CHARGETRONIX

80A Flux AC Charger

User Manual

V2-20250218

Important Safety Instructions Related To Risk Of fire or Electric Shock

WARNING: When working with electrical products, basic precautions should always be followed. This manual contains important instructions for CTX-C40-240-2-ISO, CTX-C80-240-1-ISO, CTX-C80-240-2-ISO models, needs to be observed during installing, operating and maintaining.

1.Please read all instructions before using this product.

2.Use of this device around children should be done under supervision.

3.Do not stick your fingers into the EV connector.

4.Do not use this product if the flexible power cord or scooter cable is frayed, has torn insulation, or has any other damage.

5.Do not use this product if the housing or EV connector is broken, cracked, open, or otherwise damaged.

6.Indicate the ambient temperature grade: -30°C to 50°C.

7.Note the following or something similar: “To reduce the risk of fire, connect to a circuit providing the following function”. @ampere’s maximum branch circuit overcurrent protection shall be in accordance with the National Electrical Code ANSI/NFPA 70, and Canadian Electrical Code Part 1 C22.1.

8.Disconnecting Means. For equipment rated more than 60 amperes or more than 150 volts to ground, the disconnecting means shall be provided and installed in a readily accessible location. The disconnecting means shall be lockable open in accordance with 110.25.

CONTENTS

1. Abbreviations

S/N	Abbreviations	Description
1	EV IPHEV	Electric vehicle, which can be a BEV (battery electric vehicle) or a PHEV (plug-in hybrid electric vehicle)
2	EVSE	Electric Vehicle Supply Equipment
3	kW	Kilowatt
4	A	Ampere (unit of current)
5	V	Volts (voltage unit)
6	Hz	Hertz (unit of frequency)
7	RFID	Radio frequency identification

2. Safety Instructions

In this manual, the following warning labels and precautions are used in the AC EV Charger:

WARNING

For use with Electric Vehicles.
Ventilation Not Required.
To avoid a risk of fire or electric shock, do not use this device with an extension cord.
This device is intended only for charging vehicles not requiring ventilation during charging.
THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PARTI

CAUTION

To reduce the risk of electric shock,Connect only to properly grounded outlets.
Do not use this product if there is any damage to the unit.
Risk of electric shock, do not remove cover or attempt to open the enclosure. No user serviceable Parts inside,Refer servicing to qualified service personnel.

AVERTISSEMENT

Pour utilisation avec des véhicules électriques
Aucune ventilation requise
Pour réduire le risque de choc électrique ou d'incendie, ne pas utiliser de rallonge avec cet appareil
Ce dispositif est destiné au chargement des véhicules ne nécessitant pas de ventilation au cours du chargement
LA PERTINENCE DE L'UTILISATION DE CORDONS FLEXIBLES SELON LE CODE CE, PREMIERE PARTIE.

ATTENTION

Pour réduire le risque de choc électrique, brancher sur une prise correctement mise à la terre
Ne pas utiliser ce produit si l'appareil est endommagé
Risque de choc électrique. Ne pas retirer le couvercle ni essayer d'ouvrir le boîtier. Aucune pièce interne réparable par l'utilisateur. Confier tout travail d'entretien ou de réparation à un technicien qualifié.

3. Standard

3.1 Safety Standard

UL 2594 UL 2231 UL 1998 UL991

3.2 Radio Frequency Standards

47CFR Part 15 (2020)

ANSI C63.4 (2014)

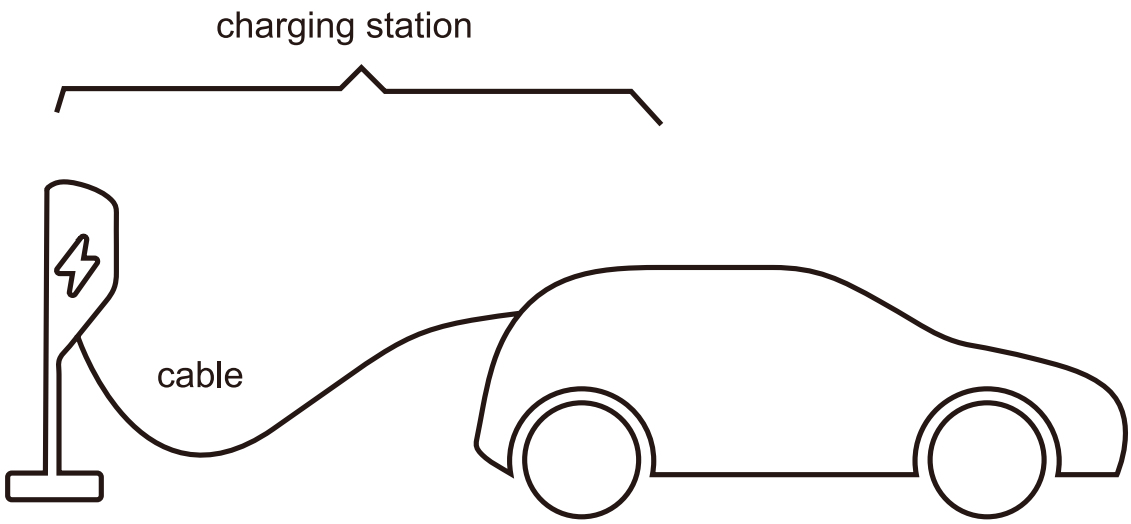
RSS-210 Issue 11

3.3 Energy Star Standard

ENERGY STAR® Program Requirements for Electric Vehicle Supply Equipment (EVSE) Version 1.0, 1.1 and 1.2

3.4 Charging Connection

The charging connection method is shown in the figure below.



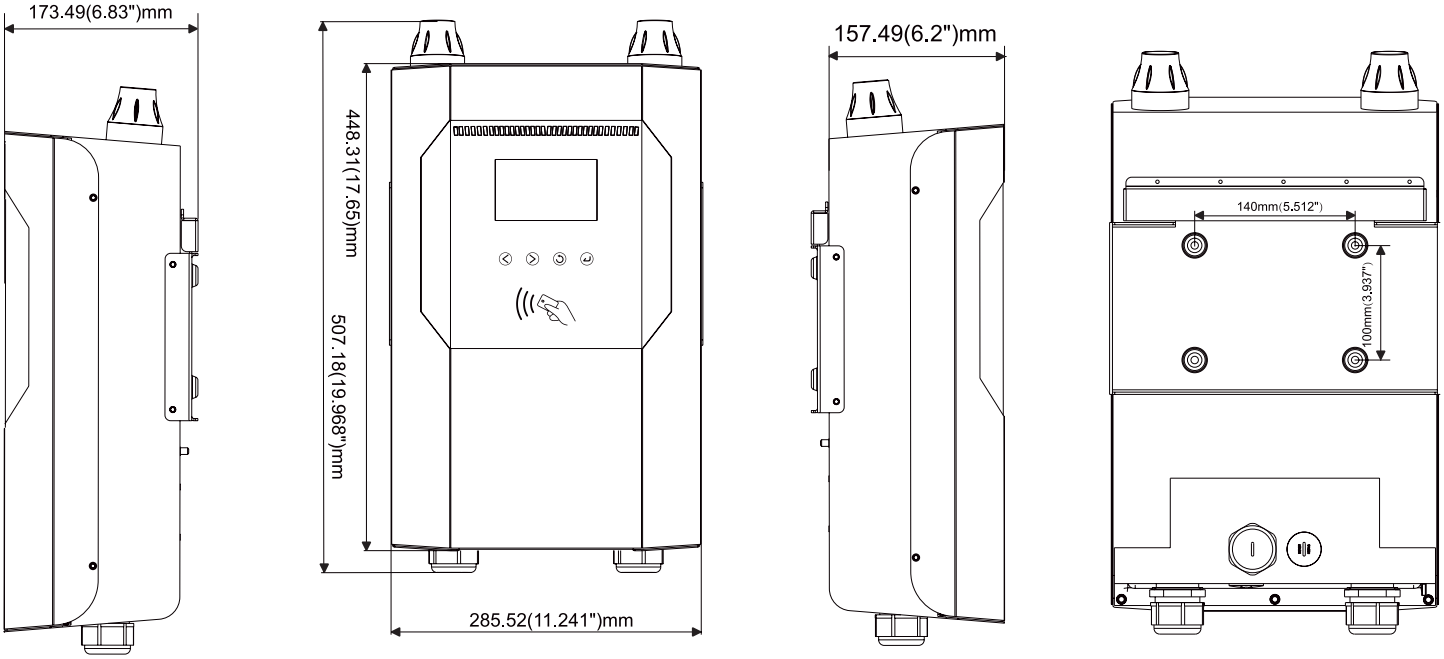
4. Product Information

4.1 Type

Welcome to our AC EVSE

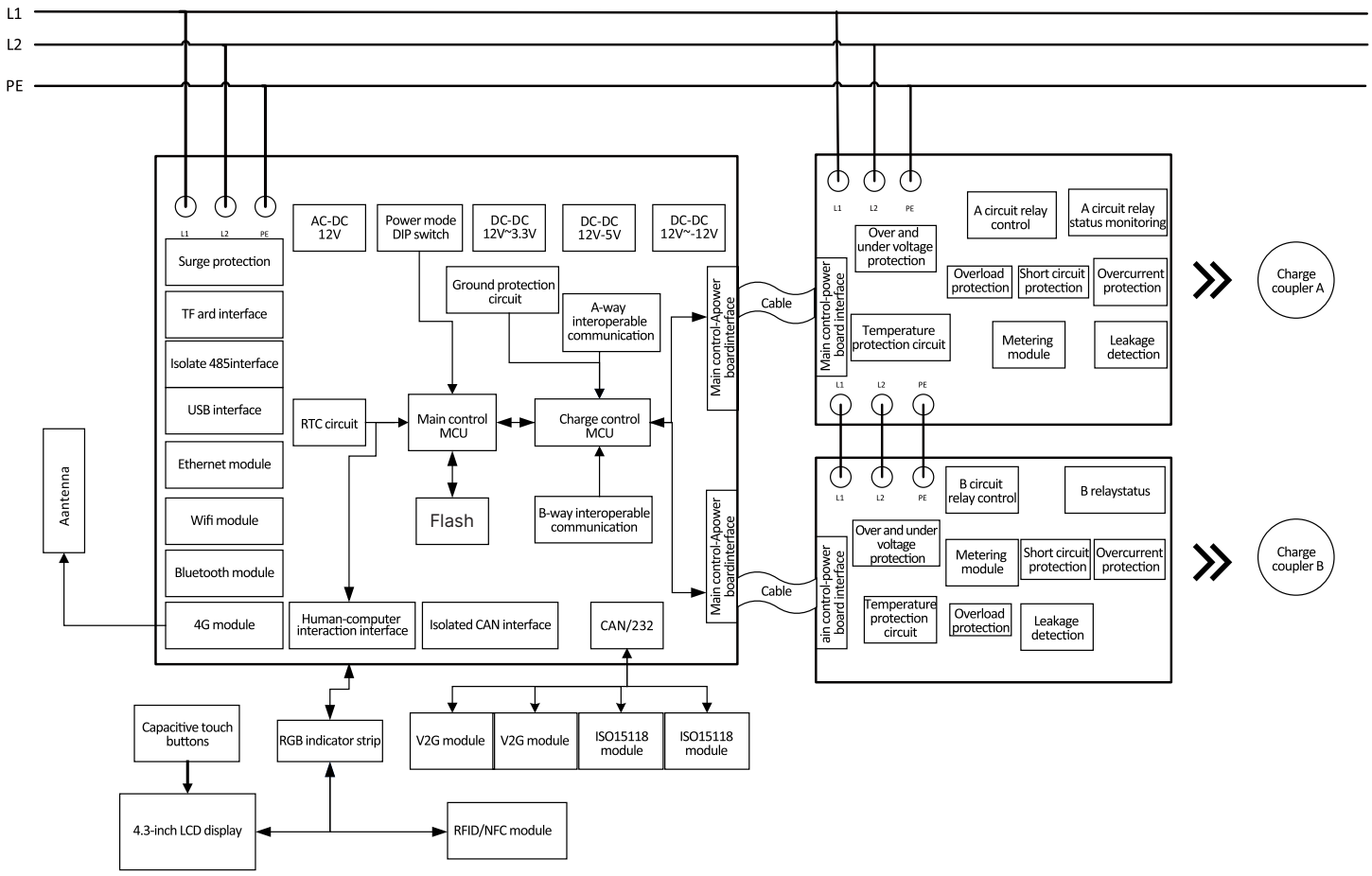
4.1.1 Shape and Size

The shape and size of the AC EVSE is shown in the figure below:



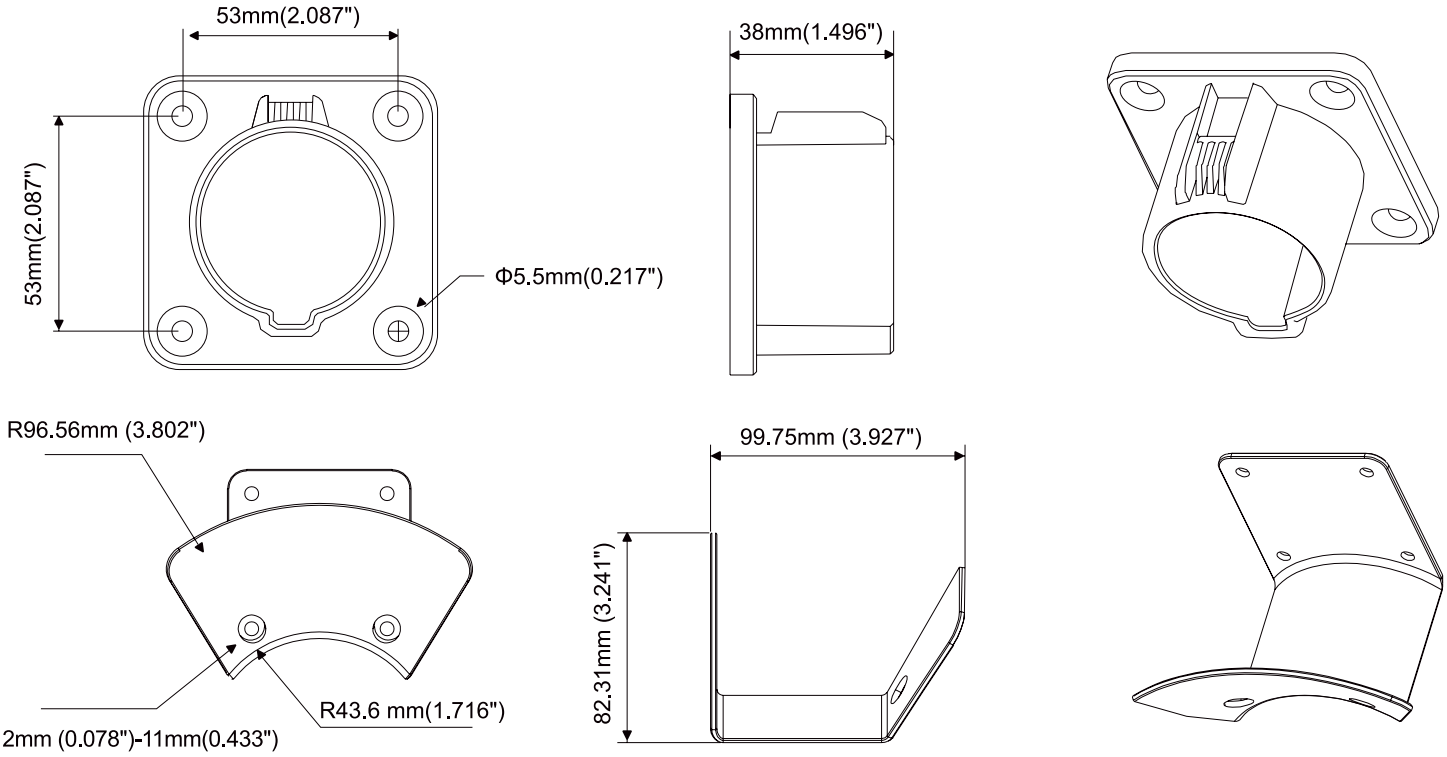
4.1.2 Block Diagram

The block diagram of EVSE is as follows:



4.2 Cable Holder and Hook

- ▷ AC EVSE is equipped with an American standard car-side charging connector.
- ▷ When the EVSE is in standby mode, insert the car end charging connector into an empty seat to protect the car end charging connector.
- ▷ Use the mounting screws to fix this empty socket in place next to the EVSE.



4.3 Specification

RD03 American Standard AC EV Charger Series							
Category	Specifications & Parameters						Option
	Model	Rated input/ output voltage	Rated input current	Rated output current	Max power	Charge Coupler	
Power Specification	CTX-C80 -240-1-ISO	Level 2, 208/240VAC 50/60Hz	80A	80A	19.2kW	SAE J1772 TYPE1 /80A	Optional
	CTX-C40 -240-2-ISO	Level 2, 208/240VAC. 50/60Hz	80A	2*40A	2*9.6kW	SAE J1772 TYPE1 /40A	Optional
	CTX-C80 -240-2-ISO	Level 2, 208/240VAC 50/60Hz	80A	1*80A/2*40A Load Balancing	19.2kW	SAE J1772 TYPE1 /80A	Optional
Power Wiring	Hardwired via pigtail： L1/L2/GND						
Communication	LAN (RJ-45)						
	USB (type A)						
	4G cat. 4						Optional
	WiFi 2.4G						Optional
	BLE 5.0						Optional
	RS-232						Optional
	RS-485						
	CAN						Optional
OCPP Version	OCPP 1.6J						
User Interface & Control	LCD Screen Size:4.3-inch;/pixels resolution:800*480/262K colors/Brightness:900nit /No touch function						
	RGB LED light bar						
	Capacitive touch buttons						
	Power option switch						

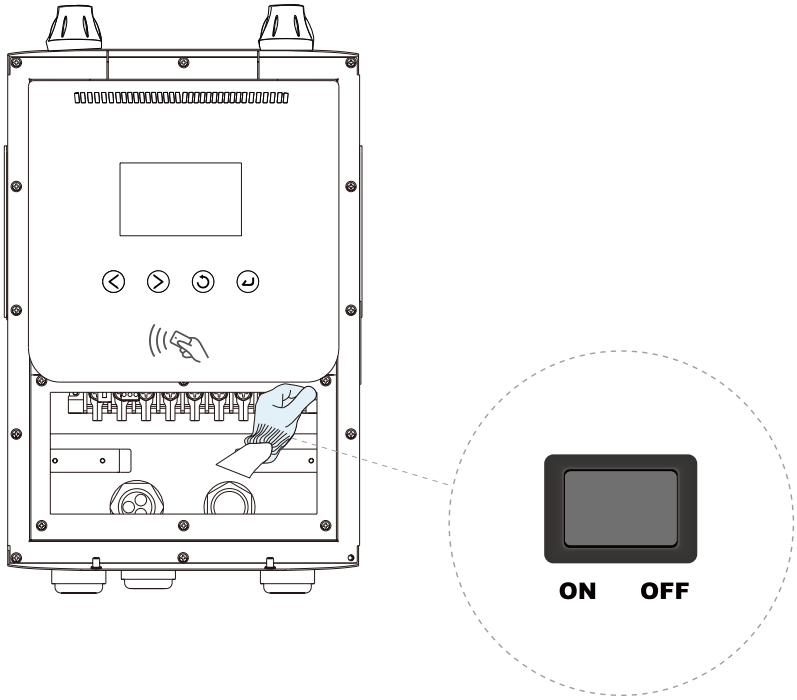
User Authentication	RFID	
	QR Code /APP	Optional
	ISO 15118 (Plug & Play)	Optional
Meter	On-board power meter Measurement error accuracy less than 1%	
Power Management	V2G	Optional
	Load balancing:single device	Optional
	Load balancing:operating stations	Optional
Memory	Flash rom (128M)	
	TF card memory expansion	
Real Time Clock	Supercapacitor	
Protection Function	CCID20	
	Over voltage protection	
	Under voltage protection	
	Over-current protection	
	Over load protection	
	Short circuit protection	
	Ground protection	
	Over-temp protection	
	Surge protection 6 kV @ 3,000A	

Protection Function	Fault self-test	
Environmental	Enclosure Protection: Type 4, IK08	
	Operating Temperature: -30 ~ 50℃	
	Storage Temperature: -40 ~ 75℃	
	Humidity: Up to 95%, non-condensing	
	Altitude: <2000m	
	Cooling Method: Natural Cooling	
Mechanical	Net Weight: ECA-NC8002S-SG80(14.7kg) ECA-NC8002S-DG40(16kg) ECA-NC8002S-DG80(21kg) [Weight based on 18ft cable length]	
	Product Outline Size:285.5*468.4*173.5mm	
	Cable Length:18ft or Customization	
Regulation	Safety Regulations:ETL（UL2231 UL2594 UL1998 UL991）	
	Metering & Billing:CTEP	
	Energy Efficiency:Energy Star	
	Wireless Certificate:FCC/IC	
Warranty	2 year Or Other	

5. Operate

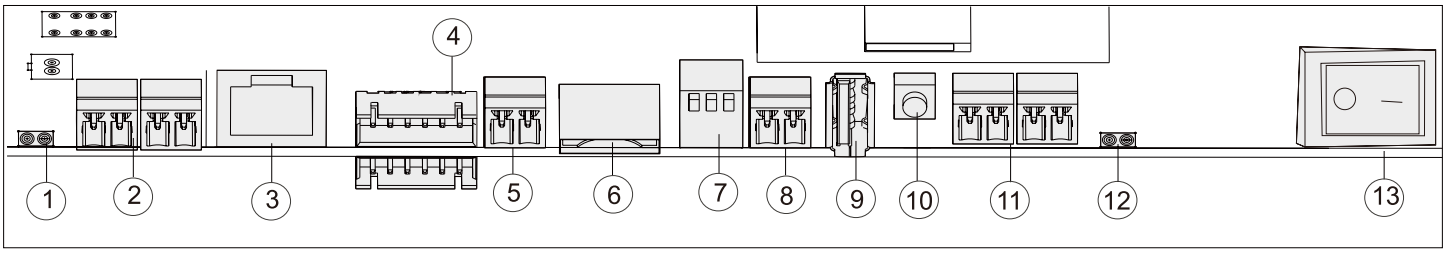
5.1 Switch

1. Check and make sure the mainboard power switch is off and that the fuse is there and installed. As shown below.



2. Turn off the power of this product, turn on the power switch of the mainboard; observe whether the boot interface of the product is normal.

5.2 About the Interface



NO.	Name	Function	Specification
1	Charge coupler A meter PF pulse output port.	Power pulse signal output interface	
2	Charge coupler A line Interface	CP signal, temperature signal, CC signal and power supply	
3	Ethernet Interface	10/100M ethernet network	
4	Download Interface	Debug port	Firmware burn-in port
5	485 Interface	M-bus protocol	
6	TF Interface	TF card interface	Micro SD
7	Power mode selection	Refer power mode setup instructions	
8	CAN Interface		
9	USB Interface	USB 2.0	
10	Reset button	Press the button for 5 seconds to clear WiFi SSID and Press the button for 10 seconds for factory recovery	
11	Charge coupler B line Interface	CP signal, temperature signal, CC signal and power supply	
12	Charge coupler A meter PF pulse output port	Power pulse signal output interface	
13	Power switch	Charging pile control power switch	
14	SIM card interface	Internet connection	4G Micro SIM

Charging with single pot version ECA-NC8002S-DG80/ECA-NC8002S-DG80 updates the rated current according to the DIP switch status, no reboot required

	□□□	□□□	□□□	□□□	□□□	□□□	□□□	□□□
ECA-NC8002S-DG80	16A+16A	24A+24A	32A+32A	40A+40A	1*80A/2*40A			
ECA-NC8002S-DG40					40A+40A			

Charging with dual pot version ECA-NC8002S-SG80 updates the rated current according to the DIP switch status, no reboot required

	□□□	□□□	□□□	□□□	□□□	□□□	□□□	□□□
ECA-NC8002S-SG80	16A	24A	32A	40A	48A	60A	80A	80A

Upstream Wiring Charging stations are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that for a maximum 48 A load at 208/240 V output to an electric vehicle, 60 A breakers are required.

Circuit breaker (amps)	Max output (amps)	Power output at 240 volts (kW)
100	80	19.2
75	60	14.4
60	48	11.5
50	40	9.6
40	32	7.6
30	24	5.7
20	16	3.8

6. Features

6.1 User Interface & Control

Take the ready state screen as an example to illustrate the meanings of common elements in the user interface interaction interface.

1. The electrical parameters are displayed in the upper left corner of the status bar, and the order from left to right is: charging power, voltage level, and rated current.

The charging power is calculated by multiplying the grid voltage and the rated current. The voltage level is automatically detected as “208VAC”or “240VAC”when powering on. Rated current can be set by dial switch. For details on dial settings, please refer to the interface introduction and instructions. .

2. The upper right corner of the status bar displays network communication parameters. From left to right, there are Bluetooth, 4G, WIFI, Ethernet and Fahrenheit icons in the charger. The Bluetooth icon only appears when a Bluetooth module is installed. If the 4G module is not installed, it is a gray lowlight icon, and if the 4G module is installed normally, it is a white high-light icon. WIFI is a gray lowlight icon if not connected, and a white high-light icon when WIFI is properly set up and successfully connected . Ethernet is a gray low-light icon if communication with the router is not established, and white high-light icon when successfully established. The temperature inside the stake has a white highlighted icon, it’s dynamic, and it’s displayed in degrees Fahrenheit.

3. Status prompts vary as per different language and different status.

4. Language switching prompt is unique to the “Ready “screen . When you touch the button below , you can switch between English and Spanish . Currently , these are the only two languages available.

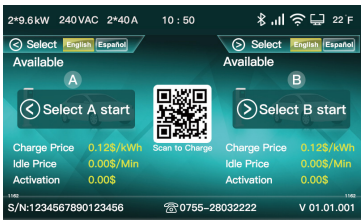
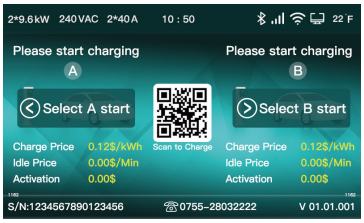
5. The operation status of charge coupler A is displayed on the left, and the operation status of charge coupler B is displayed on the right. After swiping the card, the user can choose which charge coupler to activate for operation through the touch button at the bottom of the screen.

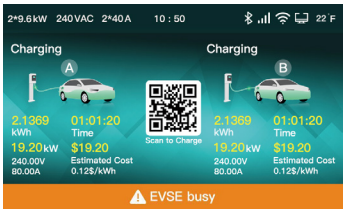
6. The main interface displays different content under each status.

7. Charging pile SN code -the unique code assigned at the time of delivery. The client can modify it through the server, but the uniqueness of the modification cannot be guaranteed.

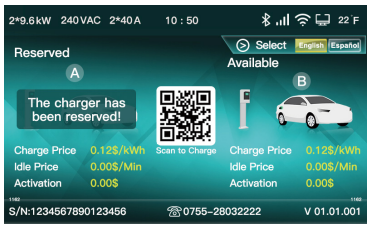
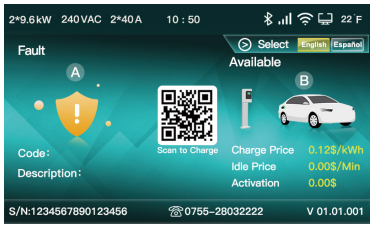
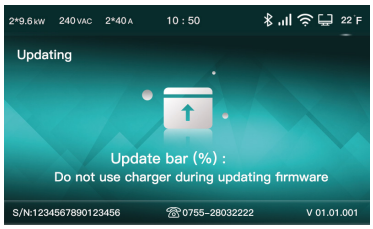
8. After-sales service telephone.

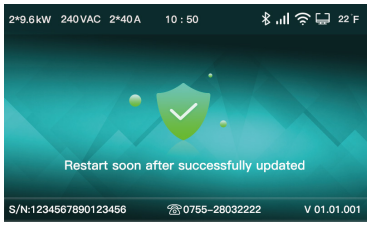
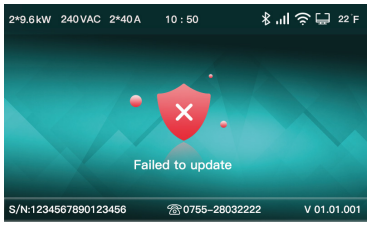
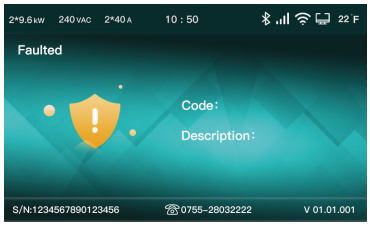
9. Software Version No.

Status	LED Description		Current Status Interactive Functions
Power On	After the red, green and blue colors flash once, yellow slow flash twice		No operation is recommended.
Available	Green always on		1. Enter to the available page after the bootup finished; 2. Touch the left and right keys to switch A and B cable languages respectively; 3. If there is no operation, the screen brightness will drop to 50% after 3 minutes; 4. There is cable insertion, card tapping platform interactive action screen and press any key brightness is 100%.
Charge Coupler Selection (Unplugged)	Green flash		1. If you tap the card in standby mode without plugging the cable, you will enter the cable selection (unplugged) interface; 2. Touch the left and right buttons to select A and B cables respectively, and enter the cable insertion interface after selection.
Charge Coupler Selection (Plugged)	Green flash		1. If you tap the card in standby mode with plugging the cable, you will enter the cable selection (plugged) interface; 2. Touch the left and right buttons to select A and B cables respectively, and enter the vehicle not ready interface after selection.

Connect the Charge Coupler to the Vehicle	Green flash		1. When a cable is not plugged in the standby state, and the user selects the cable for charging by tapping the card, APP activation, platform activation, etc. it jumps to the page that prompts the cable to be plugged; 2. The interface will stay for 1 minute, if the user does not insert the plug within 1 minute, it will return to the standby mode.
Vehicle not Ready	Blue slow flash		1. After inserting the coupler and charging, the S2 switch inside the car is not closed, and it is not ready for charging, will jumps to the car not ready page; 2. Enter the charging page when the car is ready; 3. If you unplug the charging cable at this time, the screen will return to the standby page.
Charging	Blue is always on		1. Enter the charging settlement page after successfully starting charging; 2.You'll be prompted to select a cable after the card is tapped; 3. Enter the charging completion interface after APP or platform stops charging; 4. Return to standby page with plugging out the cable.
Charging (Busy Electric Piles)	Blue is always on		1. After the charging is completed normally, enter the charging completion settlement page; 2. Unplug the charging cable or wait 1 minute to return to the standby page.

Complete	Purple is always on		1. After the charging is completed normally, enter the charging completion settlement page; 2. Unplug the charging cable to return to the standby page.
Fault Causes Charging to Stop	Unrecoverable fault: red is always on Recoverable fault: slow flashing red		1. If an abnormality occurs in the charging state, jump to the fault prompt page; 2. Return to standby page after unplugging charging cable.
Charge Coupler Disconnected	Purple slow flash		1. The plug is abnormally loose in the charging state, jumping to abnormal settlement page; 2. Hold for 1 minute and return to the standby page.
Reserved	Green slow flash		1. The user selects the electric pile in the APP, and enters the reserved page after operating the scheduled charging; 2. Only reserved users can start charging; 3. When non-reserved users start charging, it will prompt that the electric pile has been reserved; 4. After the scheduled time is exceeded, if the customer is not present for use, it will automatically return to the standby page.

Reminder to be Reserved	Green slow flash		1. Plugging in the cable in the booked state will prompt the device number have been booked; 2. The prompt disappears after unplugging the cable.
Charge Coupler Failure	Unrecoverable fault: red is always on Recoverable fault: slow flashing red		1. Pile body abnormality occurs in charging pile in non-charging state, jumping to the system fault interface; 2. Return to the standby page after the fault is resolved.
Out of Service	Yellow always on		1. In the standby state, will enter to out of service state when receive "stop use" command from the server; 2. Return to the standby state when receive "recover to use"command from server.
System Update	Yellow slow flash		1. Perform remote OTA in standby state, it will enter the upgrade page; 2. When the download is complete and the verification is successful, it will enter the upgrade success state; 3. During the download process, if the network is disconnected or the verification fails after the download is complete, it will enter to upgrade failure state; 4. After the upgrade is complete, the firmware version number in the bottom right corner will be updated.

System Update Succeeded	Yellow slow flash		1. After the update is successful, jump to the upgrade success page; 2. Wait for the device to reboot automatically, do not reboot manually.
System Update Failed	Red slow flash		1. If the upgrade fails, enter the upgrade failure prompt page; 2. Wait for 10 seconds and return to the state before the firmware upgrade.
System Fault	Unrecoverable fault: steady red Recoverable fault: slow flashing red		1. Pile body abnormality occurs in charging pile in non-charging state, jumping to the system fault interface; 2. Return to the standby page after the fault is resolved.

6.2 Configure WiFi Network (Currently no APP)

Internet configuration via WiFi and OCPP Authpass

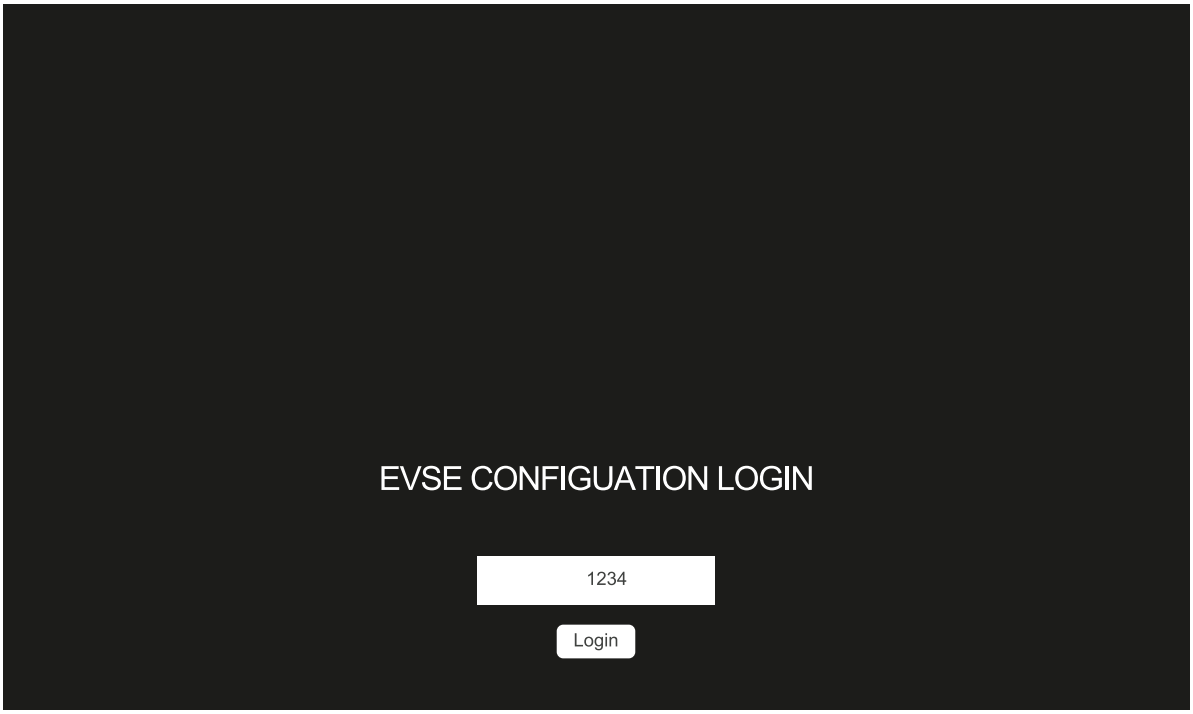
Take the laptop configuration charger parameters as an example, the introduction is as follows. (The method of setting parameters with a mobile phone is similar and will not be repeated).

- Step 1: Connect to WiFi Hotspot.

Keep your laptop in a state where it can connect to a WIFI hotspot. Turn on the charger, find the hotspot- named “ECA-NH”, and connect to it without a password. (If you do not find a hotspot named “ECA-NH”, please restart the power of the charging station.

- Step 2: Log in to Settings.

Open a web browser, preferably Google Chrome or Microsoft Edge, and fill in the - IP address “ 192.168.4.1” in the browser’s address bar. Press the Enter key to enter the page of EVSE CONFIGURATION LOGIN. (Note: Microsoft IE browser cannot visit).

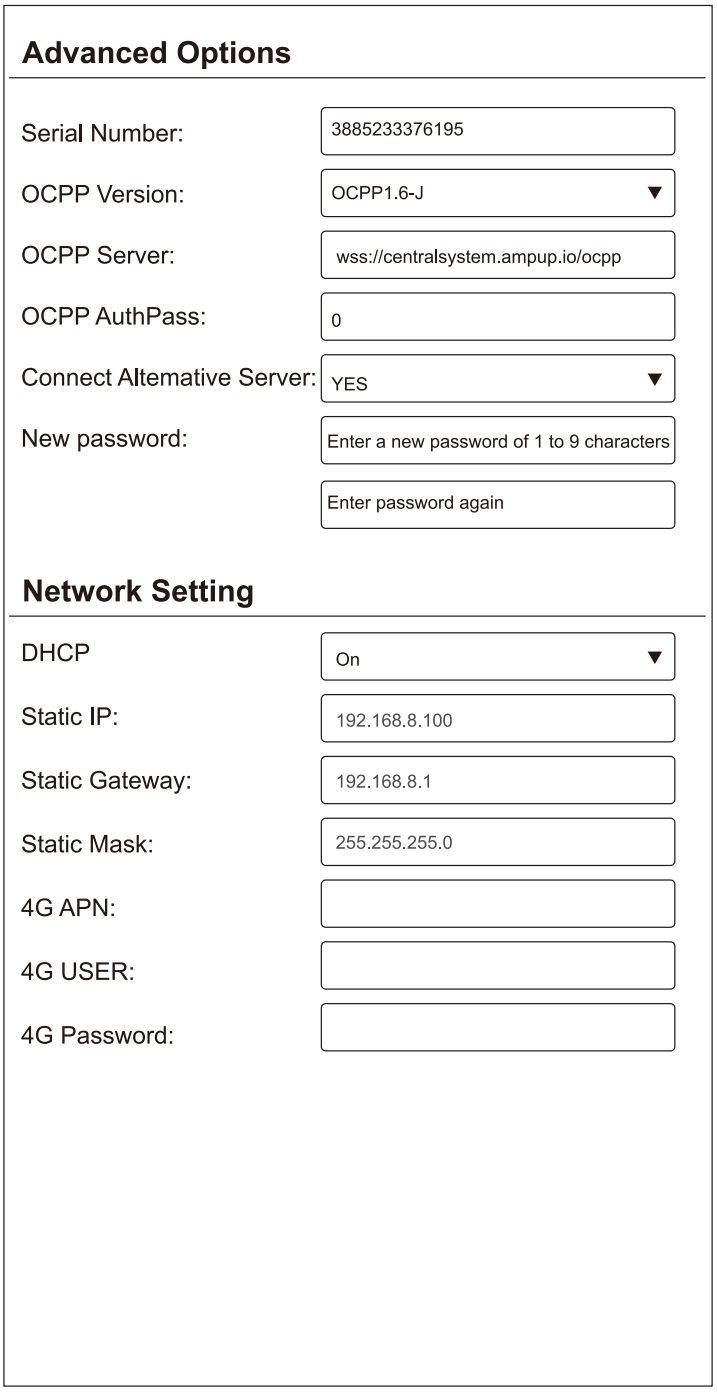


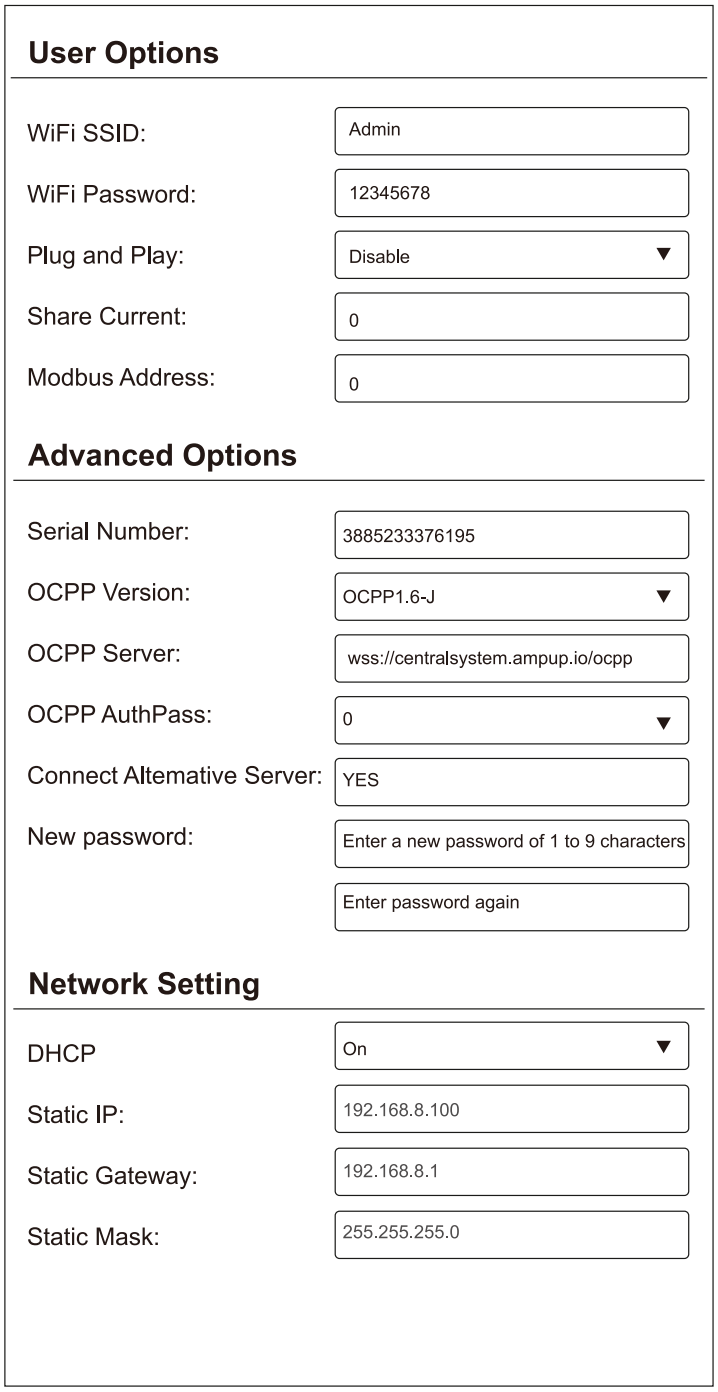
- Step 3: Configure Your EV Charger.

Fill in the default password from (PIN Code) the label on the panel charger. When you log in to this page for the first time, please change to a new login password,The new password can only be a 4-digit number.

Fill in the name of the hotspot and the password of your WIFI router on the web page, click the “SAVE” button to save the settings, and click the “RESTART” button to restart the charging pile to make the settings take effect. Once it takes effect, the charging pile can be accessed through your WIFI router the Internet.

EVSE CONFIGURATION





Fill in the name of the hotspot and the password of your WiFi router on the web page, click the “SAVE” button to save the settings, and click the “RESTART” button to restart the charging pile to make the settings take effect. Once it takes effect, the charging pile can be accessed through your WiFi router the Internet.

6.3 Operration Guide

1. Charging Preparation:

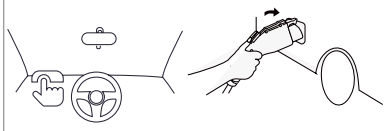
A. Find the charging pile product in the idle standby state, park the car, turn off the vehicle, and make the electric car in a chargeable state.

B. If choose to use APP: You can download the APP according to the prompts, and register an account according to the prompts.

C. If choose to use an RFID card: Contact the operator to obtain an RFID card; the private pile is equipped with an RFID card in the box.

2. To Connect The Charging Connector

Open the cover of the car charging socket, and connect the charging cable to the car socket stably. Make sure the connection is successful.



3. Start Charging

A. Plug and charge
The charging mode is configured as plug and charge, when step 2 is completed, the car is ready to start charging.

B. Tap card to start
Put the RFID card close to the card-tapping area to start charging by tapping the card, and tap the card again during the charging process to end the charging.

C. APP start and stop
Use the APP to scan the QR code to start charging, or connect to the electric pile through the Bluetooth of the mobile phone to start charging.

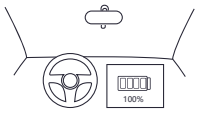
4. Charging:

During the charging process, the charging pile screen will display the charging voltage, charging current, charging time,

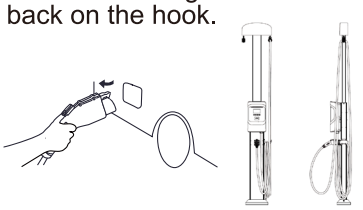
5. End Charging:

A. Through charging, the car owner can take initiative to end the charging through tap RFID card or stop on APP or can be stopped through the car terminal for plug-and-play charging situation.

B. After the car is fully charged, it can automatically end the charging.

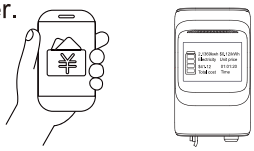


C. After the charging is completed, please pull out the charging coupler and put it back to the empty coupler-holder and hang the cables back on the hook.



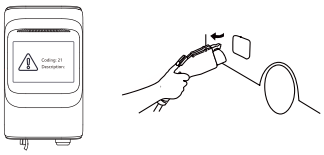
6. Order Settlement:

After the charging is completed, the display screen will display the charging power and charging cost. The order settlement will be completed on the APP or platform. Private piles and non-charging electric piles will display the charging power.



7. Abnormal Situation:

In any state, if there is abnormal prompt on the screen and the light bar, please stop charging and disconnect the charging cable from the socket on the car.



6.4 Troubleshooting

When a fault occurs, the charger will automatically protect. The fault information and processing methods are as follows.

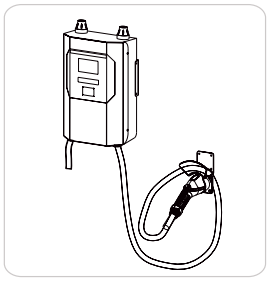
Fault Code	Handling Method
20 Flash Fault	The memory chip is damaged, you need to contact the after-sales service.
21 EEPROM Fault	The memory chip is damaged, you need to contact the after-sales service.
22 Emergency Stop Failure	Check that the emergency stop button is not pressed. Resolve the fault after restoring the emergency stop button.
23 Power Failure	Check whether there is any problem with the input power supply. Resolve the fault after restoring the power supply.
24 Ground Fault	The charging pile is not grounded, so the circuit needs to be tested.
25 Motherboard Over Temperature Alarm	The equipment temperature is too high. Resolve the fault after the temperature drops.
30/40 A/B Cable Meter Communication Fault	Internal communication line failure, need to contact the after-sales service.
31/41 A/B A/B Cable Input Undervoltage Alarm	Check whether the input cable is connected correctly; whether the grid voltage is abnormal.
32/42 A/B Cable Input Overcurrent Alarm	Check that the charging adapter is properly connected to the car and that the car charger is working properly.
33/43 A/B Cable Input Overvoltage Alarm	Check whether the input cable is connected correctly; whether the grid voltage is abnormal.
34/44 A/B Cable L1 On RLY Closure Fault	Damaged relay, need to contact after-sales service.
35/45 A/B Cable L2 On RLY Closure Fault	Damaged relay, need to contact after-sales service.
36/46 A/B Cable L1 On RLY Normal Opening Fault	Damaged relay, need to contact after-sales service.
37/47 A/B Cable L2 On RLY Normal Opening Fault	Damaged relay, need to contact after-sales service.
38/48 A/B Cable Relay NTC Alarm	The temperature measuring element is damaged, need to contact the after-sales service.
39/49 A/B Cable L1L2 NTC Alarm	Temperature measuring element is damaged, need to contact the after-sales service.
3A/4AA/B Cable Relay Over-Temperature Alarm	The relay temperature is too high. The fault will be resolved after the temperature drops.
3B/4B A/B Cable L1L2 Over-Temperature Alarm	L1L2 line temperature is too high. The fault will be resolved after the temperature drops.
3C/4C A/B Cable Leakage Current Fault	Check the charging adapter and its cable for damaged or wet. Recovery after fault. removal.
3D/4D A/B Cable Leakage Current Device Self-test Fault	Leakage detection equipment is damaged, need to contact the after-sales service.
3E/4EA/B Cable Input Overload Alarm	Check whether the charging adapter is correctly connected to the car and check whether the car charger is normal.

7 Install

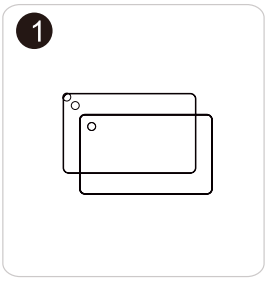
7.1 Label

7.2 Package

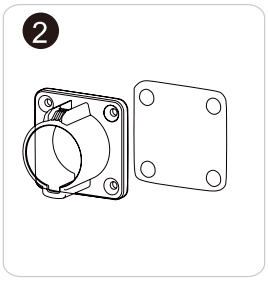
7.2.1 Packing List



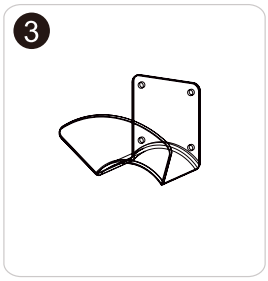
AC charger



RFID card
(2pcs)

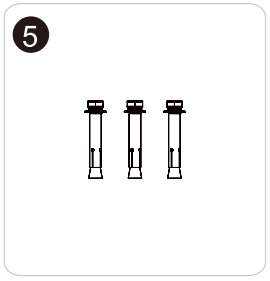


Coupler holder
(1pcs)

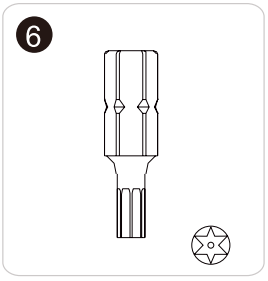


Cord holder
(1pcs)

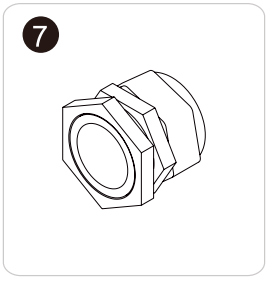
Torx self-tapping screws (8pcs)
Rubber Plug Expansion Tube (8pcs)



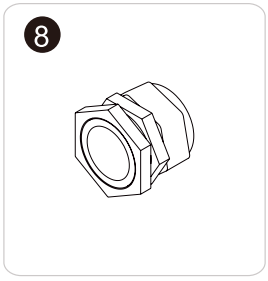
Expansion screw
(3pcs)



Electric drill bit
(1pcs)



3-hole waterproof connector
BN-M32-25 (1pcs)



3-hole waterproof connector
BN-M25-18 (1pcs)

7.2.2 Check and Confirm

When unpacking, please confirm the following points carefully: According to the packing list, whether the accessories are complete.

Whether there is any damage during transportation.

Whether the model and specification on the nameplate of the machine are consistent with the order requirements.

- ▷ If any damaged or missing parts are found, please do not start the machine and contact the supplier as soon as possible.
- ▷ Please keep the box and packaging materials for 1 month for future disposal. Paper packaging is recyclable.

7.3 Preparation

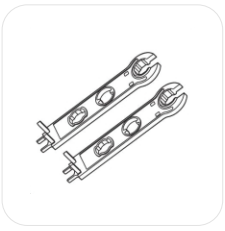
In order to ensure the long-term stable operation of the product, it is recommended to avoid the following installation problems.

- ▷ This product is an electrical device. Handle with care and avoid severe vibration and shock.
- ▷ EVSE cannot be transported by dragging the charging connector and charging cable.
- ▷ EVSE cannot be used in extreme weather, especially when the ambient temperature is too low or too high, which will affect the use of EVSE.

It is recommended to install EVSE in a ventilated and cool place away from direct sunlight and rain. To ensure good ventilation, you should install the EVSE vertically with enough space. Installation tools Before installing AC EVSE, you should at least prepare the following tools.

Multimeter


Electric impact drill
(D8mm+D6mm)


Wrench（10mm）


Wire strippers


AWG23-7
Tube terminal
crimping pliers


Phillips screwdriver
（D5mm）


Electric batch
(with plum blossom hole T20.T25 bit)


Marker pen


Utility knife

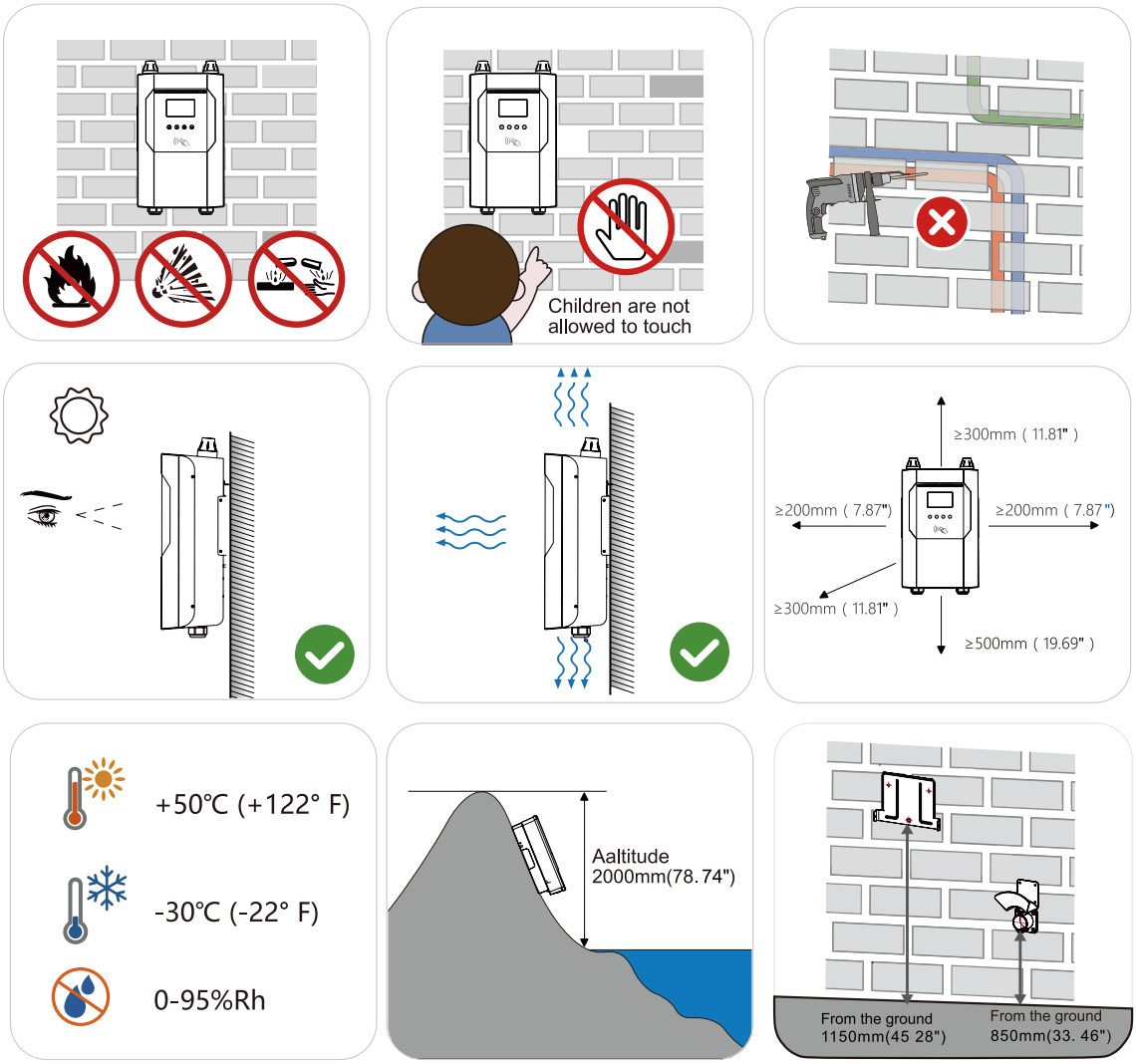

Anti-static bracelet


Heat coupler

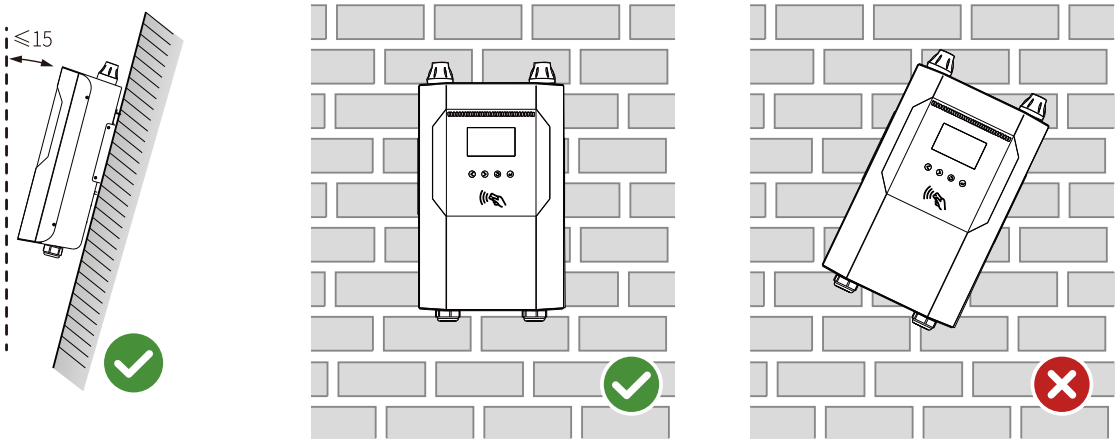

Rubber hammer

7.4 Installation Steps

Location Requirements

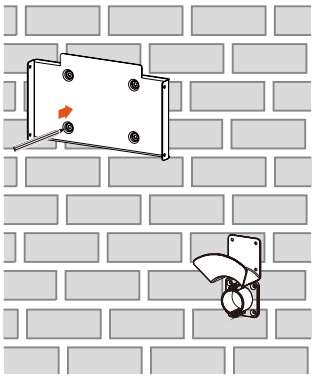


Angle Requirements

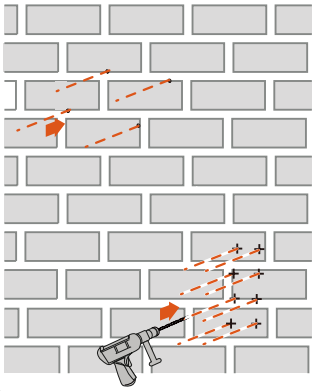


Wall-mounted Installation Steps

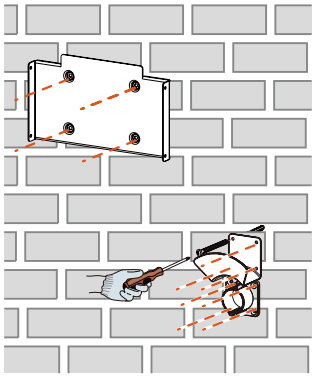
1 Install the wall-mounted version and trace holes on the wall



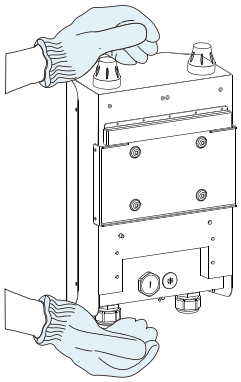
2 Punch holes in the wall



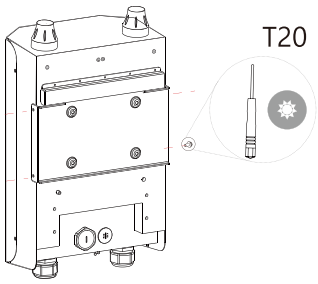
3 Install wall mounts, hanging plates and empty blocks



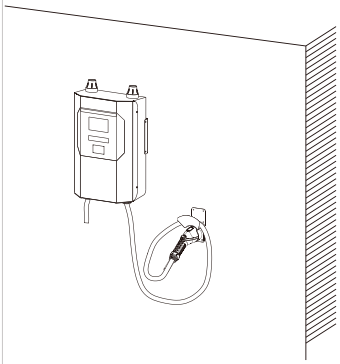
4 Install the pile body on the mounting plate



5 Set screw

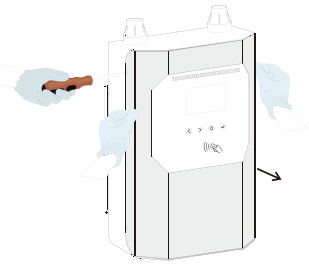


6 Installation pile completion diagram

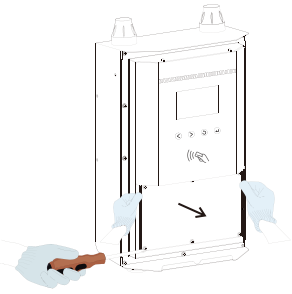


Bottom Wiring

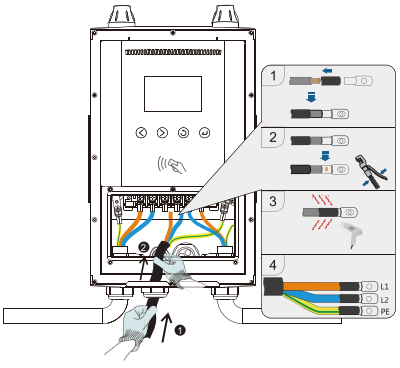
1 Remove decorative cover



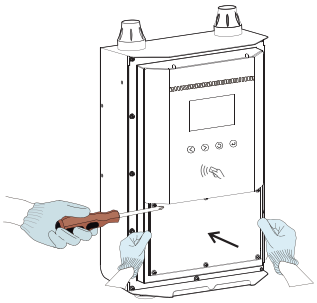
2 Remove wiring cover



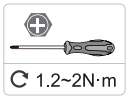
3 Input wire

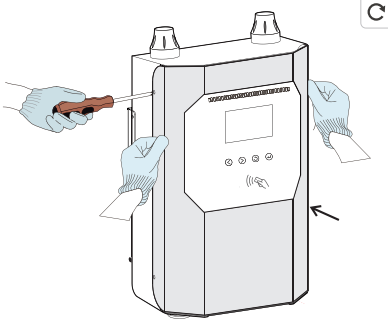


4 Installing decorative cover

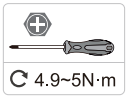


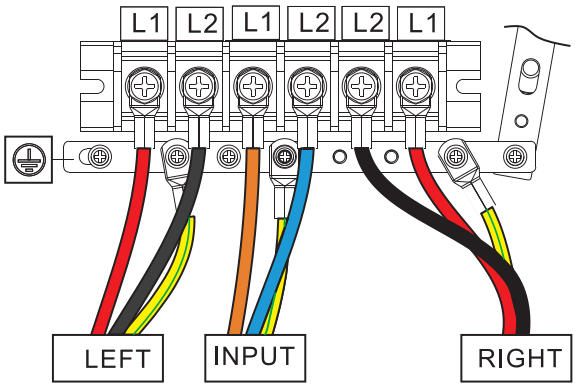
6 Installing wiring cover





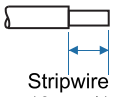
Copper cable cross-section: 3*4 AWG
Step 1 push up the back cover plate with hand.





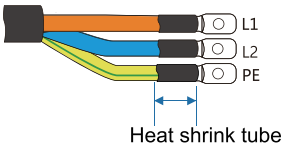
Input terminal wire size:
4 AWG straned

SC10-6

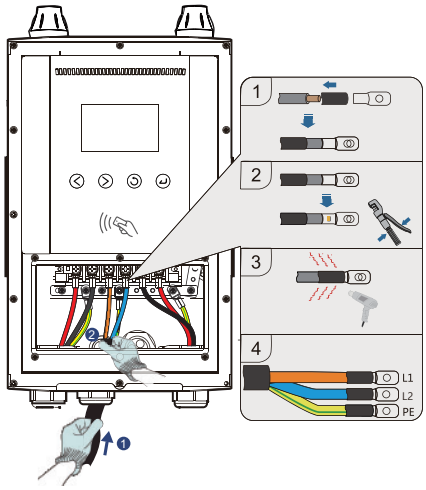


Stripwire
13 mm(1/2 in)

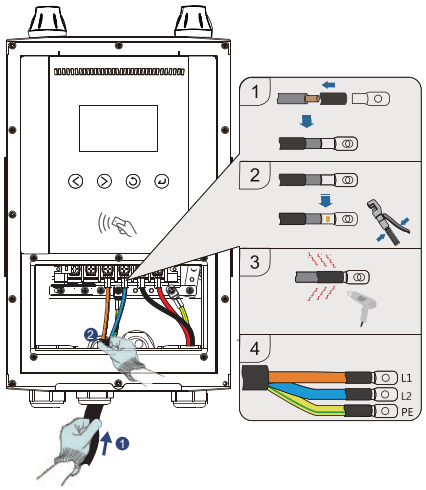
Live Wire L1: Brown
L1=105mm(4.2 in)
Neutral Wire L2: Blue
L2=105mm(4.2 in)
Earth Wire PE: Yellow and Green
PE=105mm(4.2 in)



Heat shrink tube
25.4 mm(1 in)



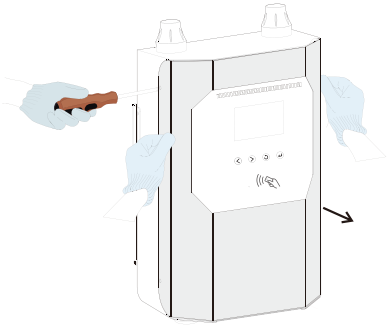
Dual Charge Coupler Input Wiring



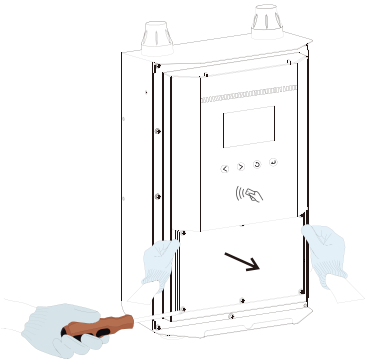
Single Charge Coupler Input Wiring

Back Wiring

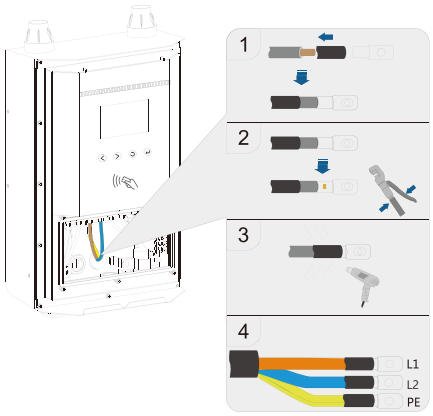
1 Remove decorative cover



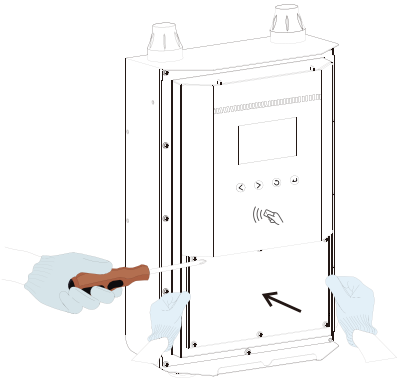
2 Remove wiring cover



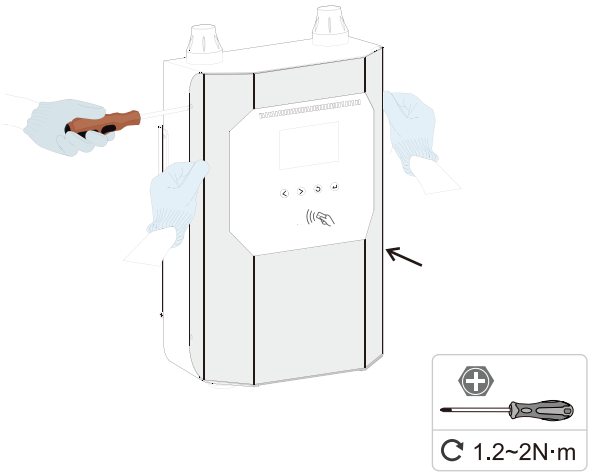
3 Input wire



4 installing decorative cover



5 Installing wiring cover



Color	Terminal
Brown	L1
Blue	L2
Yellow-green	PE

DANGER

If L1,L2, PE are connected incorrectly, it will not only damage the machine, but also create a potential shock hazard.

DANGER

In the TT, TN-C and TN-S system, make sure that the ground cable is connected reliably.
Otherwise, it may cause electric shock.

7.6 Maintainance

To ensure the long-term stable operation of the device, please perform regular (usually monthly) maintenance on the device according to the operating environment.

(a)Equipment is maintained by professionals.

(b)Check if the equipment is well grounded and safe.

(c)Check whether there are potential safety hazards around the charging pile, such as whether there are high-temperature, corrosive, or flammable and explosive items near the charger.

(d)Check whether the connection points of the input terminals are in good contact and whether there is any abnormality. Check other wiring points for looseness.

Warranty

1. The scope of the warranty refers to the product itself.
2. The warranty period is 24 months. During the warranty period, if the product fails or is damaged under normal use (determined by the company's technicians), the company will repair it free of charge.
3. The starting time of the warranty period is the production date of the product.
4. Even within the warranty period, if the following conditions occur, a certain maintenance fee will be charged.

Equipment failure caused for not operate according to the user manual.
Equipment damage caused by fire, flood, abnormal voltage, etc.
Equipment damage caused by abnormal function of the product.
Equipment damage caused by the entry of foreign objects.
Equipment damage caused by other human-made external factors.

5. The service fee shall be calculated according to the actual cost. If there is any other contract, this contract shall prevail.
6. During the warranty period, please be sure to keep this card and show it to the maintenance personnel.
7. If you have any questions, please contact the agent or our company directly.

For Both FCC & IC application:

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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 A 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 part 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 / IC RF exposure requirements, a separation distance of 20 cm 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.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puiss cm ou moins de la position centrale de l' antenne.
La FCC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son functionnement.