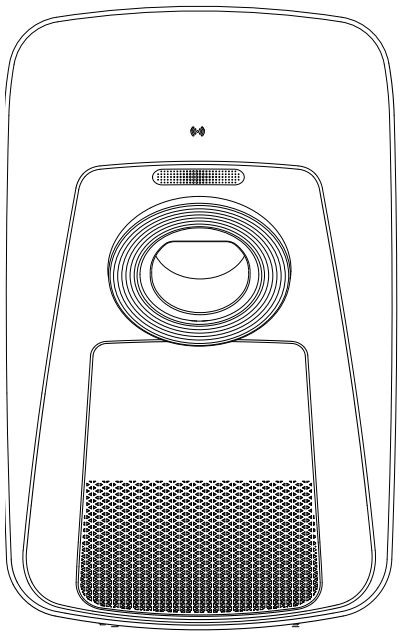
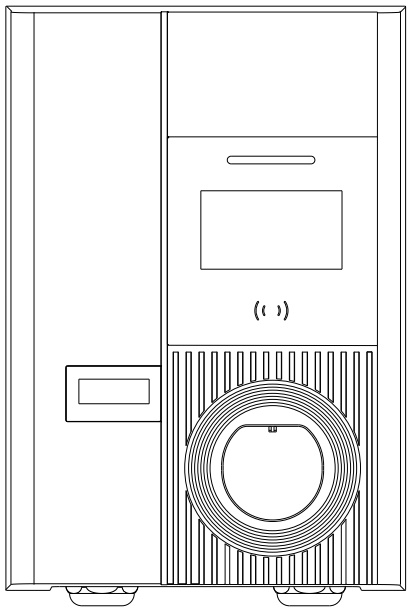
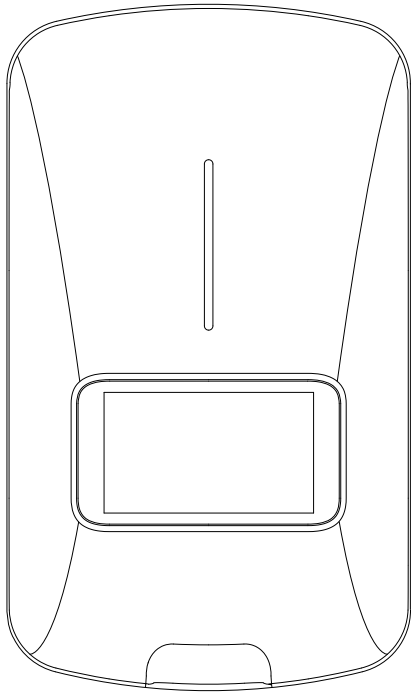




EV Charger

User Manual



The information in this manual is subject to change without notice.

Preface

Thank you for purchasing our products. Our equipment is manufactured to high standards if used in accordance with these instructions and properly maintained.

The safety messages provided here cover situations we are aware of. However, we cannot know, evaluate, or advise you on all possible hazards. It is your responsibility to ensure that any condition or service procedure encountered does not jeopardize your personal safety.

IMPORTANT

- Before operating or maintaining this equipment, please read this manual carefully and follow the instructions for installation and operation, paying special attention to safety warnings and precautions. Improper use of this product may result in product damage and personal injury and void the product warranty.
- Under no circumstances does compliance with the information in the instructions relieve the user of the responsibility to comply with all applicable codes and safety standards. This document describes the approval process. If you are unable to perform the steps described below, please contact us. We are not responsible for any damages resulting from custom installations or procedures not described in this document or from failure to comply with the recommendations.

WARNING

- This equipment should be installed by a licensed electrician only in accordance with all local codes and ordinances.
- This equipment must be grounded through the permanent wiring system or equipment grounding conductor, otherwise it may result in the risk of electric shock or fire.
- Children should be supervised when using this equipment.
- Do not insert fingers or foreign objects into the EV connector.
- Do not install or use this equipment near flammable materials, explosive, irritating or combustible substances, chemicals or vapors.
- Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, 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.
- Use only 90° copper wire conductors.
- Do not operate this equipment outside operating temperature range of -30℃~50℃(-22℉~122℉).
- Please install this equipment correctly. Improper installation and testing of the equipment may result in property damage, personal injury.
- Handle the equipment carefully during transportation. Do not use force, shock or pull, twist, wrap, drag or step on the equipment to avoid damage to the equipment or equipment parts.
- THE SUITABILITY OF THE USE OF FLEXIBLE CORD IN ACCORDANCE WITH CE CODE, PART I.

For use with electric vehicles.

Ventilation Not Required.

CAUTION

- That adaptors or conversion adapters are not allowed to be used. And that cord extension sets are not allowed to be used.

Installation requirements

Warning: Disconnect power before installing the charging station.

Warning: Always preview the user manual and be sure to review local building and electrical codes before installing the AC charger.

Warning: The AC charger should be installed by a qualified technician in accordance with the user manual and local safety regulations.

Note: Use appropriate protection when connecting main power distribution cables.

Note: The circuit breaker, selected in accordance with IEC 60947-2, and with a rated current as specified in the table, should be installed in the upstream AC distribution box.

Note: The device should be installed at a height of 600mm to 1200mm above the ground.

Note: Please place the charger in a dry and clean area. Not recommended for installation in humid or dusty coastal environments.

Note: A certified PEN device shall be installed at the front end of the equipment, or local grounding shall be implemented.

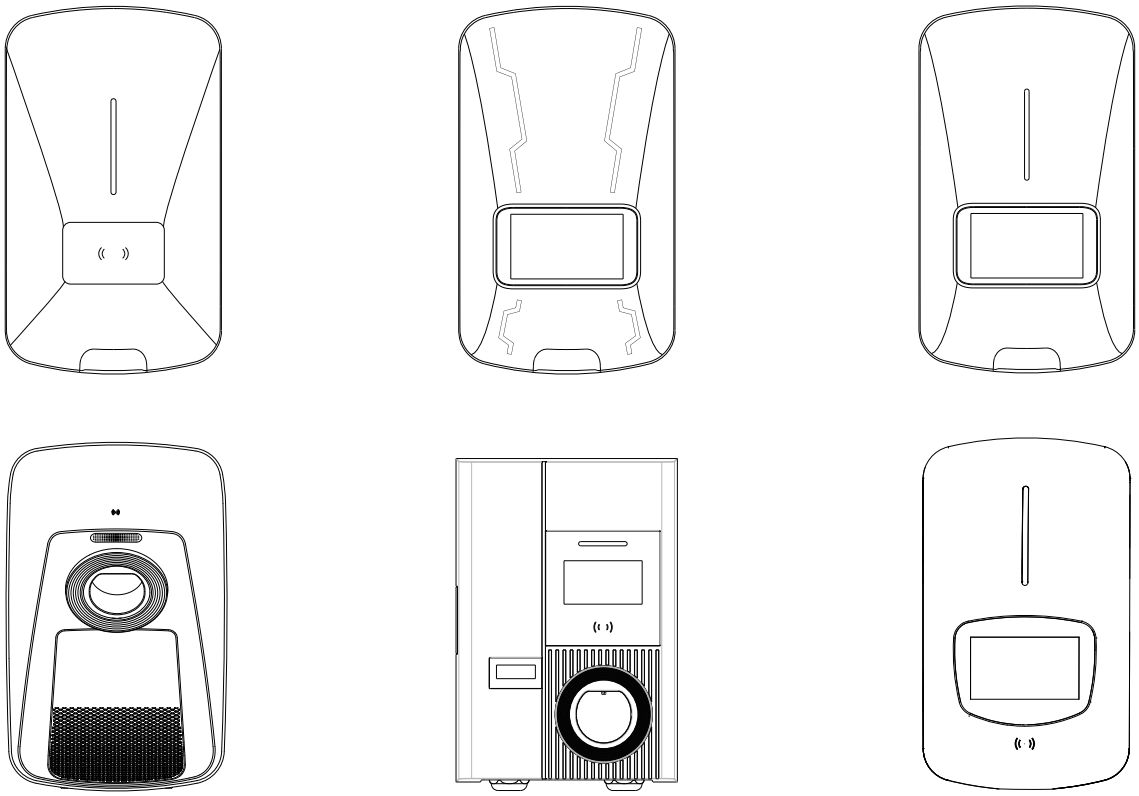
Routine maintenance

Note: Keep the charger away from moisture or water. If there is water or moisture in the charger, please cut off the power immediately to avoid immediate danger and notify a professional to perform maintenance before next use. Note: Please use the charger correctly. Do not slam or press hard on the enclosure. If damaged, please contact professional technicians.

Note: Avoid placing the charger near heat sources and high temperatures and away from flammable gases and corrosive substances.

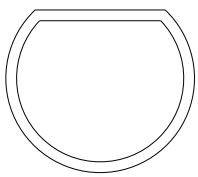
Note: Do not place heavy objects on the charger to avoid danger.

Packing List



• Electric Vehicle Supply Equipment *1

• User Manual



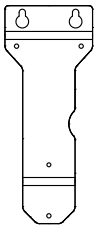
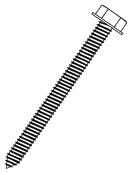
• Connector Holder *2

• RFID Card

CAUTION

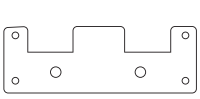
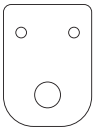
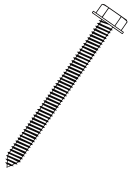
- Holster and installation accessories only apply to the product model provided with this product.
- The list above does not necessarily include all tools required for installation. We recommend that you read through the installation process and gather the tools you need before installing.

• Installation Kit-A *3

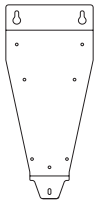
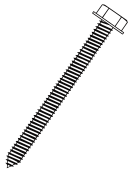
· Wall Mount Bracket-A · Self-tapping screw · Expansion bolt · Machine screw

• Installation Kit-B *3

· Wall Mount Bracket-B · Self-tapping screw · Expansion bolt · Machine screw

• Installation Kit-C *3

· Wall Mount Bracket-C · Self-tapping screw · Expansion bolt · Machine screw

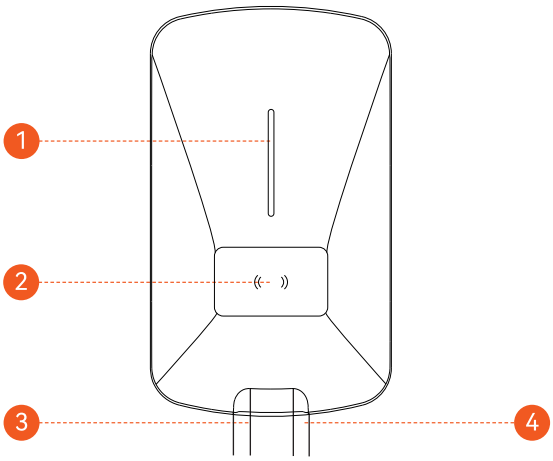
*1=The appearance of the product, Connector Holder and Installation Kit changes with the model. One model should has one Installation Kit.
*2=The appearance of the Connector Holder changes with the model. ACC-HEXX, ACS-HEXX, ACH-DEXX, ACM-DEXX has no Connector Holder. XX=07, or 11, or 22.
*3= One model should has one Installation Kit.

Other tools you may need:

1. Drill 2. Pen 3. Hammer 4. Screwdriver

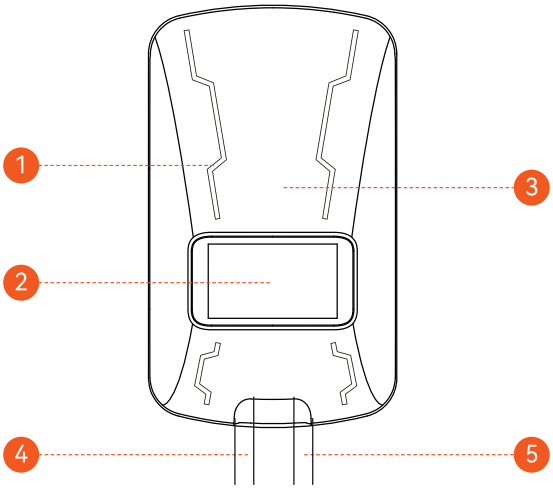
Product Overview

- **ACH-CEXX**



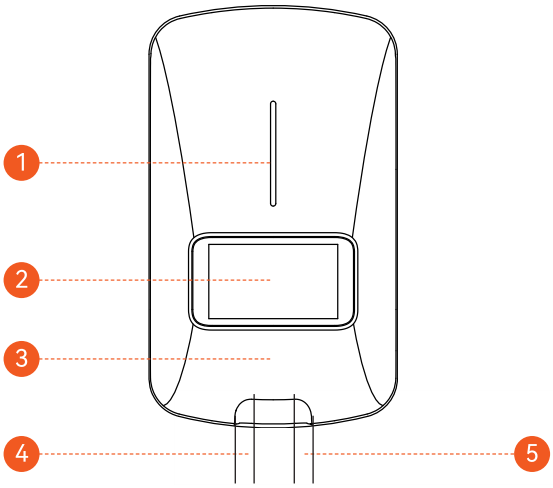
1 Indicator Light
2 RFID Reader
3 Current Inlet Cable
4 Charging Cable

- **ACH-EEXX**



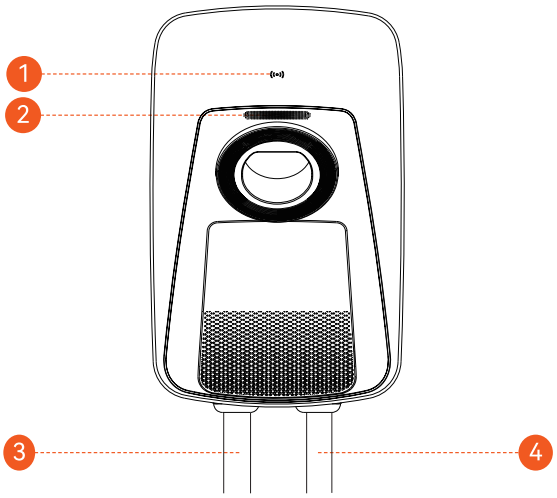
1 Indicator Light
2 Display Screen
3 RFID Reader
4 Current Inlet Cable
5 Charging Cable

- **ACH-SEXX / ACH-FEXX**



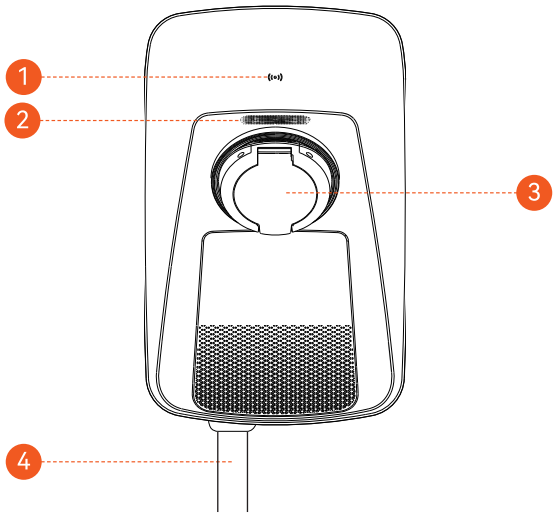
1 Indicator Light
2 Display Screen
3 RFID Reader
4 Current Inlet Cable
5 Charging Cable

• ACH-DEXX



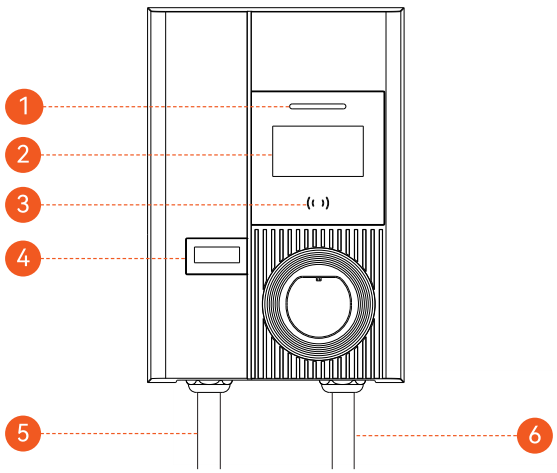
1 RFID Reader
2 Indicator Light
3 Current Inlet Cable
4 Charging Cable

• ACM-DEXX



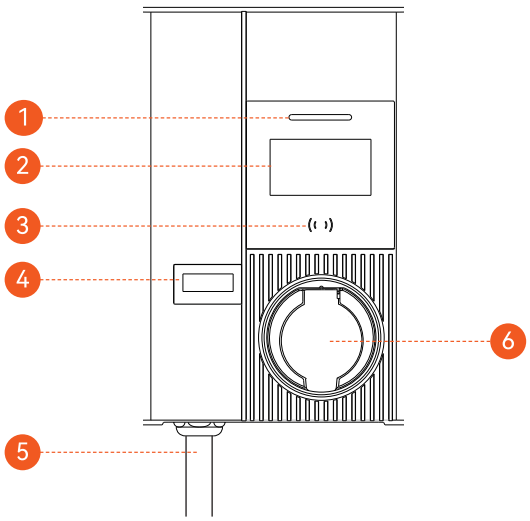
1 RFID Reader
2 Indicator Light
3 Socket
4 Current Inlet Cable

• ACC-HEXX



1 Indicator Light
2 Display Screen
3 RFID Reader
4 Meter
5 Current Inlet Cable
6 Charging Cable

- **ACS-HEXX**



1 Indicator Light
2 Display Screen
3 RFID Reader
4 Meter
5 Current Inlet Cable
6 Socket

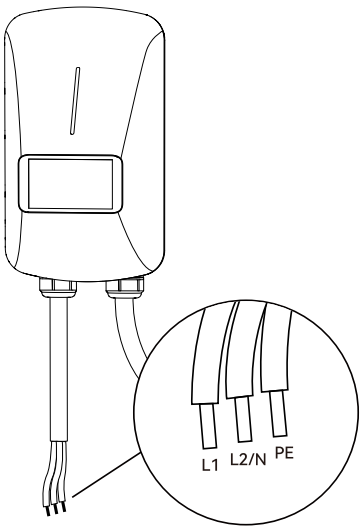
Lighting Indicators (for ACH-CEXX/ACH-EEXX/ACH-SEXX/ACH-FEXX)

Worling status		Indicator status
Standby Mode	Not connected to a mobile device	Flashing blue
	Connected to a mobile device	Colorful lights
Charging Mode	An EV is connected	Colorful lights
	Charging in progress	Green water lighting effect
	Charging complete	Green light bright
Charging Interruption	Error occurs	Red, details can be seen in Page 16

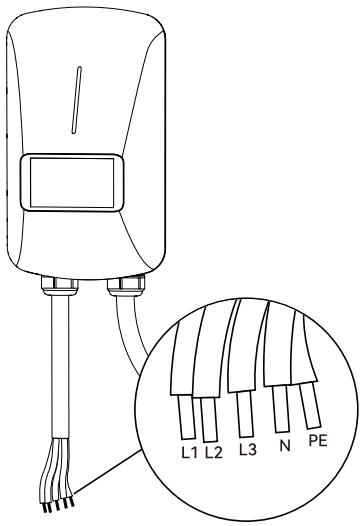
Lighting Indicators (for ACH-DEXX/ACM-DEXX/ACC-HEXX/ACS-HEXX)

Worling status		Indicator status
Standby Mode	Not connected to a mobile device	Solid orange
	Connected to a mobile device	Solid blue
Charging Mode	An EV is connected	Solid blue
	Charging in progress	Breathing blue
	Charging complete	Solid green
Charging Interruption	Error occurs	Red, details can be seen in Page 16

Overall Drawing



Single phase (elec.)



Three-phase (elec.)

Select Circuit Breaker

	7KW, Single phase	11KW, Three phase	22KW, Three phase
Output current	32A	16A	32A
Required current of circuit breaker	40A	20A	40A

To ensure safety and performance, this product must be used with a circuit breaker that meets the IEC 60947-2 standard. Please select a suitable circuit breaker according to local regulations and install it correctly according to the instructions in the manual.

Installation Guide (Reference)

IMPORTANT

Please follow all applicable codes and regulations and obtain permits to complete electrical work as required.

Location Planning:

1. Mount the unit on a vertical surface that will support its weight (e.g., a finished wall). The maximum weight of this product is approx 10.5kg .

2. Keep this equipment installed in allowing wire bending tolerance within the scope of the position.

3. Place the charger in a position that is not easily damaged.

Ground Requirements

- The charger must be connected to the earthing metal permanent wiring system. Equipment grounding conductor must be run with circuit conductor, and connect to the equipment grounding terminal or lead on the charger.
- The grounding conductor shall be grounded to earth at the service equipment or, when supplied by a separately derived system, at the supply transformer.
- Ensure that a grounding conductor that complies with all applicable codes is properly grounded to earth at the service equipment, when supplied by a separate system, at the supply transformer.
- Neutral is not used to power the charger but must be properly connected to ground, at the panel transformer, to provide necessary voltage reference relative to ground.

Installation steps

DANGER: RISK OF SHOCK.

Disconnect the 230V or 400V power vac. Do not turn on the power until you are sure the installation is complete. Failure to following this instruction may result in electric shock or electrocution.

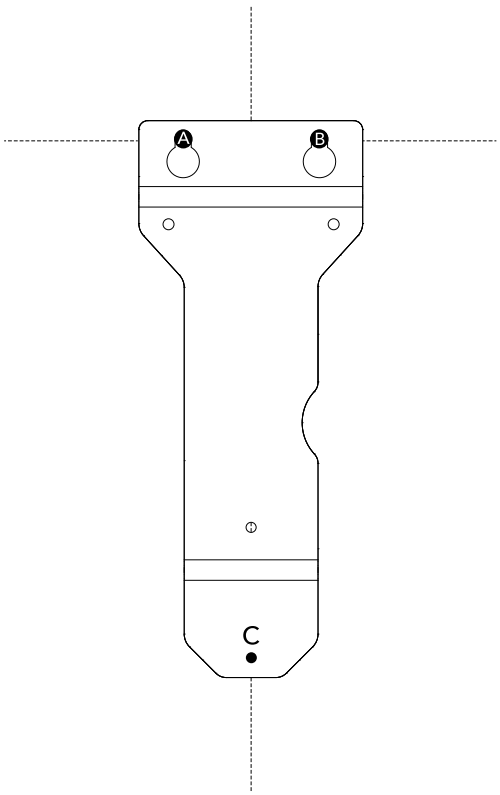
WARNING

To avoid the risk of fire or electric shock, do not use this product with an extension cord.

Installation Tutorial of Installation Kit-A

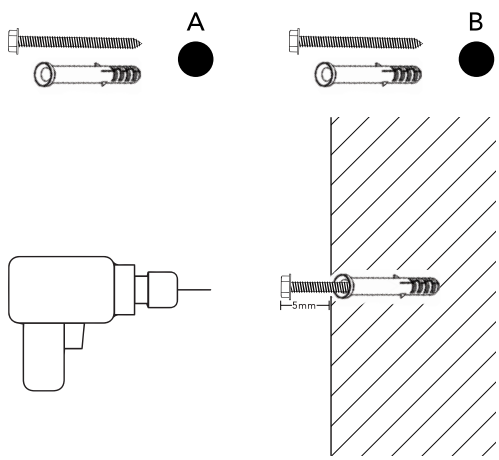
1. Find the ideal installation location for the device.

Note: The installation position should ensure that the cable is properly bent and cannot be over stretched.

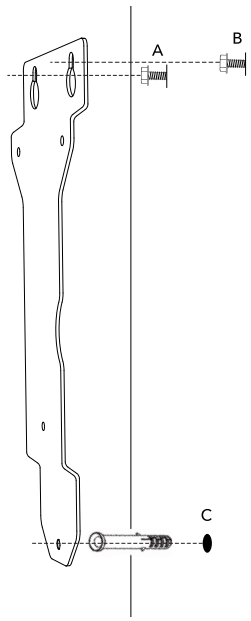


2. To use the wall mount bracket, first confirm the top two holes on the wall, corresponding to points A and B. Then drill holes in points A and B, and place M10 expansion bolts and **M6*50mm** screws.

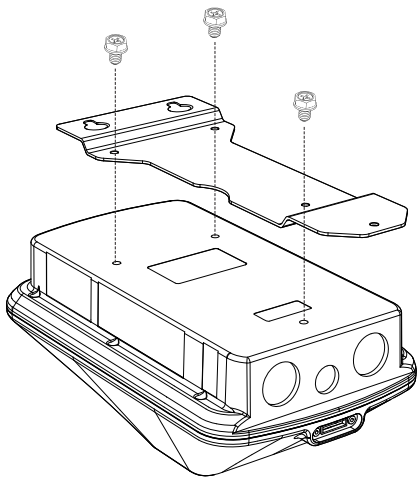
Note: About 5mm length of M6 screws should be reserved for placing the device.



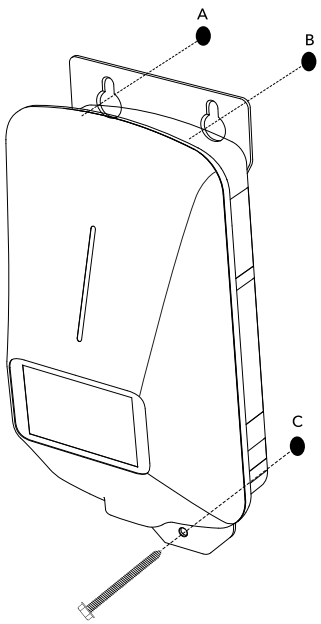
3. Place the bracket on the screws at points A and B to confirm and mark the position of point C.Then drill a hole at point C and put in the expansion bolt.



4. Use **M4*6mm** screws to fix the bracket on the back of the Electric Vehicle Supply Equipment.

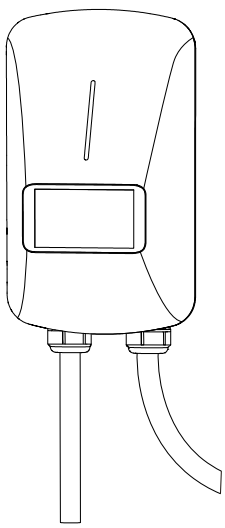


5. When the EVSE and bracket are combined, place them on screws A and B. And use **M4*40mm** screw through point C to fix the device on the wall.



6. Install the EV connector bracket in place using M6 expansion bolts and **M4*40mm** screws.

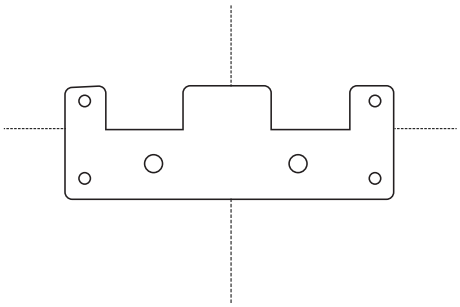
Note: The connector Holder should be located within the flexible range of the cable.



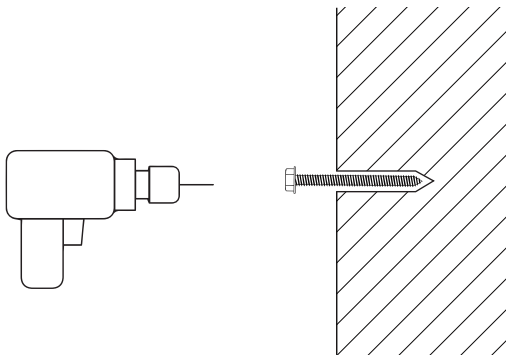
For installation of package B

1. Find the ideal installa location for the device.

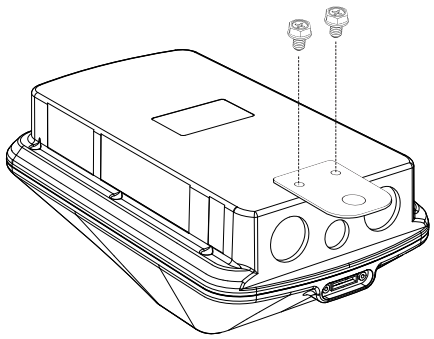
Note: The installation position should ensure that the cable is properly bent and cannot be overstretched.



2. Mark and punch the holes on the wall corresponding to the holes of the wall bracket.Then install the expansion bolts and screws.

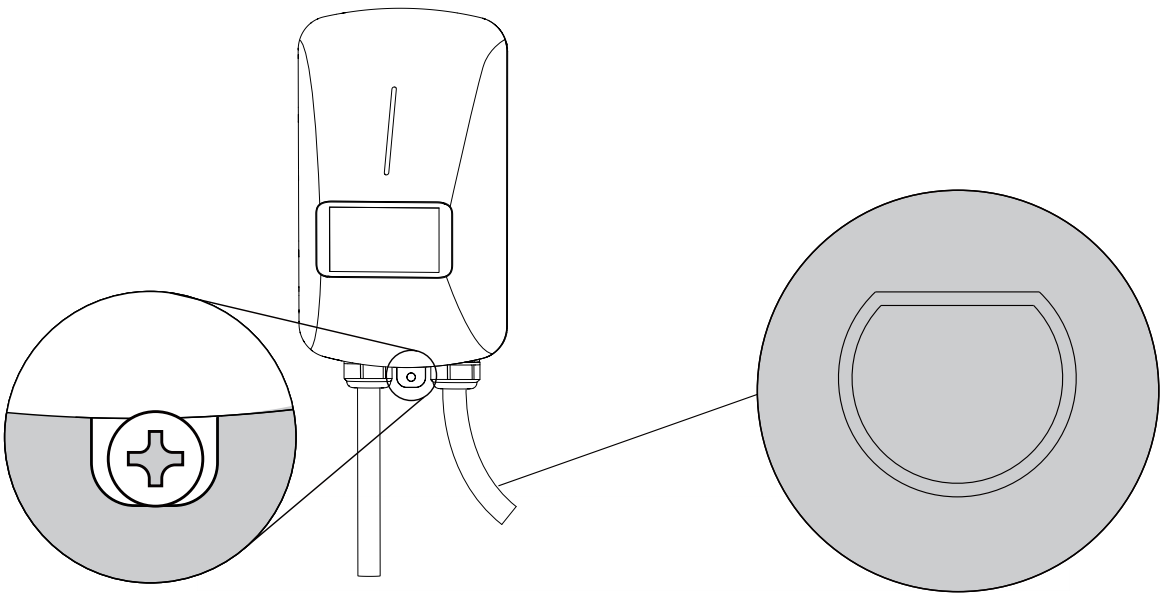


3. Lock the anti-theft tabs to the back of the machine with machine wire screws.



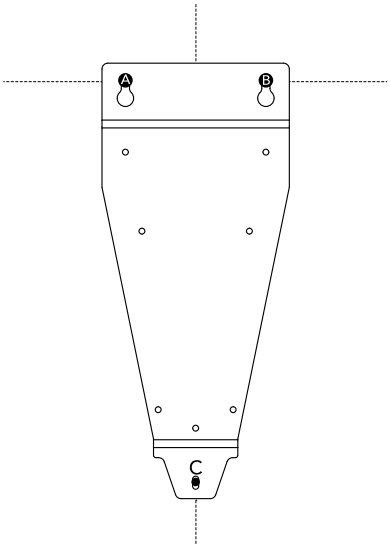
4. Hang the device on the mounted wall bracket and lock the anti-theft screws at the bottom.
Installation of EV connectors.

Note: Make sure that the mounting position should be within the bendable range of the cable.

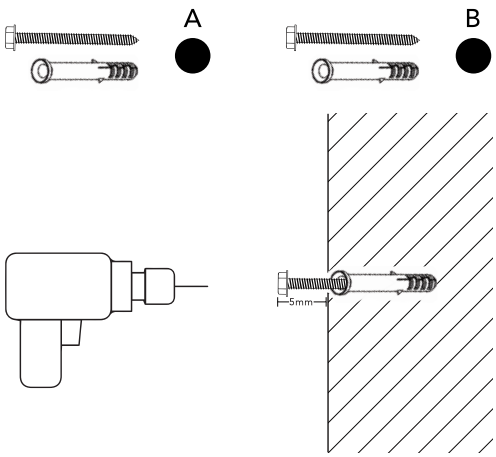


For installation of Kit-C

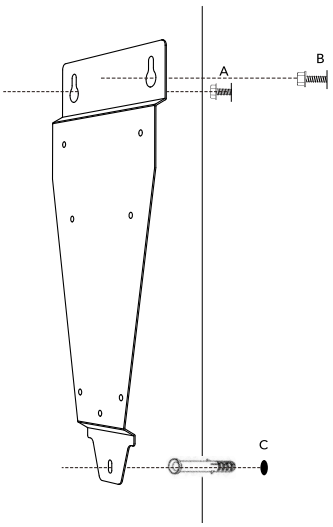
1. Find the ideal installation location for the device.
   Note: The installation position should ensure that the cable is properly bent and cannot be over-stretched.



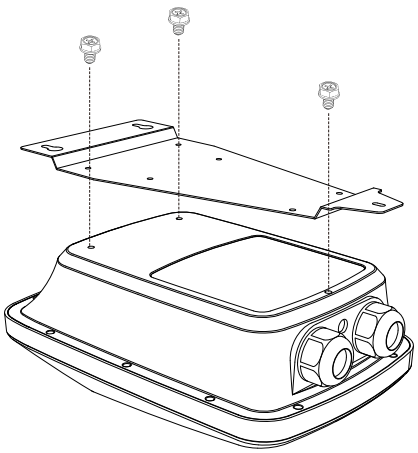
2. To use the wall mount bracket, first confirm the top two holes on the wall, corresponding to points A and B. Then drill holes in points A and B, and place M10 expansion bolts and **M6*50mm** screws.
   Note: About 5mm length of M6 screws should be reserved for placing the device.



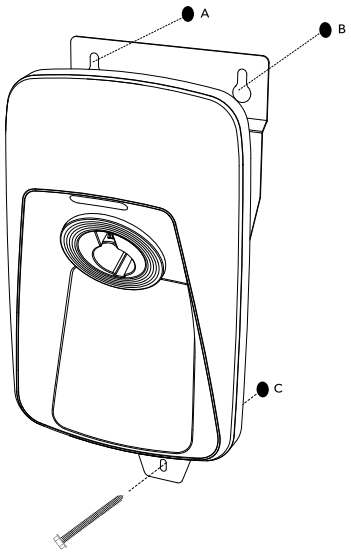
3. Place the bracket on the screws at points A and B to confirm and mark the position of point C. Then drill a hole at point C and put in the expansion bolt.



4. Use **M4*6mm** screws to fix the bracket on the back of the Electric Vehicle Supply Equipment.



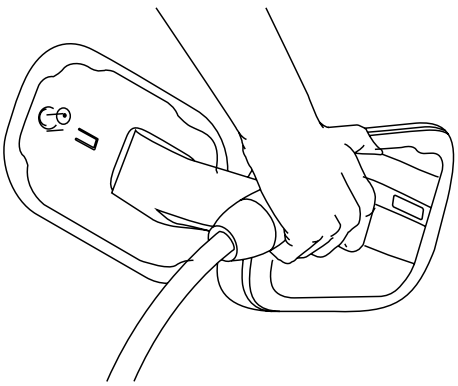
5. When the EVSE and bracket are combined, place them on screws A and B. And use **M4*40mm** screw through point C to fix the device on the wall.



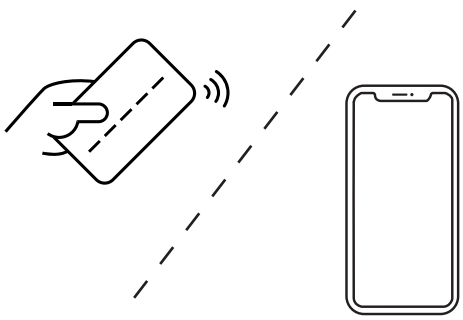
Instructions for use

Note: Ensure that the equipment is properly connected to the power supply.

1. Insert the connector into the vehicle power port.



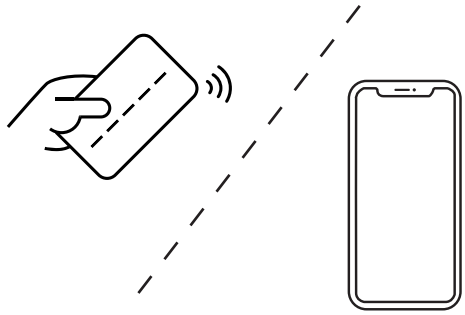
2. Start charging by swipe RFID card or use the App.



CAUTION

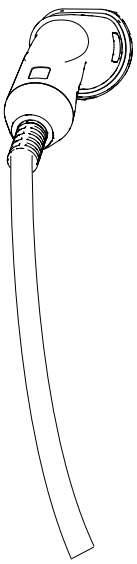
Do not disconnect the connector during charging. Otherwise, there is a risk of damage to the connector or Electric Vehicle Supply Equipment.

3. End of charging by swipe RFID card or use the App.

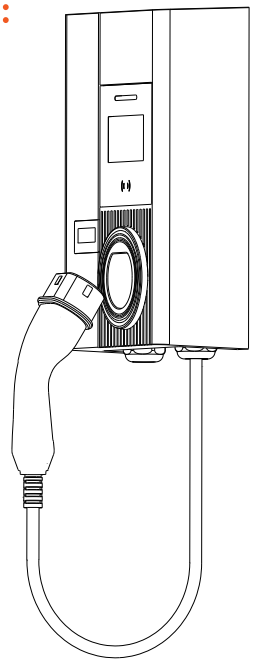


4. Unplug the connector and put it back in place.

A:



B:



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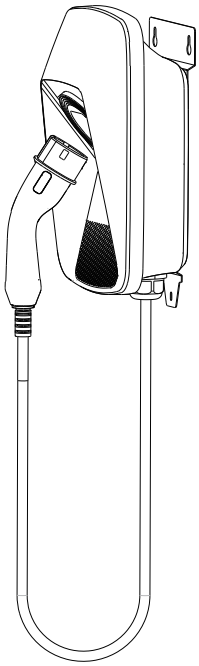

Fault description

Fault code	Failure Cause	Exclusion suggestion
E1	Metering communication error	Check that the network connection is correct and reliable
E2	Under-voltage alarm	Consult your local electric service to confirm that the voltage in this area is stable. If it is below 184V or 320V this error will appear
E3	Over-voltage alarm	If the voltage exceeds 276V or 480V for a short time, wait for the grid to return to the normal voltage range by itself
		Consult your local electric service to confirm that the voltage in this area is stable. If it is higher than 276V or 480V this error will appear
E4	Ground fault	Immediately disconnect the power distribution box
		Check whether the equipment input/output line grounding is normal, and whether the input L/N is connected in the normal order
		Exclude the above problems, re-energize
E5	Over current protection	Immediately disconnect the power distribution box
		Check whether there is low impedance or short circuit between the two lines of the output line of the device
		Exclude the above problems, re-energize
E6	Permanent over-current protection	Please seek professional repair or contact the after-sales service team for this fault
E7	Leakage protection	Immediately disconnect the power distribution box
		Check if the device output line is broken or has low impedance or short circuit to ground
		Exclude the above problems, re-energize
E8	Over temperature protection	Check the environment in which the equipment is installed, verify that there is no other heat generating equipment next to it, and ensure that the ambient temperature is below 45° C (113° F)
E9	RFID failure	Please seek professional repair or contact the after-sales service team for this fault
E10	Relay failure	Please seek professional repair or contact the after-sales service team for this fault
E11	Memory failure	Please seek professional repair or contact the after-sales service team for this fault
E12	Clock exception	Please seek professional repair or contact the after-sales service team for this fault

After-sales information

IMPORTANT

You are responsible for the proper installation and maintenance of the Electric Vehicle Supply Equipment.

Out of scope warranty

1. Improper site preparation or maintenance, improper installation, cosmetic damage such as scratches and dents, or normal deterioration.

2. Abuse, vandalism, damage or other problems caused by accident, misuse or negligence (including, but not limited to, physical damage caused by vehicle impact), or use of the Electric Vehicle Supply Equipment in a manner other than that specified in the applicable this product documentation.

3. Damage to the Electric Vehicle Supply Equipment caused by software, interfaces, components, supplies or any other products not supplied by this product.

4. Damage caused by failure to install, alter, disassemble, modify or relocate Electric Vehicle Supply Equipment in accordance with the installation guidelines.

5. Damage caused by extreme electrical surges, extreme electromagnetic fields, or other causes beyond control.

In addition: The Electric Vehicle Supply Equipment warranty will not apply ifs the original identification markings of your Electric Vehicle Supply Equipment (e.g., serial number and logo) are damaged, altered or removed.

Our company shall not be liable for any direct, indirect, incidental, special, punitive or consequential damages, including, arising out of or in connection with your purchase or use of a Electric Vehicle Supply Equipment or inability to use Electric Vehicle Supply Equipment, under any theory of liability, whether in an action in contract, strict liability, tort (including negligence including negligence) or other legal or equitable theory, even if our company knew or should have known of the possibility of such damages. in no event will our campany's cumulative liability for all claims relating to the Electric Vehicle Supply Equipment exceed the price you paid for the Electric Vehicle Supply Equipment. The limitations set forth herein are intended to limit our campany's liability and shall apply to any failure of the essential purpose of the limited remedy.

The final interpretation right belongs to us.

Model No. : ACH-XXXX, ACM-XXXX

Band	Transmit(MHZ)	Receive	Max.RF Output Power	Antenna gain(dBi)
WLAN 2.4GHz	2400~2483.5	2400~2483.5	18.3dBm	3.3
RFID	13.56MHz	/	4.76dBuA/m@3m	0
BLE	2402~2480	2402~2480	7.7dBm	3.3

Model No. : ACC-XXXX, ACS-XXXX

A7682E	Frequency Bands LTE-FDD B1/B3/B5/B7/B8/B20: 23dBm+/-2.7dB GSM/GPRS/EDGE 900/1800 MHz: 33dBm ±2dB
RFID	transmit 13.56MHz, max.RF outputpower 4.76dBuA/m@3m antenna gain 0

Hereby, [XXX], declares that this [AC electric vehicle charging station] is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU.

Check us out here!
We have professional customer service!