

Electric Vehicle AC Charger

Installation Instructions

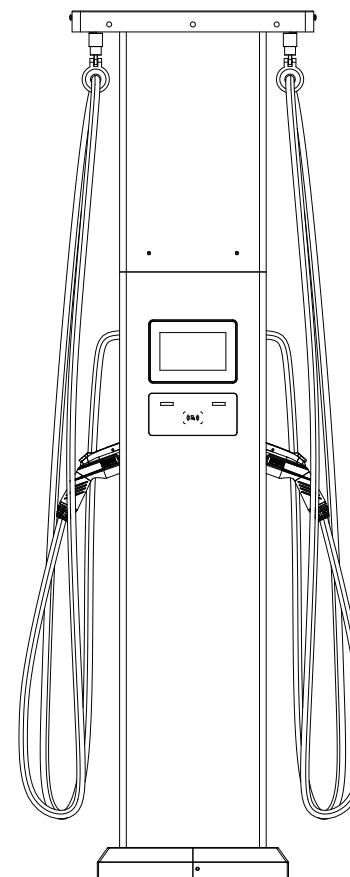








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WARNING & CAUTION

1. Important Safety Instructions

1.1 Overall Warnings & Cautions

-  **WARNING:** To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.
 - **DO NOT** put fingers into the electric vehicle connector.
 - **DO NOT** -use this product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.
 - **DO NOT** use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
 - **DO NOT** remove cover or attempt to open the enclosure because of risk of electric shock.
-  **WARNING:** This device should be supervised when used around children.
-  **WARNING:** This device must be grounded.
-  **WARNING:** To avoid a risk of fire or electric shock, do not use this device with an extension cord.
-  **WARNING:** 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.
-  **WARNING:** To reduce the risk of fire, connect only to a circuit provided 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.

⚠ WARNING & CAUTION**1.2 Installation Requirements**

- ⚠ WARNING:** Disconnect electrical power prior to installing the charging station.
- ⚠ WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- ⚠ WARNING:** The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
- ⚠ CAUTION:** Use appropriate protection when connecting to the main power distribution cable.
- ⚠ CAUTION:** Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
- ⚠ CAUTION:** The device shall be mounted at height between 600 mm and 1200 mm from ground.
- ⚠ CAUTION:** Please pay attention to the climatic conditions of the beach environment, such as high temperature, high humidity and other factors that may have a negative impact on the performance of EV charger, and consider using appropriate sun protection, moisture-proof and other equipment.

1.3 Daily Maintenance

- ⚠ CAUTION:** Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professionals to carry out maintenance before next use.
- ⚠ CAUTION:** Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
- ⚠ CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- ⚠ CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materia.
- ⚠ CAUTION:** Do not put heavy objects on the charger to avoid danger.

⚠ WARNING & CAUTION**Consignes De Sécurité Importantes****1.1 Avertissement & Mise En Garde Généraux**

- ⚠ AVERTISSEMENT :** Pour éviter les risques d'incendie, de blessure ou de mort, il faut lire et suivre soigneusement les instructions pendant l'installation, l'utilisation et l'entretien.
 - **Ne mettez pas** les doigts dans le connecteur du véhicule électrique.
 - **N'utilisez pas** ce produit si le cordon d'alimentation flexible ou le câble EV est effiloché, isolé ou présentant tout autre signe de dommage.
 - **N'utilisez pas** ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert ou montre toute autre indication de dommage.
- ⚠ Ne retirez pas** le couvercle et n'essayez pas d'ouvrir le boîtier en raison du risque de choc électrique.
- ⚠ AVERTISSEMENT :** Cet appareil doit être surveillé lorsqu'il est utilisé à proximité d'enfants.
- ⚠ AVERTISSEMENT :** Cet appareil doit être mis à la terre.
- ⚠ AVERTISSEMENT :** Pour éviter tout risque d'incendie ou de choc électrique, n'utilisez pas cet appareil avec une rallonge électrique.
- ⚠ AVERTISSEMENT :** L'adéquation de l'utilisation du cordon flexible conformément au code ce, partie i, règle 4-012, doit être déterminée par l'autorité d'inspection locale compétente.
- ⚠ AVERTISSEMENT :** Pour réduire les risques d'incendie, ne connecter qu'à un circuit protection contre les surintensités des circuits de dérivation conformément à la norme canadienne CSA C22.1-15 Code électrique, partie 1 (Canada) ou NOM-001-SEDE Installations électriques (Mexique) ou ANSI / NFPA 70 National Electrical Code (États-Unis).

⚠ WARNING & CAUTION**1.2 Exigence Avant L'installation**

- ⚠ AVERTISSEMENT** : Assurez-vous de consulter le manuel d'utilisation et assurez-vous que les codes locaux du bâtiment et de l'électricité sont passés en revue avant d'installer le chargeur.
- ⚠ AVERTISSEMENT** : Débranchez l'alimentation électrique avant d'installer la station de charge.
- ⚠ AVERTISSEMENT** : Le chargeur CA doit être installé par un technicien qualifié conformément au manuel d'utilisation et aux réglementations de sécurité locales.
- ⚠ MISE EN GARDE** : Utilisez une protection appropriée lors de la connexion au câble de distribution d'alimentation principal.
- ⚠ MISE EN GARDE** : Un disjoncteur de type B, C ou D avec le courant nominal indiqué dans le tableau doit être installé dans le boîtier de distribution CA en amont.
- ⚠ MISE EN GARDE** : Cet appareil doit être monté à une hauteur entre 600 mm et 1200 mm du sol.
- ⚠ MISE EN GARDE** : S'il vous plaît prêter attention aux conditions climatiques de l'environnement de la plage, telles que la température élevée, l'humidité élevée et d'autres facteurs qui peuvent avoir un impact négatif sur la performance du chargeur EV, et envisager d'utiliser une protection solaire appropriée, étanche à l'humidité et d'autres équipements.

1.3 Entretien Quotidien

- ⚠ MISE EN GARDE** : Évitez l'humidité ou l'eau dans le chargeur. En cas d'infiltration d'eau ou d'humidité dans le chargeur, il est nécessaire de l'éteindre immédiatement pour éviter tout danger immédiat et d'avertir le personnel professionnel d'effectuer l'entretien avant la prochaine utilisation.
- ⚠ MISE EN GARDE** : Veuillez utiliser le chargeur correctement. Ne frappez pas ou n'appuyez pas trop fort sur le boîtier. Si le boîtier est endommagé, veuillez contacter un technicien professionnel.
- ⚠ MISE EN GARDE** : Évitez de placer le chargeur à proximité d'objets chauds et à des endroits à haute température et loin de substances dangereuses telles que des gaz inflammables et des matériaux corrosifs.
- ⚠ MISE EN GARDE** : Ne placez pas d'objets lourds sur le chargeur pour éviter tout danger.

⚠ WARNING & CAUTION**2. Product Introductions**

CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

This manual describes the installation and use of the EVCP5. Prior to installation, read through this manual to be familiarized with the instructions of this EVCP5 to ensure a successful installation and smooth operations.

2.1 Conventions

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

Tap OK.**Notes**

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

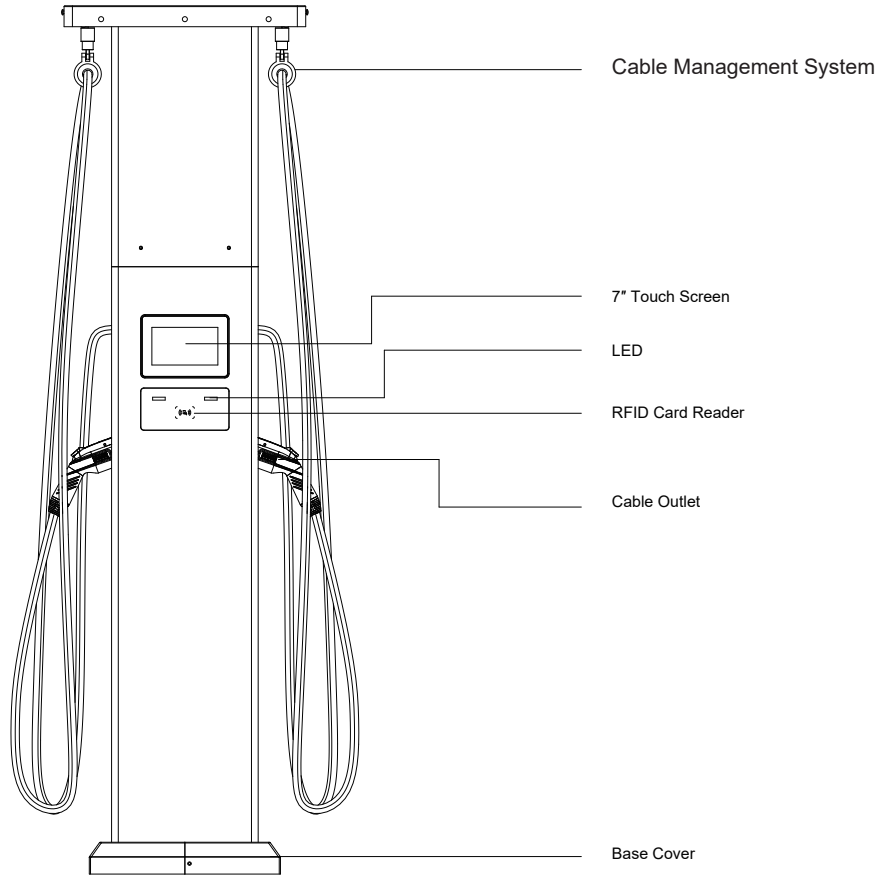
⚠ NOTE

The images and illustrations depicted in this manual may differ slightly from the actual ones.

Illustrations

Illustrations used in this manual are only examples; the actual product(s) or screens may vary.

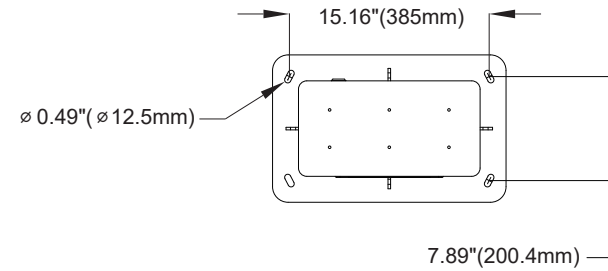
2.2 Base Interface



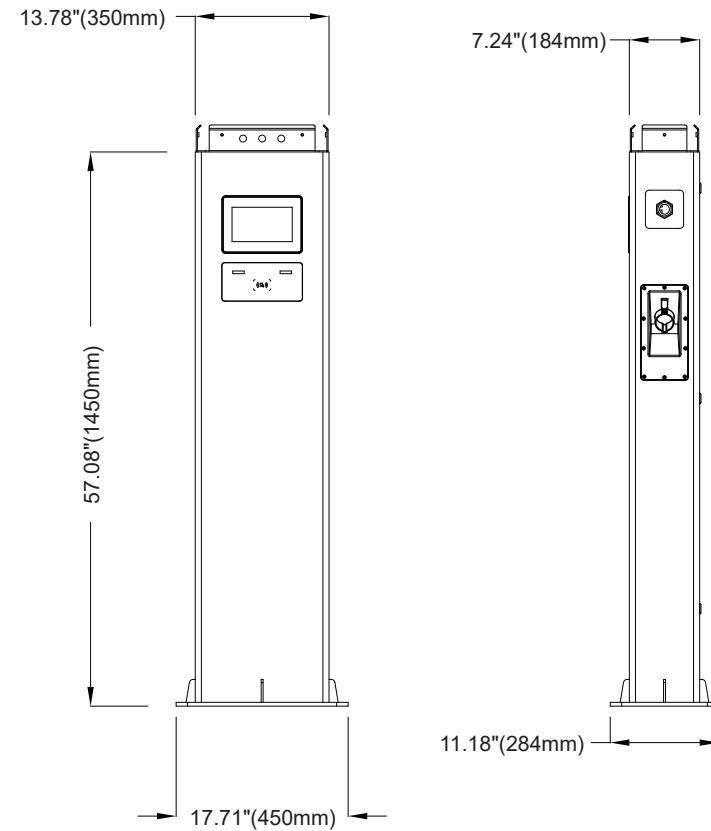
2.3 Base Dimension

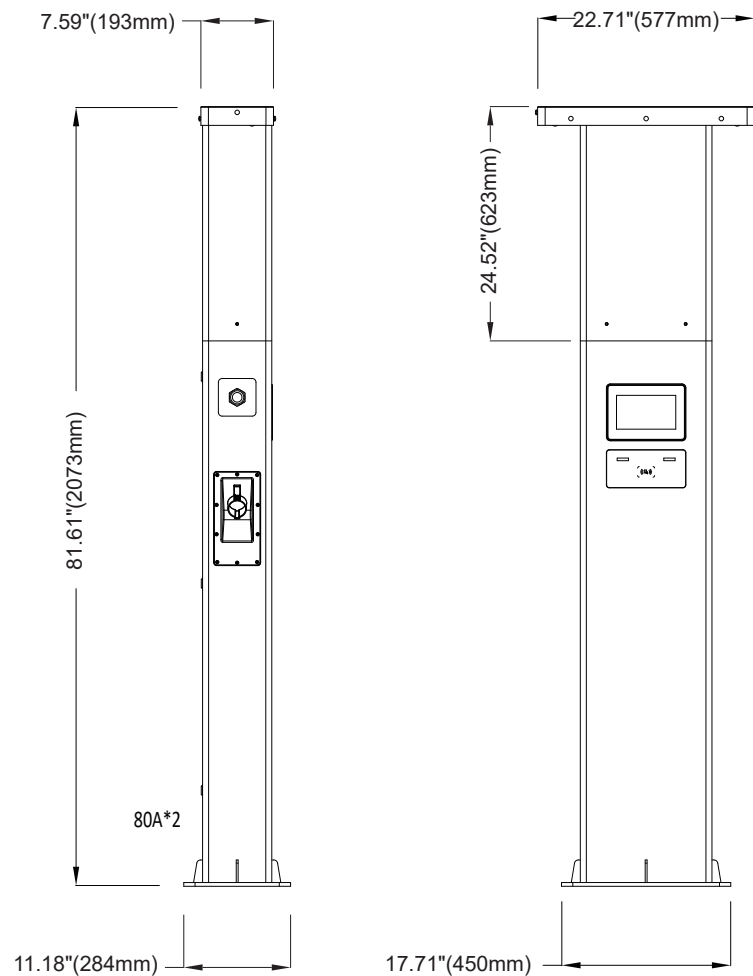
Unit example 15.16 (385mm) indicates :15.16 inch also indicates 385mm.

2.3.1 Baseplate



2.3.2 Enclosure and Base Cover




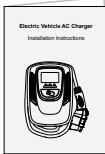
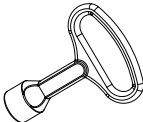



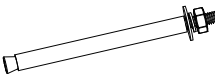
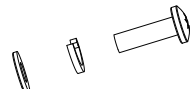
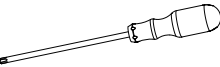
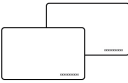
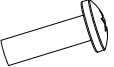
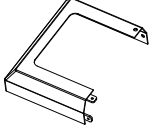
2.4 Specification

Model Number	EVCP5 Version
Rated Input Voltage	208/240VAC
Rated Output Current	80A*2
AC Power Frequency	60 Hz
Input Protection	UVP, OVP, CCID20, SPD, Ground Fault Protection
Output Protection	OCP, OTP, Control Pilot Fault Protection CCID20, Ground Fault Protection
Output Interface	SAE J1772AC Charging Connector
Storage Temperature	-40°F to 158°F
Operation Temperature	-22°F to 122°F
Relative Operation Humidity	95% RH Maximum
Relative Storage Humidity	95% RH Maximum
Network Connection	LAN Version / Wi-Fi Version / 4G version
Internet Function	10M / 100M Base-T
Wi-Fi Function	802.11 b/g/n
3G / 4G Function	GSM / 3G / 4G
Cable Length	18ft
Protection Level	Type 3
Installation Type	Column Mounting
Altitude	≤6561ft
Status Indication	Red, Green, Blue LED
Status Display	7" Touch Screen

3. Verify Contents

The following items are supplied along with the charger body. Please read the user manual before proceeding.



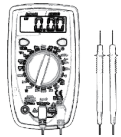



No.	Product Name	Quantity	
1	AC Charger	1	
2	User Manual	1	
3	Lock key	3	
4	2.4 Cable Clamp	2	

5	M10*150mm Expansion Screw	4	
6	M6*20mm (spring washer / flat washer)	6	
7	M6 Philips Screwdriver	1	
8	RFID Card (RFID Version Only)	2	
9	M6*20mm	4	
10	Base Cover Plate	2	

4. Gather Tools

Note:

The list above does not necessarily include all the tools required for installation. We recommend you read through the installation procedure and gather all the tools needed prior to installation.

Wire stripper	
Adjustable Wrench	
Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)	
OT Terminal crimping pliers	
Drill	
Phillips screwdriver	

5. Wire The Circuit



WARNING: This device must be grounded. Disconnect electrical power prior to installing the charging station.



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



CAUTION: Use appropriate protection when connecting to the main power distribution cable.

For safe use of electricity, please set circuit breaker protection in the input part of EV Charger. The wiring is not complicated, just need to follow the instructions below: cable.

5.1 Special instructions for circuit breaker installation

Note1:

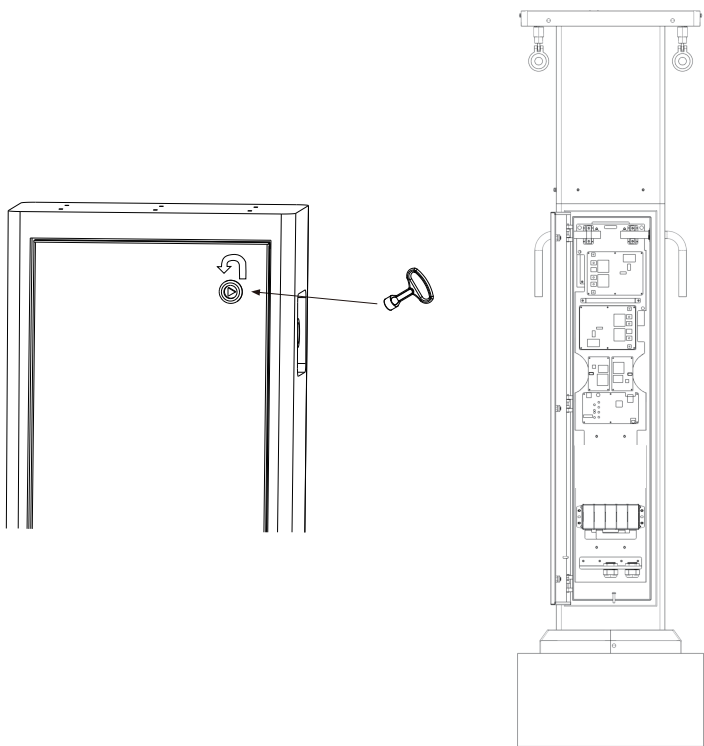
Device instruction:

1. To ensure safe use of electricity, it is recommended to set up circuit breaker protection on the input part of the electric vehicle charger. The disconnecting means shall be provided and installed in a readily accessible location. The disconnecting means shall be capable of being locked in the open position. The provisions for locking shall remain in place with or without the lock installed.
2. Purchase an additional circuit breaker separately to install.
3. The rated current of the electric vehicle charger is 80A*2.
4. To protect the plastic case, it is recommended to use a circuit breaker with a current rating of at least 200A or 100A*2.
5. You can choose between a molded case circuit breaker or a circuit breaker with leakage protection function. The leakage protection circuit breaker can also be used as an option for added safety.

5.2 Input Line Installation

Wiring Preparation

To ensure personal safety when using electricity, it is important to note that only professionals should handle the opening of the charger. The installer will use the lock key provided with the accessory to access the charger.



Power Cord Installation

Method 1: One AC Power circuits connected to the charger. Shorting terminals are installed on the device before leaving the factory and It is recommended to install in Method 1.

Method 2. Two AC Power circuit connected to the charger.

Method 1: One AC Power Cord

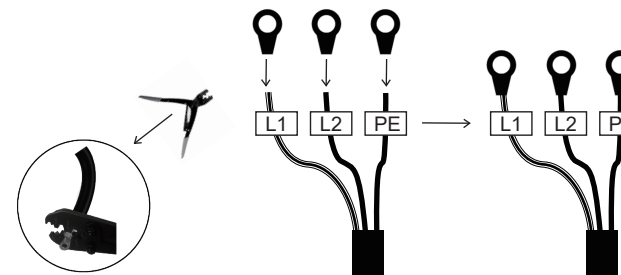
! Note:

1. One AC Power Cord and one Charging Cable (Using shorting terminals to connect AC1_L1 and AC2_L1, connect AC1_L2 and AC2_L2).
2. Please note that AC Power Cord Interface P1 is commonly used AC1 cable and the P2 is a spare.
3. When single-wire input, the specification of AC1 input wire should use 2 AWG, 75 °C or 90 °C copper wire.
4. The following circuit breaker options table is recommended.

Output Amperage (A)	80A*2
Circuit Breaker Options (A)	200A

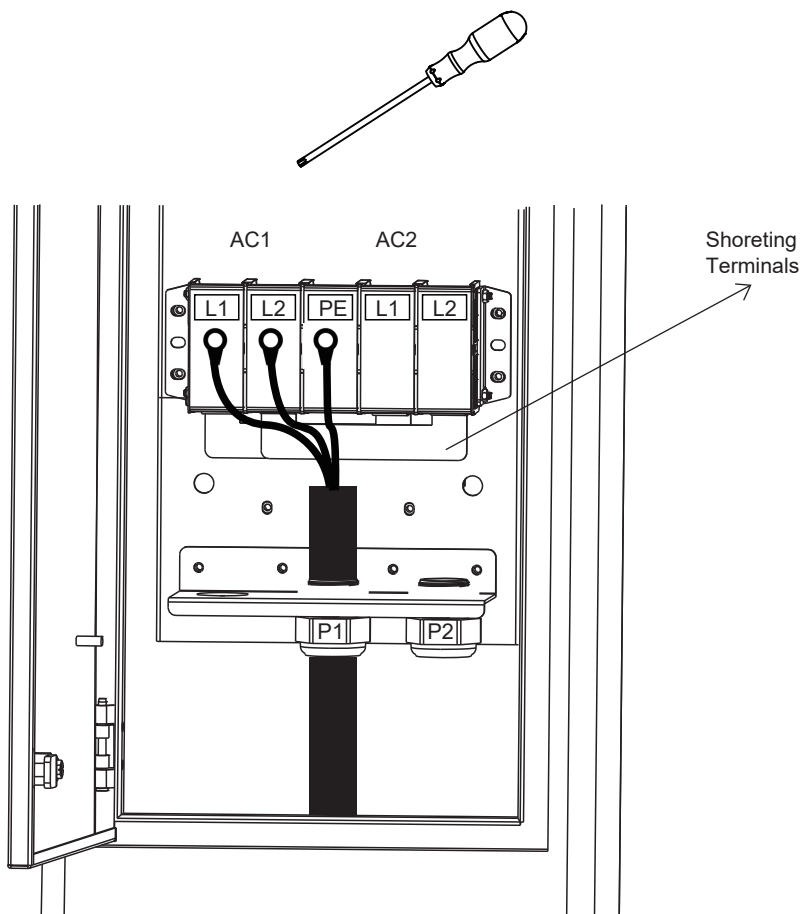
STEP 1

Please take out the ring terminals on accessory pack and put it on the heads of AC power cord of PE/L2/L1; Use OT Terminal crimping pliers to clamp the ring terminals onto AC power cord.



STEP 2

connect AC1_L1 and AC2_L1, and connect AC1_L2 and AC2_L2 according to the following wiring methods image (1.2N.m/10.53Lb.in).



Method 2: Two AC Power Cord

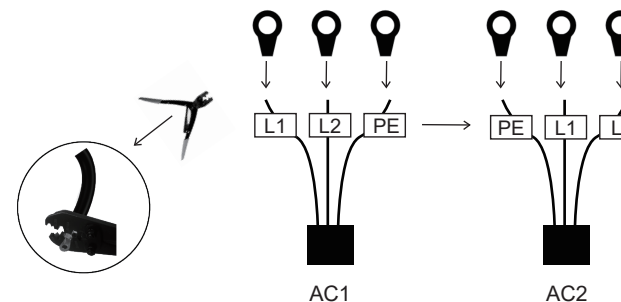
Note:

1. Two AC Power Cord and two Charging Cable (Shorting Terminals need to be removed).
2. Please note that AC Power Cord Interface P1 is used AC1 cable and the P2 is used AC2 cable.
3. The specifications of AC1 and AC2 input wires should use 6 AWG, 75 °C or 90 °C copper wire.
4. The following circuit breaker options table is recommended.

Output Amperage (A)	80A*2
Circuit Breaker Options (A)	100A*2

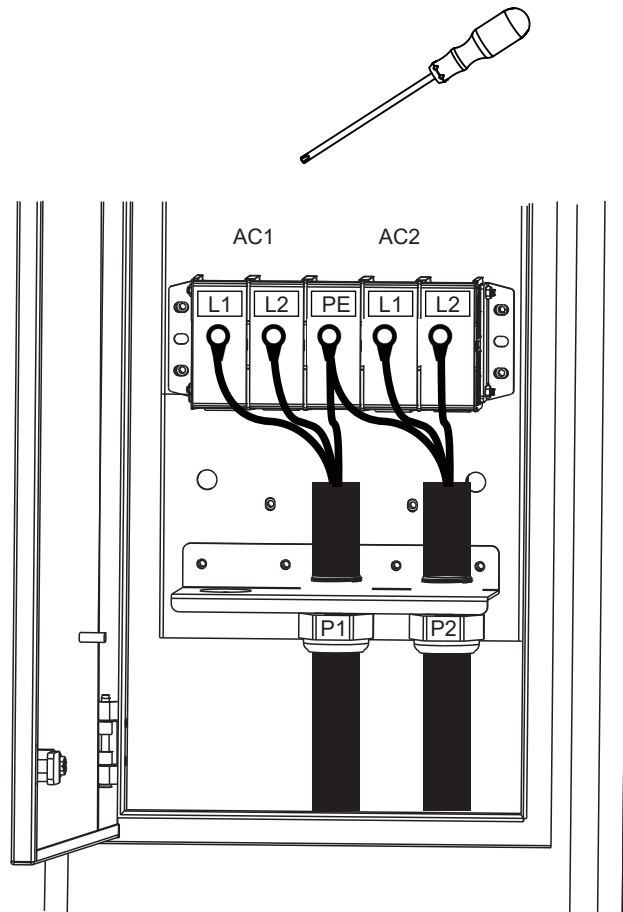
STEP 1

Please take out the ring terminals on accessory pack and put it on the heads of AC power cord of PE/L2/L1; Use OT Terminal crimping pliers to clamp the ring terminals onto AC power cord.



STEP 2

Shorting terminals need to be removed. AC1 and AC2 share the PE hole; connect AC1_L1 and AC1_L2; connect AC2_L1 and AC2_L2 according to the following wiring methods image (1.2N.m/10.53Lb.in).

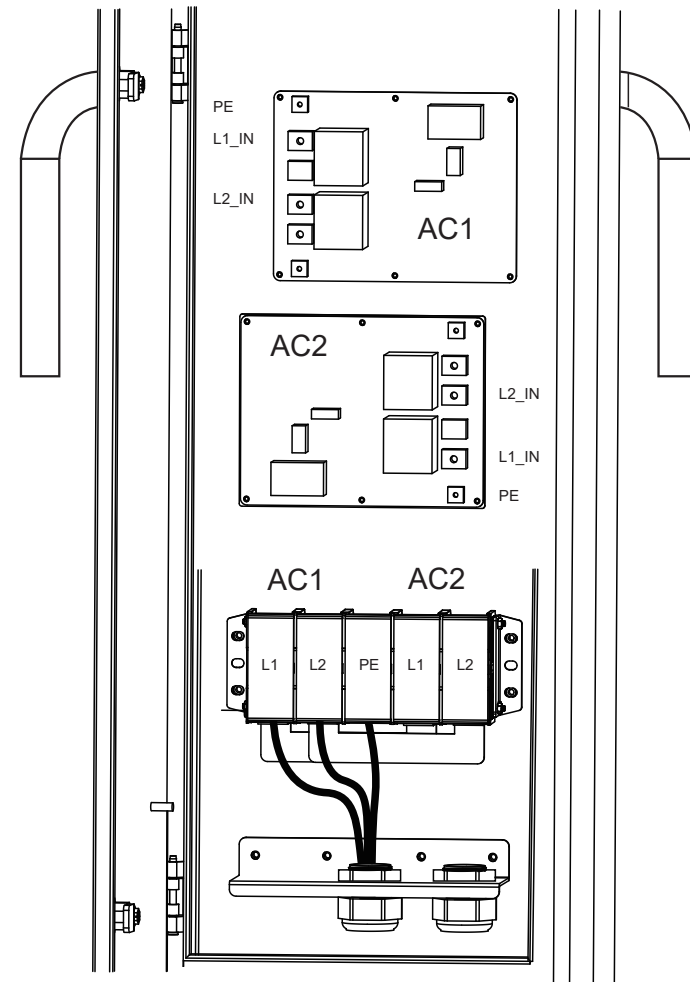


Wiring complete

(Method 1: One AC Power Cord)

AC1 is connected L1 to L1_IN, L2 to L2_IN, PE to PE.

AC2 is connected L1 to L1_IN, L2 to L2_IN, PE to PE.



6. Installation



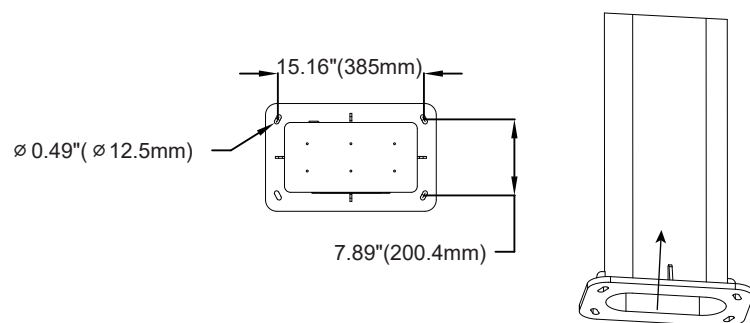
WARNING: In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight.



CAUTION: Please pay attention to the climatic conditions of the beach environment, such as high temperature, high humidity and other factors that may have a negative impact on the performance of EV charger, and consider using appropriate sun protection, moisture-proof and other equipment.

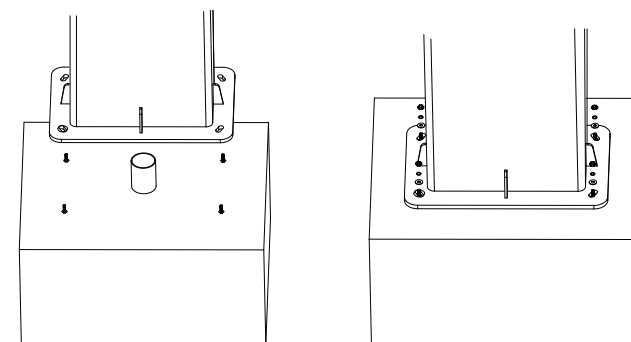
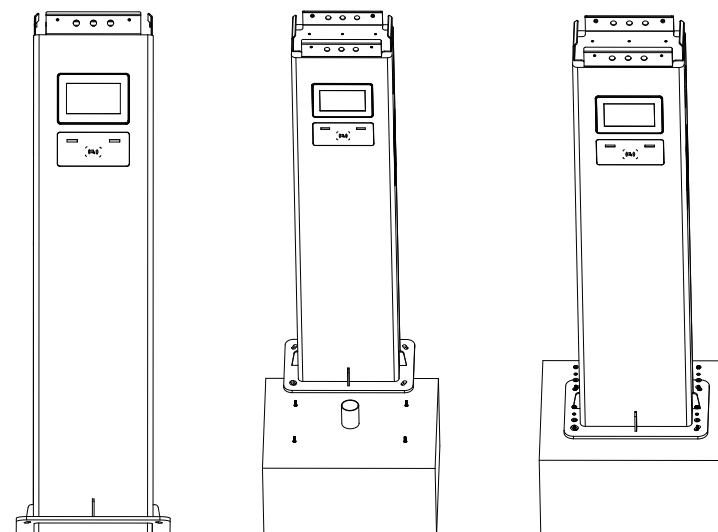
STEP 1

- Thread the connection cables from the bottom through the pedestal upwards through the cable opening
- Mark the 4 holes on the concrete foundation using the baseplate of the pedestal. Make sure that the connection cable is located precisely underneath the opening in the baseplate.
- Drill the 4 mounting holes: Diameter 10mm; Drill-hole minimum depth 84mm
- Hammer the anchors (not included) so that they are flush with the floor.



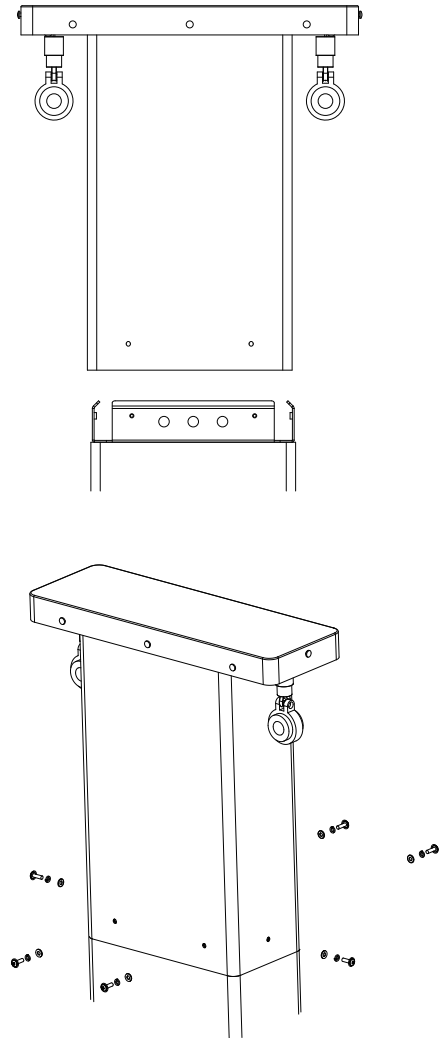
STEP 2

- Position the pedestal (lower part) directly over the cable outlet.
- Anchor the pedestal (lower part) to the foundation using 4 sets of M10*150mm expansion screws (flat washer, spring washer and bolt were included).



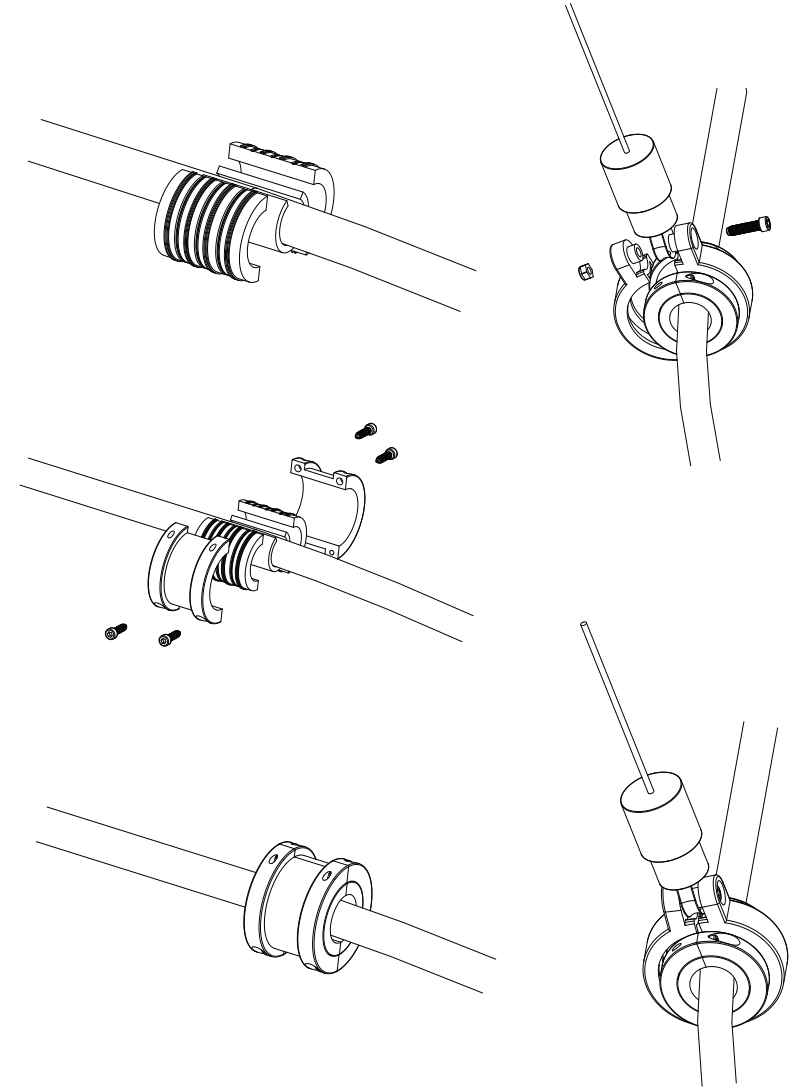
STEP 3

Fix the upper part with 6 sets of M6*20mm screws with spring washer and flat washer.



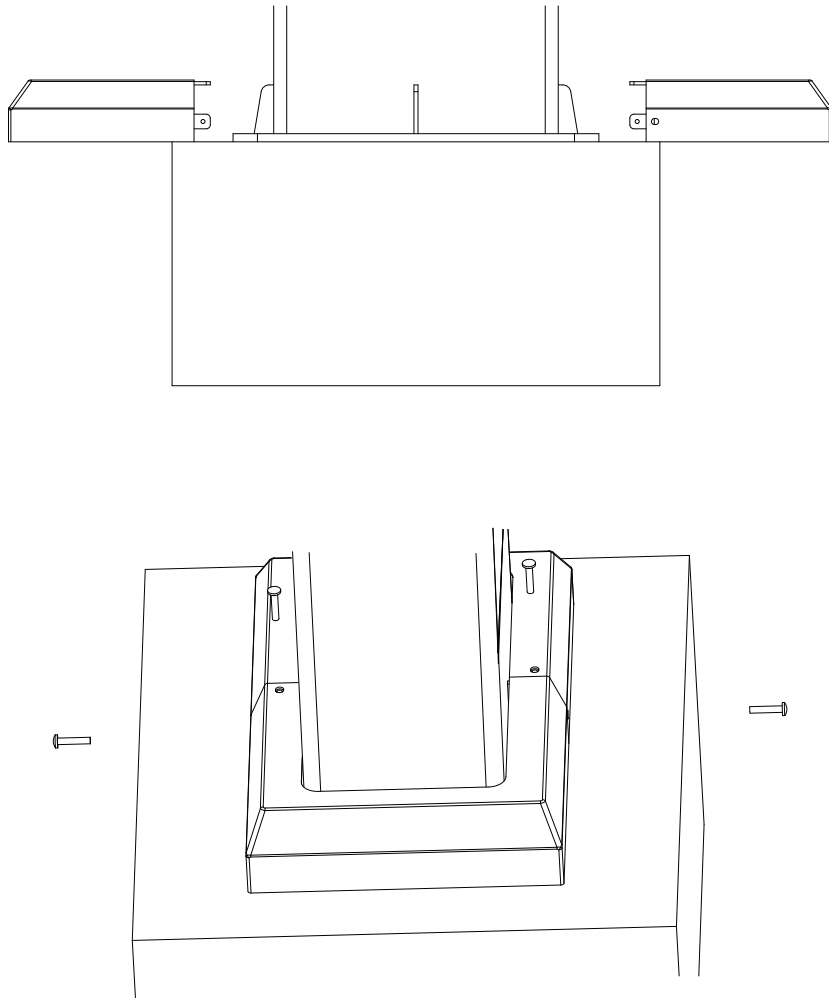
STEP 4

2.4 Cable clamp installation steps as below illustrated.

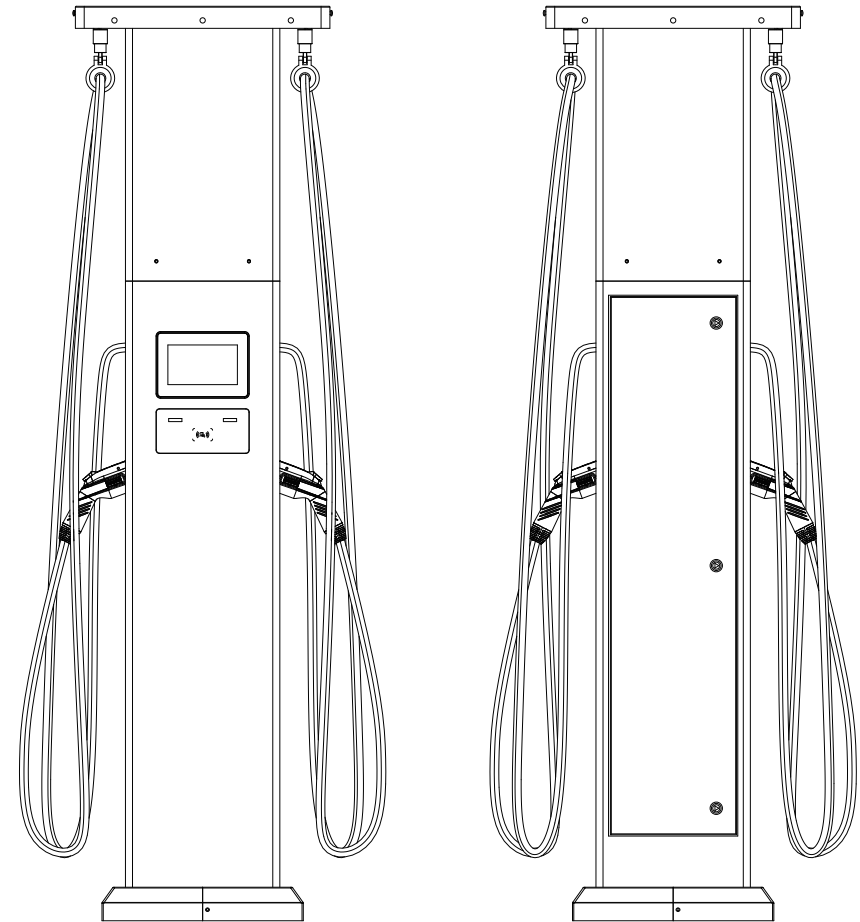


STEP 5

Fix the base cover with 4pcs M6*20mm screws.



Overall outlook picture after installation

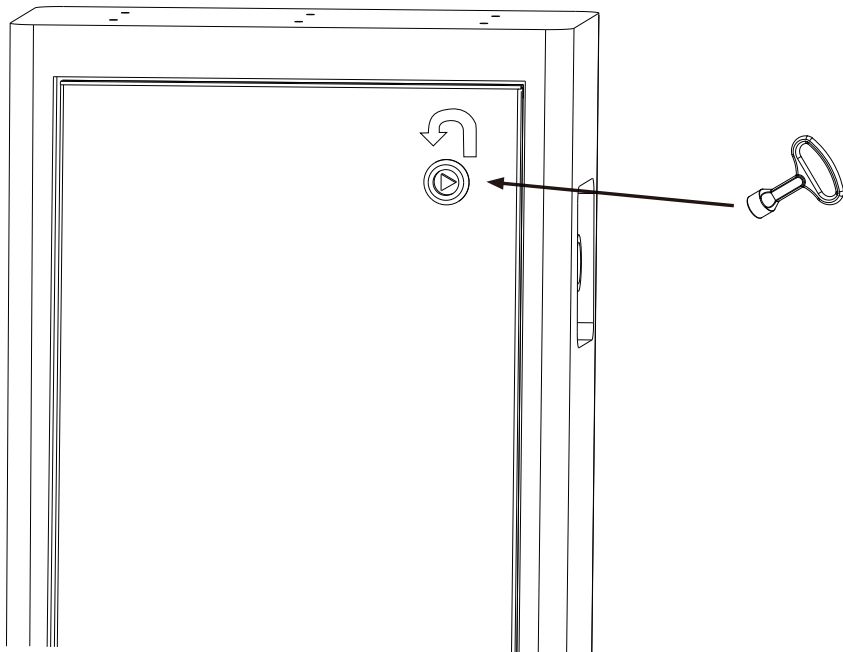


7.Installation 4G Module

Before installation, please ensure that the power switch is turned off and in a safe state.

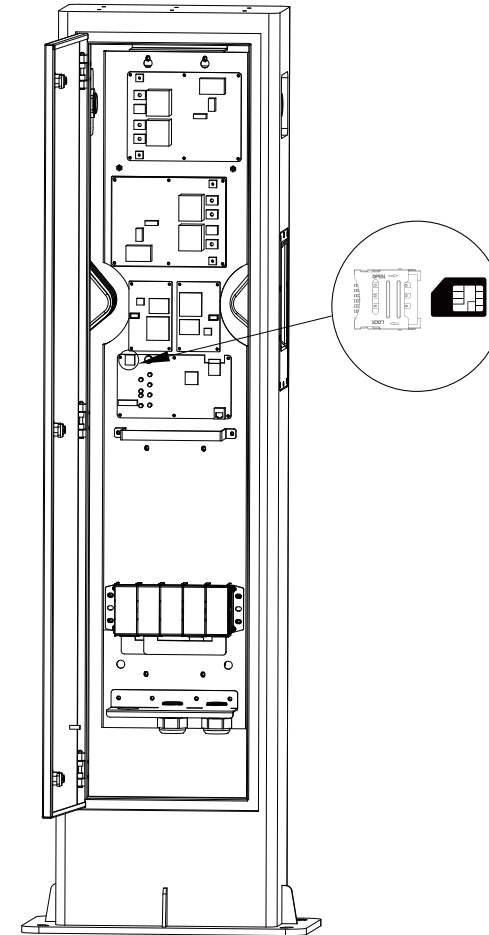
STEP 1

Use the key in the accessory to open the charger by turning it anticlockwise from the open-door latch on the back of the charger.



STEP 2

Insert the SIM card as below illustrated(for the 4G version). Then, close the enclosure.



8.Operation Device



WARNING: This device should be supervised when used around children.



CAUTION: Please use the charger properly. Do not hit or press hard on the enclosure.

If the case is damaged, please contact a professional technician.

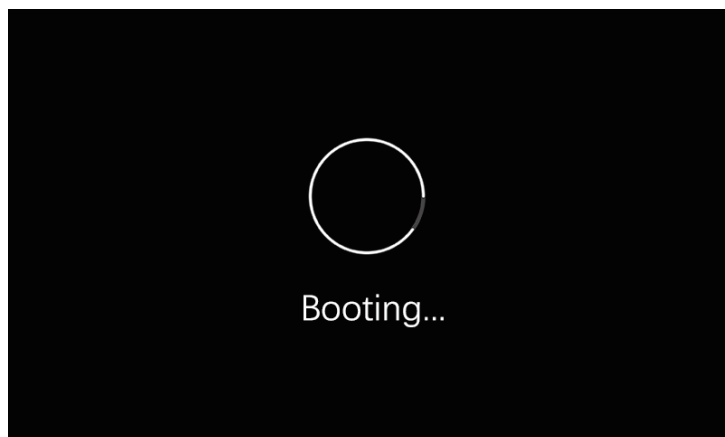


CAUTION: Do not put heavy objects on the charger to avoid danger.

8.1 UI Introduction

A 7-inch touch screen to display the operation status.

Page1 Booting



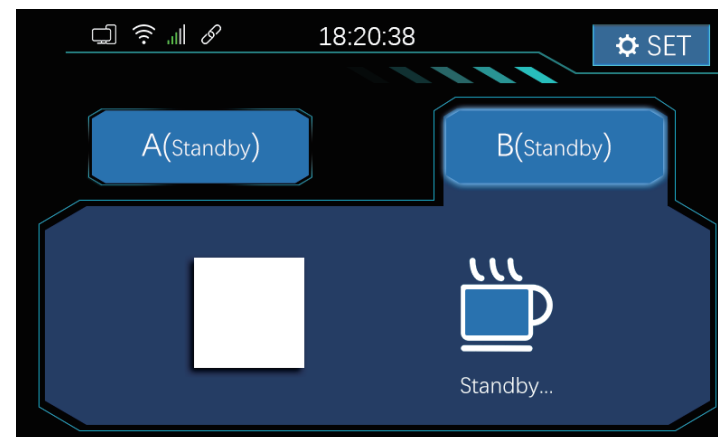
Page2 Main



Page3 EV charger A/B

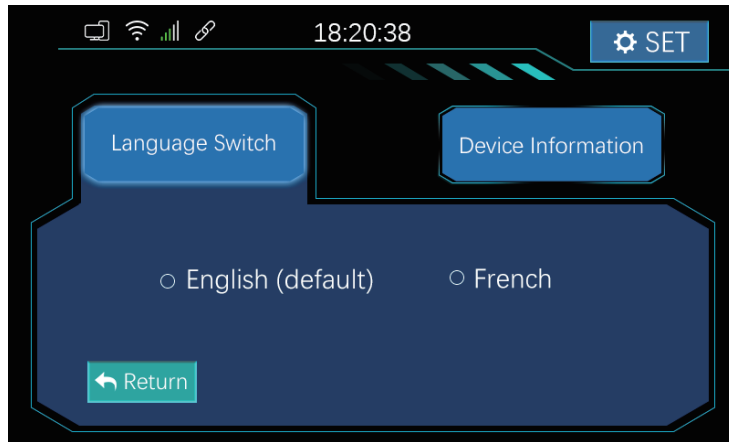
By clicking on button **A / B**, you can switch the display information for the left/right station respectively

(Standby / Charging / Fault).



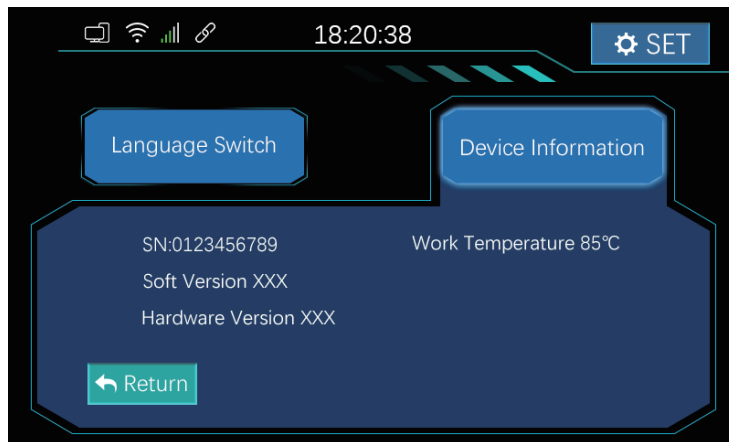
Page4 Language

Click **SET,Language Switch** button to switch between English and French. English is default.



Page5 Info

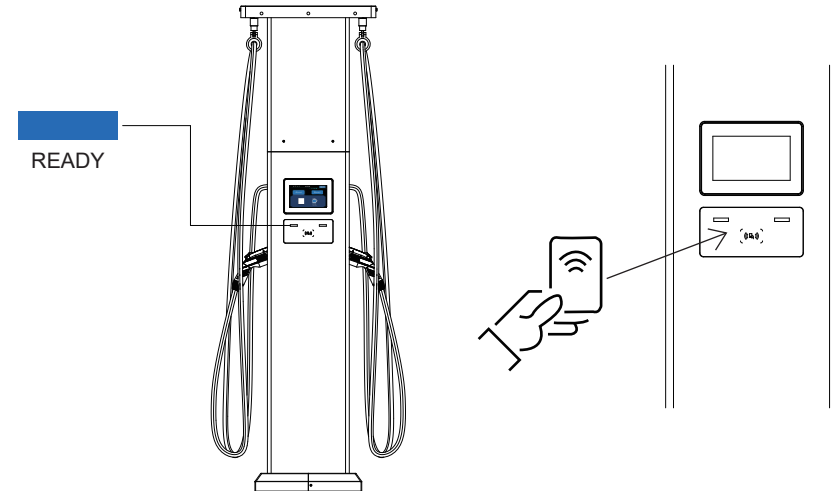
Click the button **SET, Device Information** to view device information.



8.2 Operation Device

St1.User Authorization

Model1: Use RFID Card

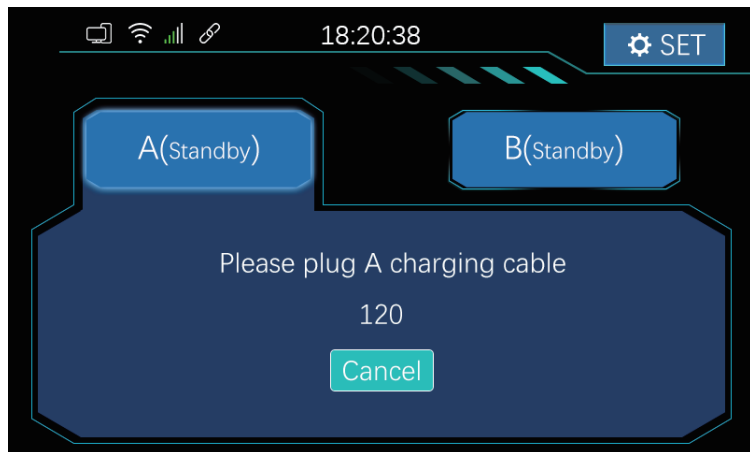


Model2: Scan QR code



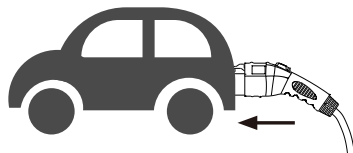
St2.Notice Plug in

After the 120-second countdown, it will automatically return to the Main Page. If you do not want to wait, can click the Cancel button to return to the Main Page.



St3. Plug the Charging Connector

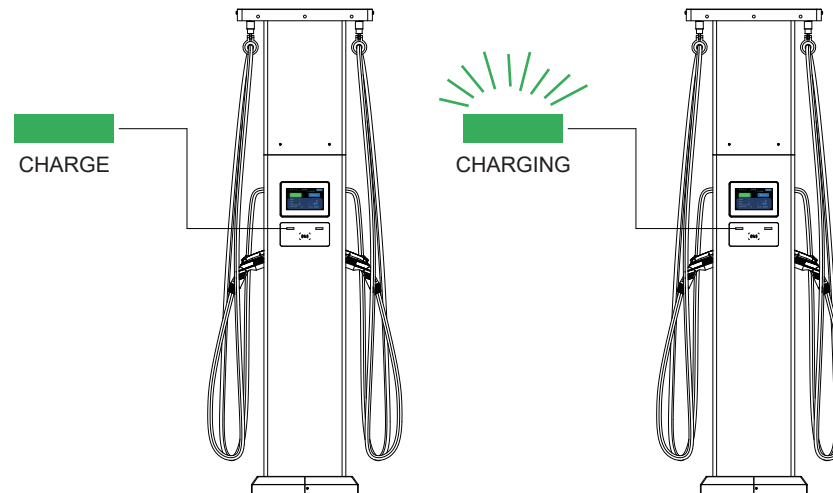
Please plug one of the charging connectors into the vehicle charging inlet.



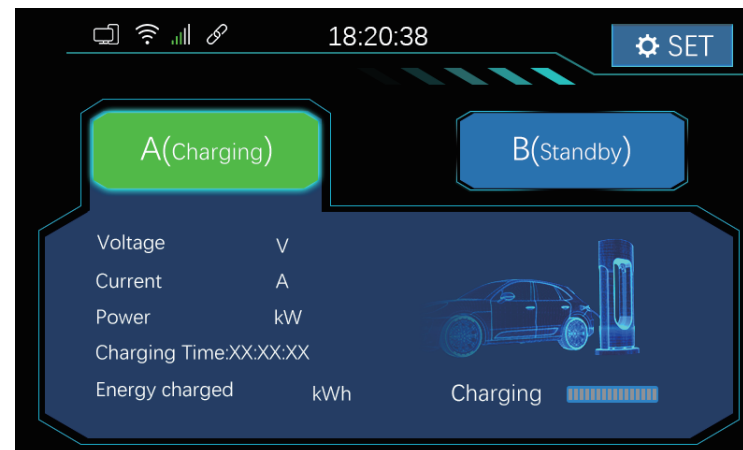
St4.Charging

After plug in the vehicle connector, the device enters the charging state:

Charging: The light flashes green (CHARGE) indicating charging is in process.

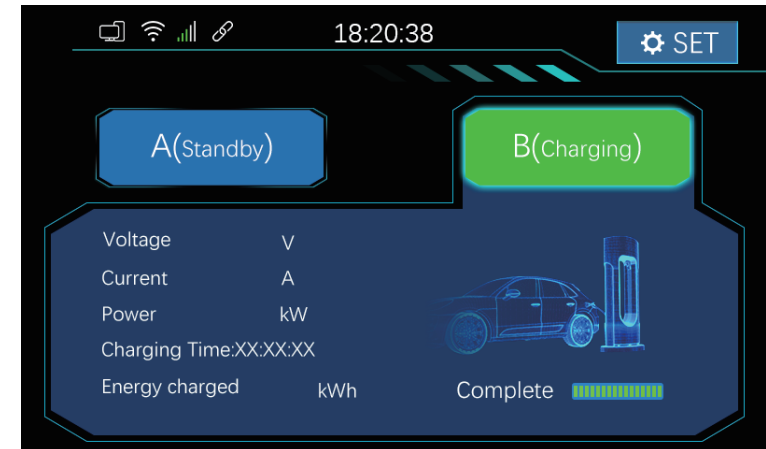
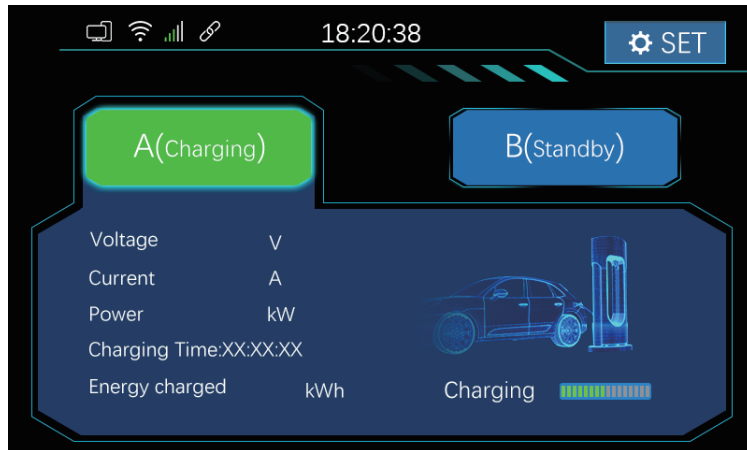


The LCD touch screen enters the following states:

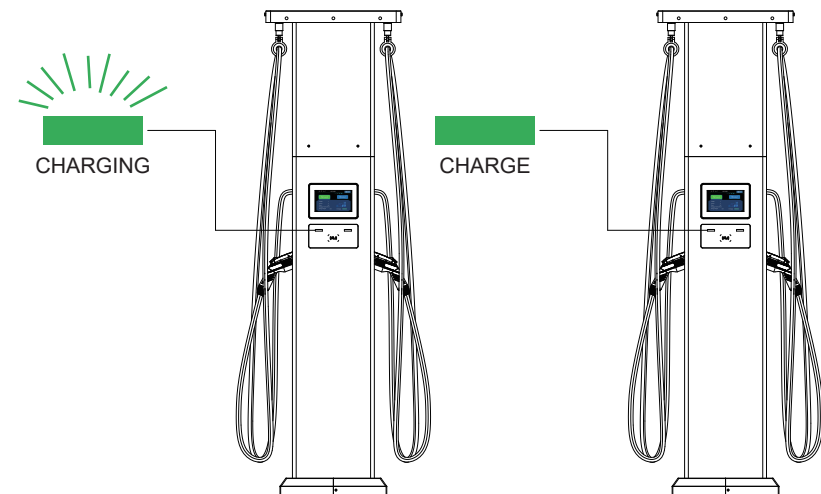
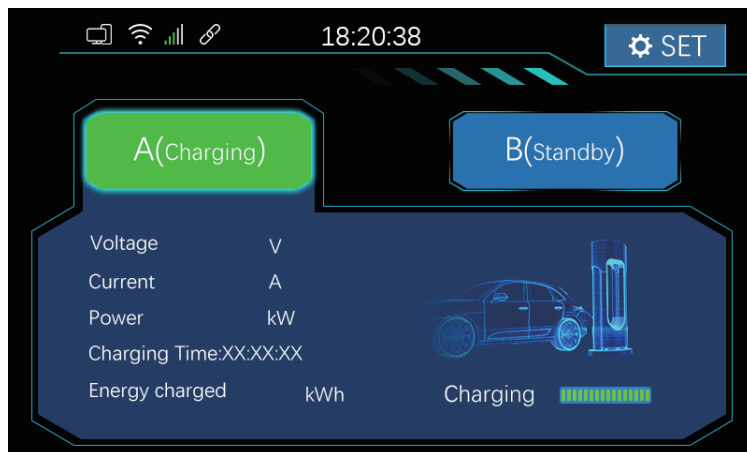


St5.Complete

The LCD touch screen enters the following states when charging is finished.

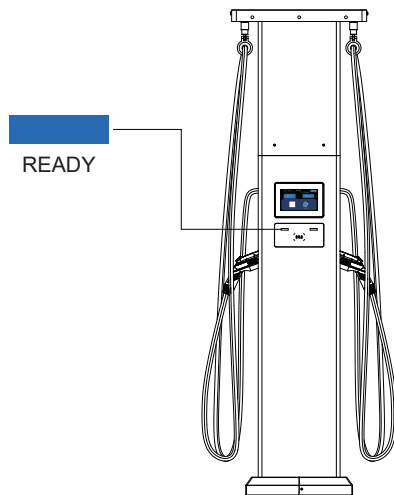
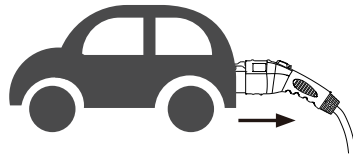


Charging is finished or swipe your RFID card, when the blinking green light (CHARGEING) transitions to being constantly on(CHARGE).



St6.Plug Out

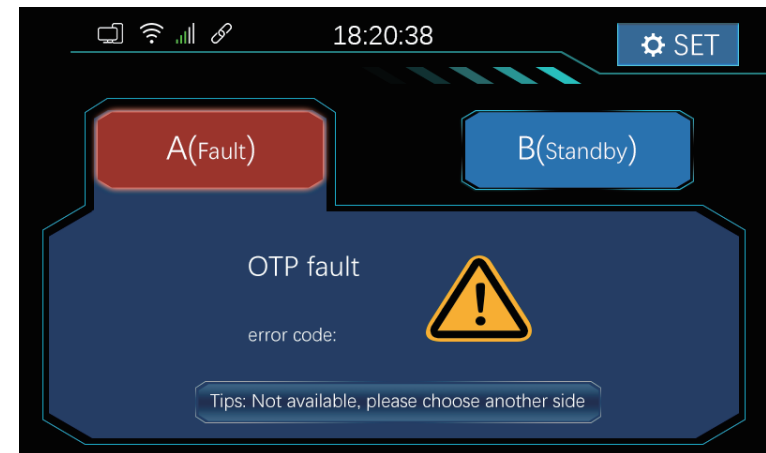
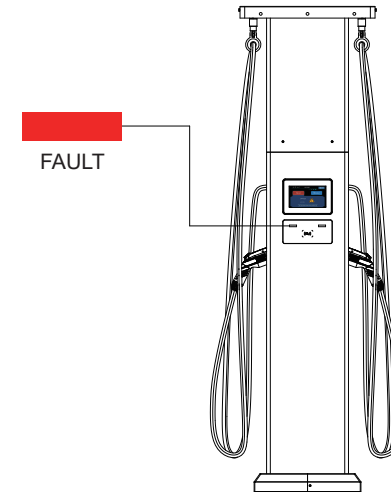
After unplugging the connector, the steady green light on the charger will change to a steady blue light.



St7.Fault

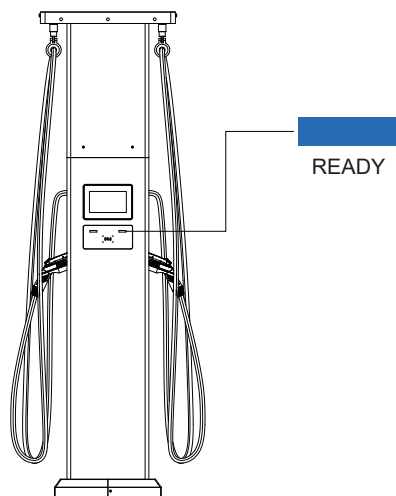
Once the charger enters a fault, the LED indicator light will be red and always on; the LCD is as shown below:

- If the red light (malfunction) is on, plug in the charger connector again.
- If the red light remains on, refer to "Error and Warning Messages".

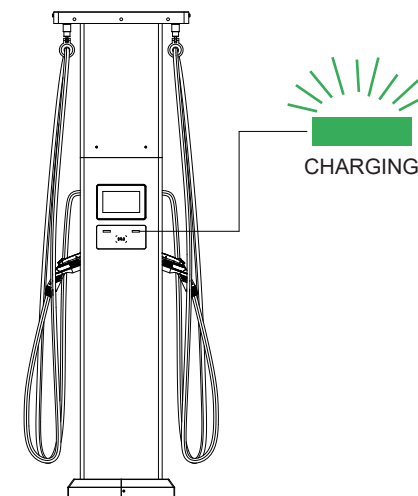


9. Light Code

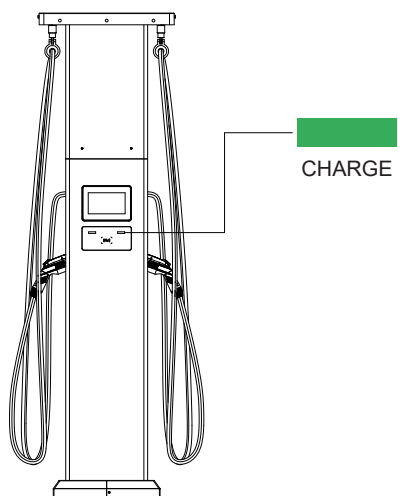
9.1 Light state



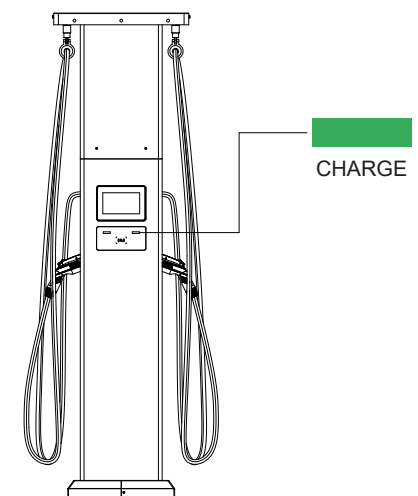
Standby, waiting to plugin



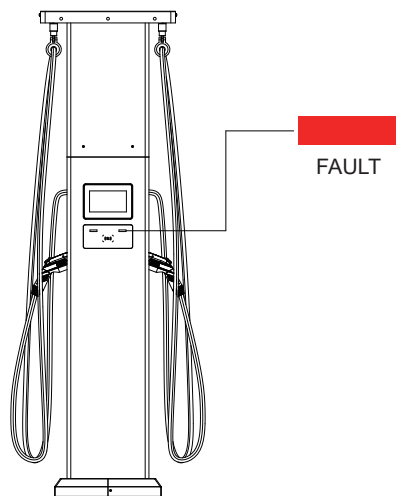
Charging in progress



Waiting to charge, communicating with vehicle.



Finished charging



9.2 Error and Warning Message

Fault Status	Red	Remark
Voltmeter fault	1 flash followed by 3 sec pauses	Auto Recover
Control pilot fault	2 flashes followed by 3 sec pauses	Auto Recover (Pull out the charging connector)
Input UVP	3 flashes followed by 3 sec pauses	Auto Recover
Input OVP	4 flashes followed by 3 sec pauses	Auto Recover
OTP	5 flashes followed by 3 sec pauses	Auto Recover
OCP	6 flashes followed by 3 sec pauses	Auto Recover (Pull out the charging connector)
Ground fault	7 flashes followed by 3 sec pauses	Auto Recover (Pull out the charging connector)
Relay fault	8 flashes followed by 3 sec pauses	Auto Recover (Pull out the charging connector)
RCD abnormal	9 flashes followed by 3 sec pauses	Auto Recover (Pull out the charging connector)
RCD self-test fault	10 flashes followed by 3 sec pauses	Reboot Recover

10. Warranty and Maintenance

- The warranty period for this charger is three years.
- During the warranty period for any malfunction under normal use according to the User Manual (to be determined by certified maintenance technicians of sellers), 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 external 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 merchant ability, particular and applicable reason- ableness and adaptability, etc.) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damage.