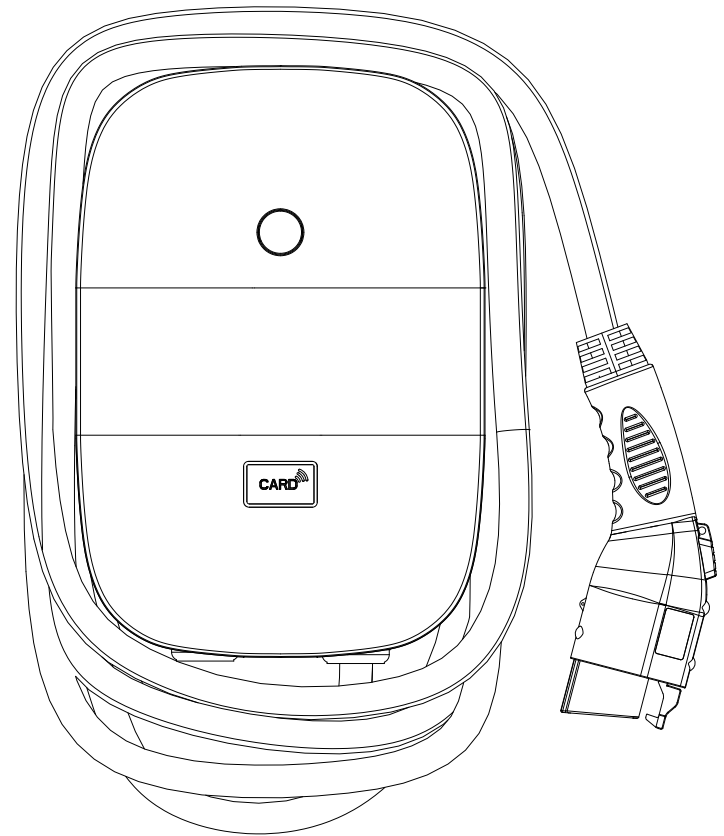


Electric Vehicle AC Charger

Instructions



 **WARNING**

IMPORTANT SAFETY INSTRUCTIONS

WARNING – This manual contains important instructions for Models:

EVC10 series that shall be followed during installation, operation and maintenance of the unit.

- a)** Read all the instructions before using this product.
- b)** This device should be supervised when used around children.
- c)** Do not put fingers into the electric vehicle connector.
- d)** Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- e)** Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
- f)** To reduce the risk of fire, connect only to a circuit provided with branch circuit over current protection in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI/NFPA 70 National Electrical Code (USA).

Circuit Breaker Options table

Output Amperage (A)	16A	32A	40A	48A
Circuit Breaker Options (A)	20A	40A	50A	60A

- g)** To avoid a risk of fire or electric shock, do not use this device with an extension cord.
- h)** THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PART I, RULE 4-012, IS TO BE DETERMINED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION
- i)** 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.

 **WARNING**

INSTRUCTIONS DE SÉCURITÉ IMPORTANTES

AVERTISSEMENT - Ce manuel contient des instructions importantes pour les modèles: EVC10 series qui doivent être suivies pendant l'installation, l'exploitation et l'entretien de l'unité.

- a)** Lire toutes les instructions avant d'utiliser ce produit.
- b)** Ce dispositif doit être surveillé lorsqu'il est utilisé autour des enfants.
- c)** Ne mettez pas les doigts dans le connecteur de véhicule électrique.
- d)** Ne pas utiliser ce produit si le cordon d'alimentation flexible ou le câble EV est effiloché, a cassé solation, ou tout autre signe de dommages.
- e)** N'utilisez pas ce produit si l'enceinte ou le connecteur EV est cassé, fissuré, ouvert ou montre toute autre indication de dommages.
- f)** Pour réduire le risque d'incendie, connectez-vous uniquement à un circuit doté de de la protection sur courant du circuit de branche conformément à l'ASC C22.1-15 Canadian Electrical Code, Partie 1 (Canada) ou NOM-001-SEDE Installations électriques (utilité) (Mexique) ou ANSI/NFPA 70 National Electrical Code (États-Unis).

Circuit Breaker Options table

Output Amperage (A)	16A	32A	40A	48A
Circuit Breaker Options (A)	20A	40A	50A	60A

- g)** Pour éviter un risque d'incendie ou de choc électrique, n'utilisez pas cet appareil avec une rallonge.
- h)** LA PERTINENCE DE L'UTILISATION DU CORDON FLEXIBLE CONFORMÉMENT AU CODE CE, PARTIE I, RÈGLE 4-012, DOIT ÊTRE DÉTERMINÉE PAR L'AUTORITÉ D'INSPECTION LOCALE AYANT COMPÉTENCE
- i)** Risque de choc électrique. N'enlevez pas le couvercle ou ne tentez pas d'ouvrir l'enceinte. Aucune partie utilisable par l'utilisateur à l'intérieur. Référez l'entretien au personnel de service qualifié.

⚠ WARNING

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.

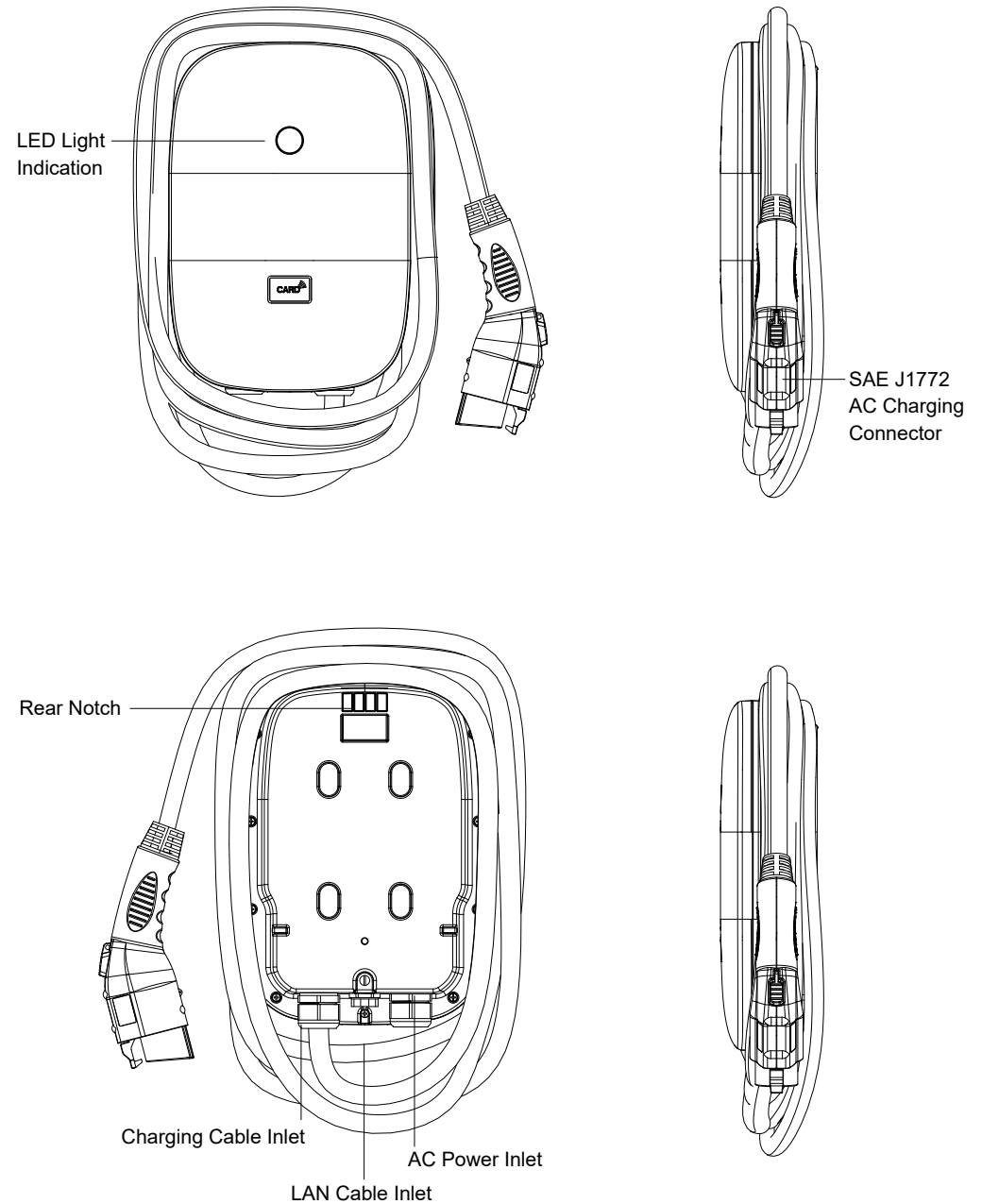
Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WIFI module : Contians FCC ID:2AC7Z-ESPWROOM32D
 LTE module : Contians FCC ID:XMR202008EC25AFXD

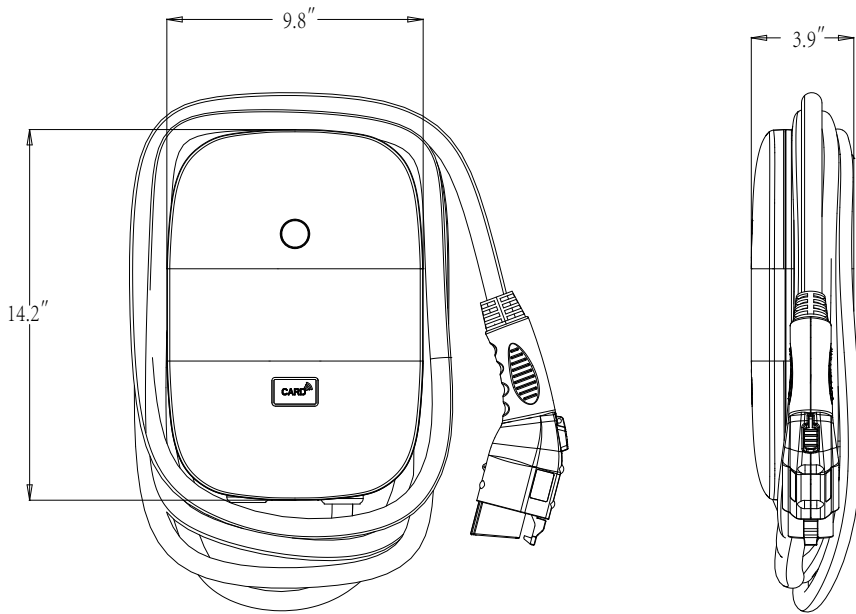
To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

2. Basic Interface

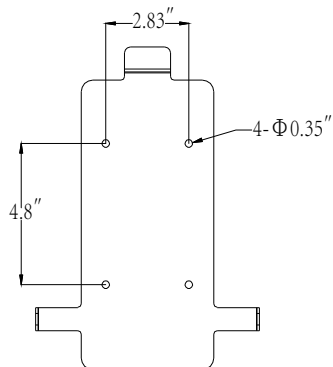


3. Dimensions

3.1 Main Size of Charger



3.2 Main Size of Charger



4. Design Standard

Safety standards
UL2594: Electric Vehicle Supply Equipment
UL 2231-1: Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements
UL 2231-2: Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems
UL 2251: Plugs, Receptacles and Couplers for Electric Vehicles
UL 62: Flexible Cords and Cables
UL 991: Tests for Safety-Related Controls Employing Solid-State Devices
UL 1998: Software in Programmable Components
NFPA 70 Article 625: National Electrical Code, Electric Vehicle Charging System
UL840 (Clearance and Creepage)

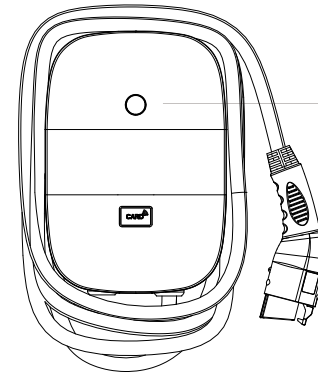
5. Specification

Model Name	EVC11 Version
Rated Input Voltage	200-240 VAC
Rated Output Current	16/32/40/48A
AC Power Frequency	60 Hz
Input Protection	UVP,OVP,RCD,SPD,Ground Fault Protection
Output Protection	OCP,OTP,Control Pilot Fault Protection
Output Interface	SAE J1772 AC Charging Connector
Storage Temperature	-40°C to + 70°C
Operation Temperature	-30°C to +50°C
Relative Operation Humidity	95%RH Maximum
Relative Storage Humidity	95%RH Maximum
RFID Authentication	LAN Version and Wi-Fi Version or 4G Version
RJ45 Cable Inlet*1	10M/100M Base-T
Wi-Fi Function*2	802.11 b/g/n
Cable Length	18FT (From charger's body to lower edge of charging connector)
Protection Level	Type 3
Installation Type	Wall-Mounted
Altitude	≤ 2000 m
Weight	5.5±0.5kg
Dimensions	14.2"x9.8"x3.9"
Status Indication	LED Red/Green/Blue

*1 LAN Version or Wi-Fi Version

*2 Wi-Fi Version

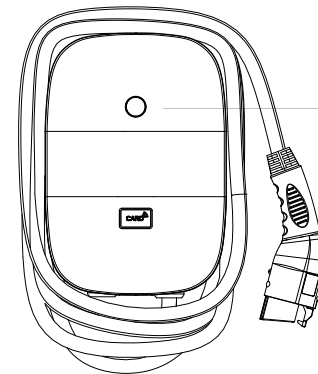
6. Status Description of the Charger Indication Light



● **READY**

Standby - Blue Light

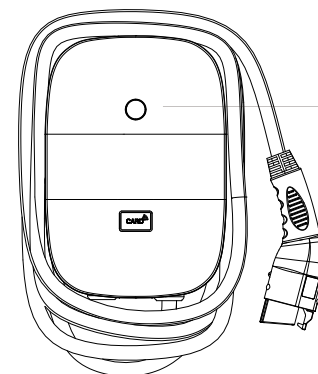
The READY light stays steady in standby mode.



● **CHARGE**

Waiting for Charging - Green Light

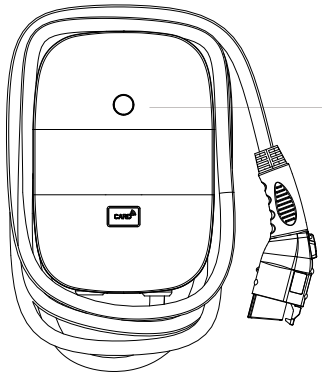
After the vehicle connector is connected to the vehicle inlet, the CHARGE light will constantly lit.



● **CHARGE**

Charging - Green Light Flashing

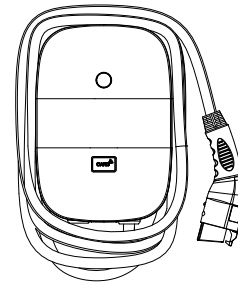
The CHARGE light flashes while charging.



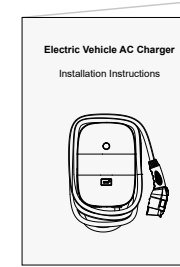
● **CHARGE**

Fault - Red Light

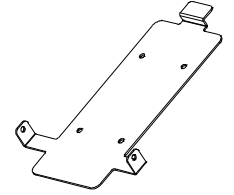
The red light is lit while fault. Please refer to "8.3 Error and Warning Messages" for detailed information.



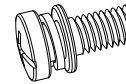
1



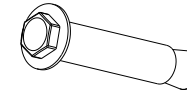
2



3



4



5



6

7. Packing List

7.1 Safety Requirements

- Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
- Use appropriate protection when connecting to the main power distribution cable.
- Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
- Disconnect switch for each ungrounded conductor of AC input shall be provided by others in accordance with the National Electric Code, ANSI/NFPA 70.

NO	Product Name	Quantity	Note
1	AC Charger (With Charging Cable)	1	
2	Wall-Mounted Bracket	1	
3	User Manual	1	
4	M5 teeth screws	2	
5	M6 Hexagonal Expansion Screws	4	
6	RFID Card (RFID Version Only)	2	

7.2 Wiring

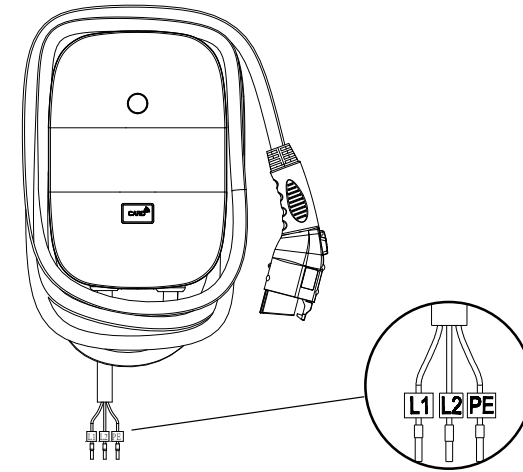
GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

IAVERTISSEMENT - Une mauvaise connexion du conducteur de mise à la terre de l'équipement peut entraîner un risque de choc électrique. Vérifiez auprès d'un électricien ou d'un technicien qualifié si vous n'êtes pas sûr que le produit soit correctement mis à la terre. Ne modifiez pas la fiche fournie avec le produit - si elle ne rentre pas dans la prise, faites installer une prise appropriée par un électricien qualifié.

For safe use of electricity, please add circuit breaker protection in the input part of charging pile. Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the PE lead to the grid PE (for all Version).



Circuit Breaker Options table

Output Amperage (A)	16A	32A	40A	48A
Circuit Breaker Options (A)	20A	40A	50A	60A

7.3 Tools and Materials Required

Tools required before installing the Wall-Mounted charger, gather the following tools:

- Wire stripper
- Crimpers for European terminals
- Phillips screwdriver for M5
- Slotted screwdriver for 4~5.5MM
- Adjustable Wrench M6
- Head gasket screw 10-10.5mm
- Voltmeter or digital multimeter (for measuring AC voltage at the installation site)
- The inserting cable should meet the best waterproof performance. It is recommended to use 3 core / 7AWG cable (XLPE or equivalent cable) to pull the cable from the distribution box.
- Level ruler
- Pencil or marker
- Machine drill

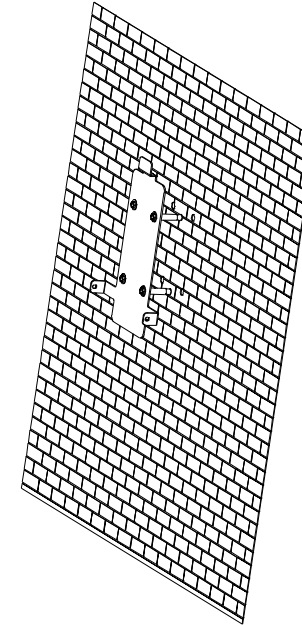
Installation Instructions

- “This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 600 mm (24 inches) and 1.2 m (4 feet) from grade.”
- “This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 450 mm (18 inches) and 1.2 m (4 feet) from grade.”

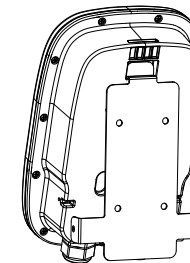
7.4 Wall-Mounted Bracket Installation

Step1 :

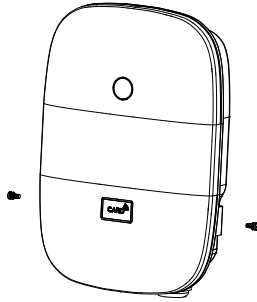
- Set the positions of the 4 screw holes and drill them, with a diameter of 9mm and a depth of 52mm.
- Use 4 sets expansion screw and M6 screw to fix the wall-mounted bracket on the wall.



- #### Step2 :
- Align the rear notch of charger into the wall-mounted bracket and fit the screw holes of the right and left side.



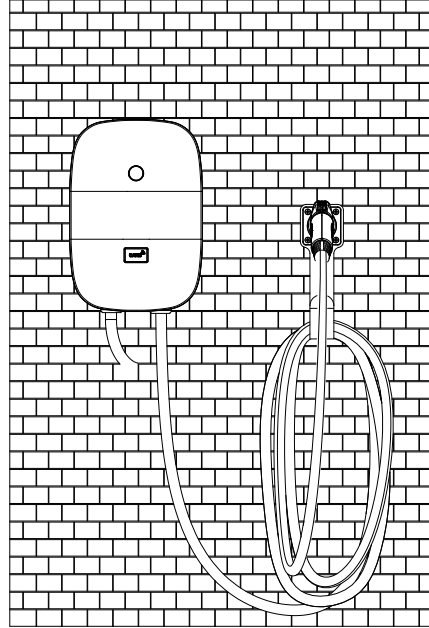
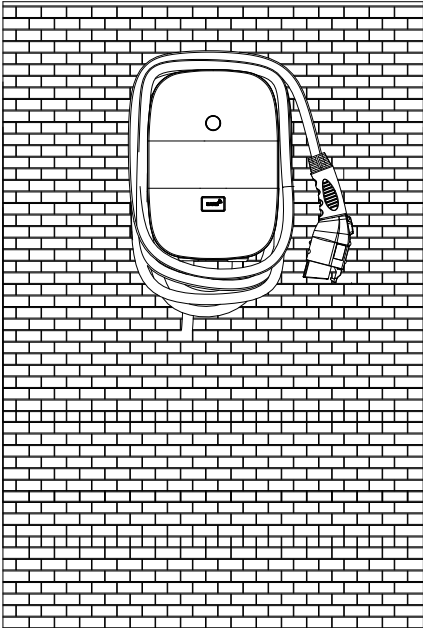
Step3 : Fix two M5 screws to complete the installation.



Overall outlook picture after installation:

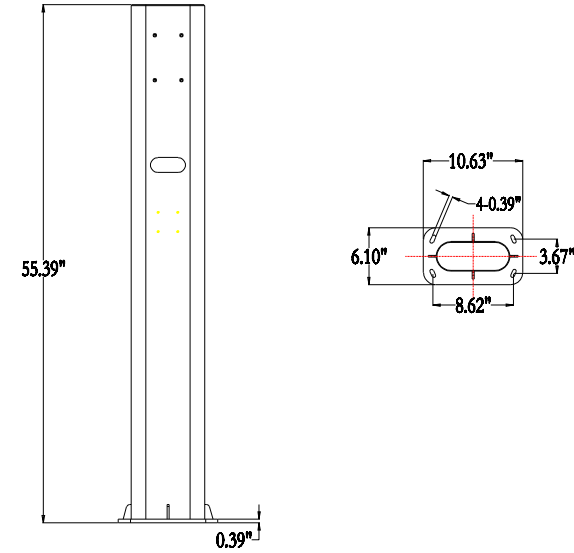
Wall-mounted cable winding

Optional cable hanging(optional accessory)



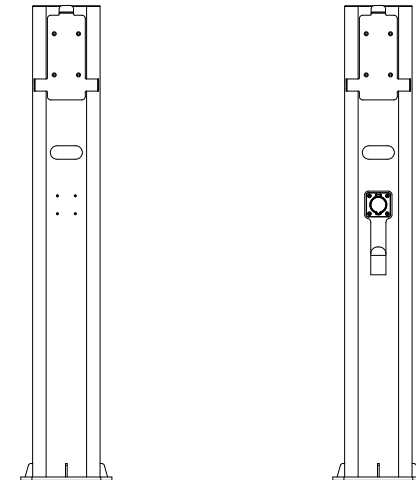
7.5 Wall-Mounted Bracket Installation

STEP1 : Align the pedestal with the screw holes and lock the pedestal



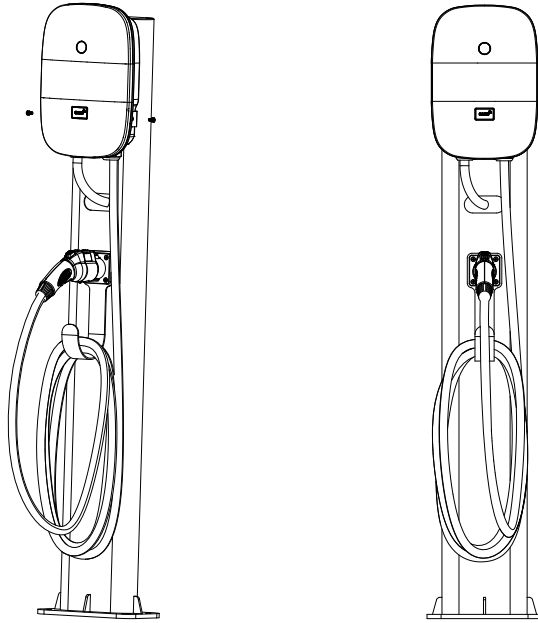
STEP2 :

- Tighten the panel with 4 M8 screws
- Tighten the hook with 4 M5 screws



STEP3 :

- Hook the charger to the panel and tighten it with 2 M5 screws
- Connect the power cable behind the pedestal



8. User Maintenance Instructions

Instructions for user maintenance shall include explicit instructions for all cleaning and servicing that are intended to be performed by the user, and shall be preceded by the heading “USER MAINTENANCE INSTRUCTIONS” or the equivalent.

8.1 Operating Procedures

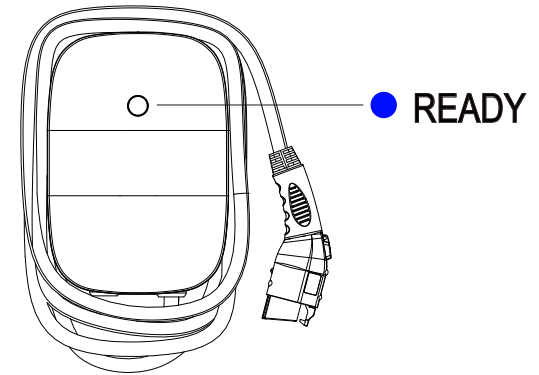
- User authorization
- Connect to Vehicle Charging Inlet
- Charging Message
- Charging completed

8.2 Operating Steps

8.2.1 Operating Steps With Plug The charger

STEP1 / Standby Mode

After power-on, blue(READY) ,green(CHARGE) and red light (FAULT) all lit. Enter standby mode and the blue light (READY) is steady on. The time from power on to the green light on is 90 seconds.



STEP2 / Plug The Gun

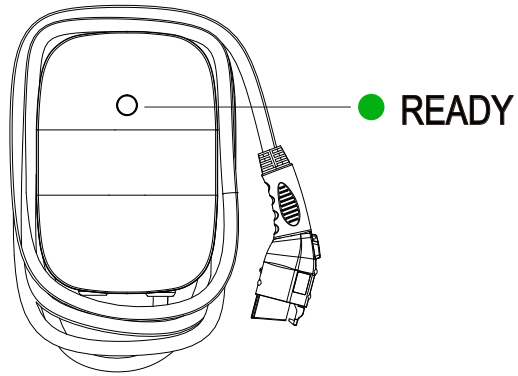
Please plug the charging connector into the vehicle charging inlet.



STEP3 / Charging

The green light (CHARGE) turns to flash automatically, charging is in process

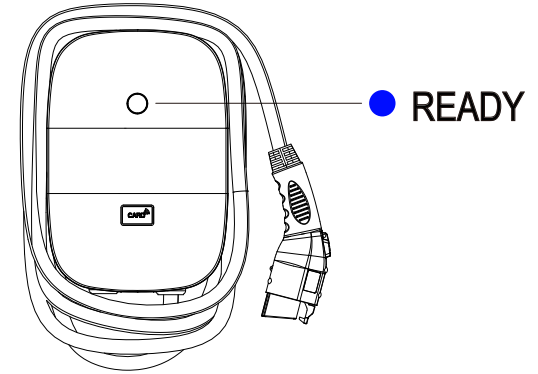
- If the red light (FAULT) is lit, plug the vehicle connector again.
- If red light is still lit, please refer to "Error and Warning Messages".



8.2.2 Operating Steps With RFID

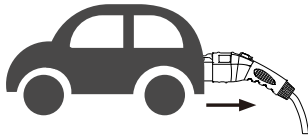
STEP1 / Standby Mode

After power-on,,blue(READY) ,green(CHARGE) and red light (FAULT) all lit. Enter standby mode and the blue light (READY) is steady on.The time from power on to the green light on is 90 seconds.



STEP4 / Charging Finished

When the charging is finished, the blue light (CHARGE) is constantly lit, press the button on connector to stop the charging.



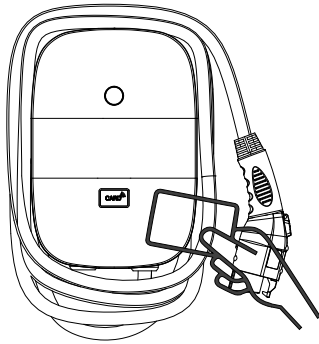
STEP2 / Plug In

Please plug the charging connector into the vehicle charging inlet.



STEP3 / Tap the RFID Card

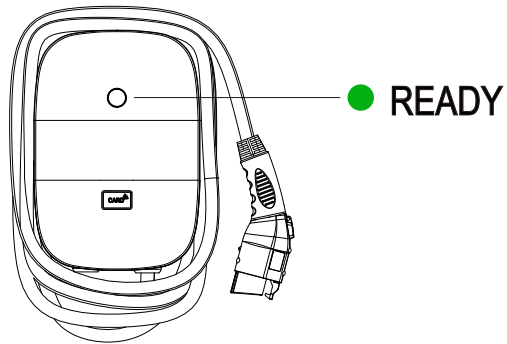
Tap the RFID card to start the charging.



STEP4 / Charging

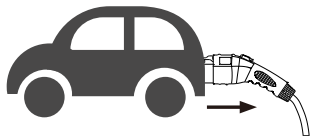
The green light (CHARGE) turns to flash automatically, charging is in process

- If the red light (FAULT) is lit, re-plug the vehicle connector again.
- If red light is still lit, please refer to "Error and Warning Messages".



STEP5 / Charging Finished

When the charging is finished, the blue light (CHARGE) is constantly lit, press the button on connector to stop the charging.



8.3 Error and Warning Message

Status	Blue	Green	Red	Remark
Input OVP	-	-	1 flashes followed by 3 sec pause	Auto Recover
Input UVP	-	-	2 flashes followed by 3 sec pause	Auto Recover
Output OCP	-	-	3 flashes followed by 3 sec pause	Auto Recover
OTP	-	-	4 flashes followed by 3 sec pause	Auto Recover
RCD Abnormal	-	-	5 flashes followed by 3 sec pause	Auto Recover
Ground Fault	-	-	6 flashes followed by 3 sec pause	Auto Recover
Control Pilot Fault	-	-	Flicker	Auto Recover
MCU Self-Test Fail	-	-	Constantly Bright	Contact Customer Service
RCD Self-Test Fail	-	-	Constantly Bright	Contact Customer Service
Relay Self-Test Fail	-	-	Constantly Bright	Contact Customer Service
RCD Abnormal Stop Charging	-	-	Constantly Bright	Contact Customer Service
Output OCP Stop Charging	-	-	Constantly Bright	Contact Customer Service
OTP Stop Charging	-	-	Constantly Bright	Contact Customer Service

9. Maintenance and Repair

9.1 Daily Maintenance

Please keep the charger clean and keep the charger in a clean area with low humidity. Do not install it in an environment near the sea, high humidity or high dust.

- Avoid moisture or water in the charger. If there is water or moisture ingress into the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professional personnel to carry out maintenance before next use.
- If there is any damage or dirt on the vehicle connector, charging cable, or vehicle connector holder, please contact the maintenance personnel immediately.
- Please use the charger properly. Do not hit or press hard on the case. If the case is damaged, please contact a professional technician.

- Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- Do not place external objects or heavy objects on the charger to avoid danger.

9.2 Maintenance Spares

- This charger is equipped with maintenance spares for maintenance use during and over the warranty period. All warranty services and repairs shall be and performed by certified service technicians authorized by Joint Technology. For details, please contact your local Joint Technology service partner or direct to our Customer Service. danger.

9.3 Warranty and Maintenance

- The warranty period for this charger is two years.
- Any spare parts provided by Joint Technology and used as replacements for repair are covered by a five years guarantee.
- Replacement and repair parts manufactured by alternative manufacturers to those on the maintenance parts are allowed if authorized by Joint Technology.
- After the event of any repair or maintenance under the warranty period, if there is no purchase to extend the warranty service, Joint Technology shall provide a three-month warranty period for any subsequent paid repair work.
- During the warranty period for any malfunction caused by normal use according to the User Manual and Service Instruction (to be determined by certified maintenance technicians of Joint Technology), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:
 1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
 2. Those who are unable to provide valid proof of purchase.
 3. Those who exceed the manufacturer's specified warranty period.
 4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
 5. Damage or malfunction caused by foreign object entering.
 6. Unauthorized repair, disassembly or modification.
 7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).

8. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment.

9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

- The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchantability, particular and applicable reasonableness and adaptability, etc.) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damages.