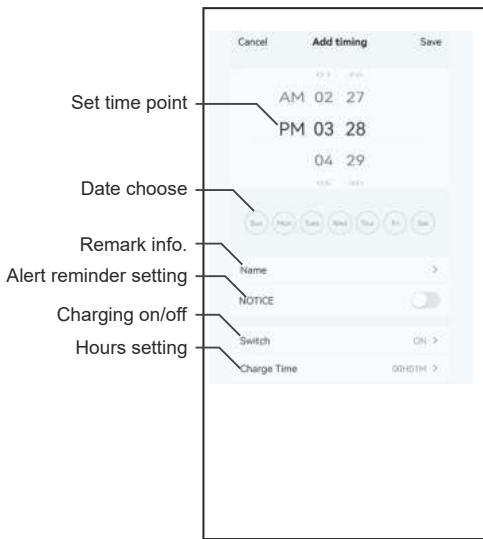
NOTE 1: When you choose the set time point to turn on the charging , you must adjust the hours setting, otherwise the default charging time is only 1 minute;

2: When you choose the set time point to turn off the charging, there is no hours setting;

3: When you choose the date choose, this time of each week will default to on or off charging.



Charging mode



Charging mode

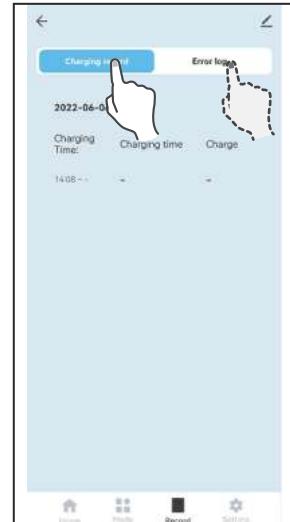
APP INSTRUCTION

14 Record

You can view "Charging record" and "Power" on this interface.

NOTE: Only the information that is turned on or off through the APP will be recorded in the charging record.

When the charging is turned on by the function button, there is no charging record.



Record

15 Setting

((1). Order input: Input order tab.

you can set power management from this tab. To use this function a CT clamp is required. To set maximum current:

1. Click Input order tab to enter command input field.
2. Input "home value", this value is the limited protection value of household entry current, the setting range is 0-99, and the factory default setting is 99A (the system will automatically optimize the current value when the actual value is 5A less than the value set); the setting value is recommended to be set according to the rated current value of the total household current.

(2). Set Current tab(A): You can set max charging current, max charging current not more than the current of DIP switch setting.

NOTE: 1. After the APP is connected at the first time, the current value displayed here is not the set current value, it is a current setting form.

2. It will take effect only after clicking to enter to set any current value, and the current value adjustment range is 6-48A;

3. If the current value has never been set here, the value displayed here is invalid

(3). Temperature Monitor: can check device interior temperature value.

(4).IP Address: Change the address of the OCPP back-office server;

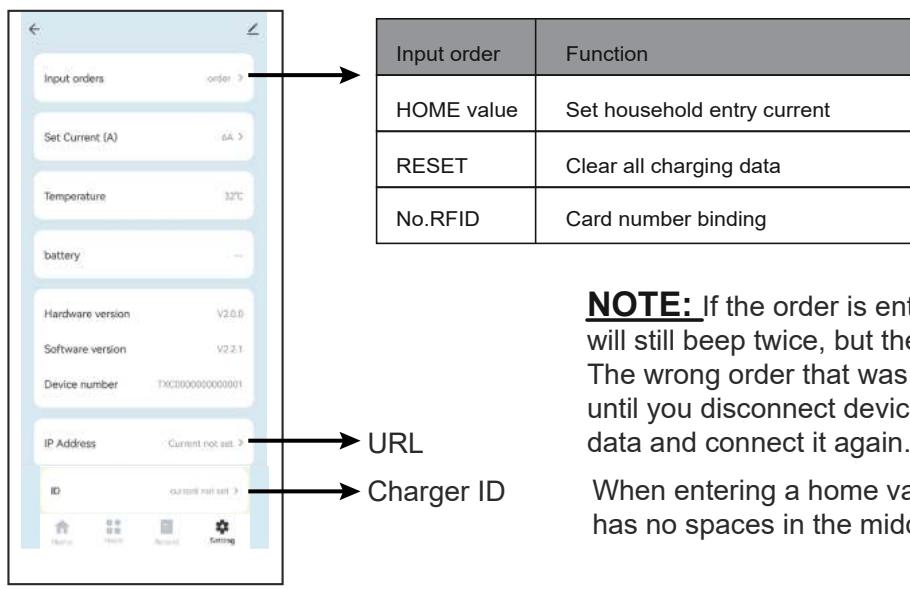
(5).ID: The product name in the OCPP back-office server.

NOTE: 1. make sure the ID is only.

2. After the ID is replaced, it can be concluded that the ID replacement is complete only when the Device number is consistent with the replaced ID;

If the Device number does not change after changing the ID, you can exit the APP and then power off and restart the EV charger.

3. After the IP or ID is replaced, it must be powered off and restarted to take effect.



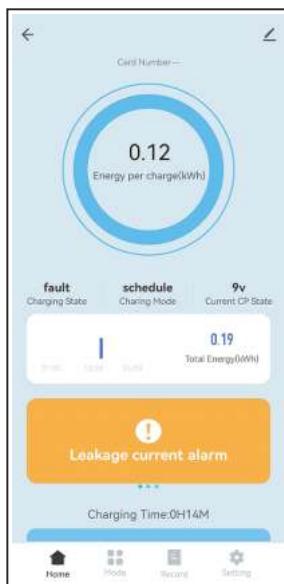
NOTE: If the order is entered incorrectly, the device will still beep twice, but the order will not be executed; The wrong order that was entered cannot be corrected, until you disconnect device from the APP and wipe the data and connect it again.

When entering a home value, it is case-insensitive and has no spaces in the middle, such as: home45.

APP INSTRUCTION

FAULT INTERFACE

If device has fault, you can view the cause of the failure in the center of the main interface of the APP.



Setup the RFID card for the customer



Go in to settings, Input orders.

Using the number on the front of the card enter the letters and numbers followed by RFID. It is case sensitive.

ie **SPEVC#####**

Do not use any spaces,

Test it by plugging in the car and swiping the card. Charging should start.
If you get 5 beeps, then the number is wrong or there was a space between the full stop.

Both supplied cards have the same number so you only need to do this once.

MAINTENANCE

The charger enclosure does NOT need to be opened for routine maintenance tasks.

1. Regularly clean the external surfaces of the equipment with a damp cloth
In order to avoid damaging the surface smoothness, do not clean the internal parts with soluble substances and alcohol.
2. Regularly inspect the exterior of the equipment for visual damage, if damage affects safety, isolate the equipment and prevent its use until appropriate repairs have been completed.
3. Once a year, the charger and switchgear (if installed) should be electrically inspected by an appropriately qualified electrician in accordance with the current legislation for the installation location. A record of the tests and results must be kept.

TROUBLESHOOTING

Red light flashing	One fast, two slow	CP fault
	Two fast, one slow	Over current
	Three fast, one slow	Leakage current fault
	Three fast, two slow	Under voltage fault
	Four fast, one slow	Over voltage fault
	Six fast, two slow	Adhesion fault
	Seven fast, one slow	Earth fault
	Red light glowing	Over temperature

Product Disposal

In accordance with European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in national law, used electrical devices must be collected separately and recycled in an environmentally responsible manner.

Ensure you return your used device to your dealer or obtain information regarding a local, authorised collection and disposal system. Failure to comply with this EU Directive may result in a negative impact on the environment.



Cod:xxxxxxxx