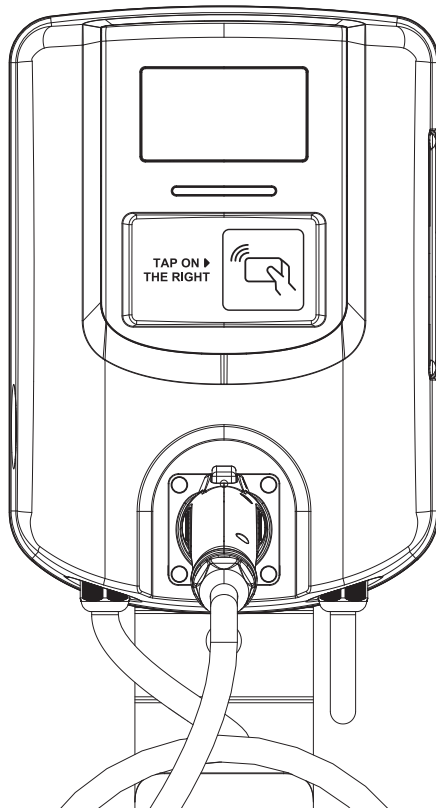


EVSE User Manual



P/N: 84A99900078-HE1

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1. Important Safety Instructions

Please read these Important Safety Instructions and the charging instructions in your vehicle owner's manual before charging your electric vehicle. Failure to do so can result in death or serious injury. Save this user guide for future reference. There are many safety features built into the charger. Read all the safety information and warnings in this guide to be aware of any hazards and risks associated with using this device.

Warning

When using electric products, basic precautions should always be followed, including the following. This manual contains important instructions that shall be followed during installation, operation and maintenance of the unit.

- Do not install or use the device near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Turn off input power at the circuit breaker before cleaning the device.
- The device is designed only for vehicles that are compatible with the SAE J1772 Level 2 charging standard.
- Do not use the device if it is defective, appears cracked, frayed, broken or otherwise damaged, or fails to operate.
- Do not attempt to open, disassemble, repair, tamper with, or modify the device. The device is not user serviceable. Contact our Customer Service for any repairs.
- Do not use the device when either you, the vehicle, or the device is exposed to severe rain, snow, electrical storm or other severe weather.
- When transporting the device, handle with care and do not subject it to strong force, drag or step on the device.
- Do not touch the charger end terminals with sharp metallic objects.
- Do not forcefully pull the charge cable or damage it with sharp objects.
- Do not put fingers or insert foreign objects into any part of the charging vehicle connector.
- Using with a worn or damaged AC outlet may cause burns or start a fire.
- Risk of explosion. This device has arcing or sparking parts that should not be exposed to flammable vapors.
- Risk of electric shock. Do not remove cover or attempt to open the enclosure of the device. No user serviceable parts inside. Refer servicing to qualified service personnel.

To reduce the risk of fire, connect only to a circuit provided with 40 amperes maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.1.

Warning

- This device should be installed, adjusted, and serviced by qualified electrical personnel familiar with the construction and operation of this type of device and the hazards involved. Failure to observe this precaution could result in death or severe injury.
- Incorrect installation and testing of the charger could potentially damage either the vehicle's battery and/or the device itself. Any resulting damage is excluded of the warranty for the device.
- Ensure that the EV cable is well positioned during charging, so it will not be stepped on, tripped over, or subjected to damage or stress.
- Do not use this device with a frayed EV cable which has damaged insulation, or any other sign of damage.
- Never leave children unattended while the vehicle is charging and never allow children to play with the EV cable.
- Confirm with the local electrical requirements for the gauge, temperature rating, and type of wire material used for the overcurrent rating.
- Lockout all electrical source circuit feeding the device in the open position before beginning wiring or terminations. Failure to follow the instructions could result in severe bodily injury or death.

Federal Communication Commission Interference Statement

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 This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.

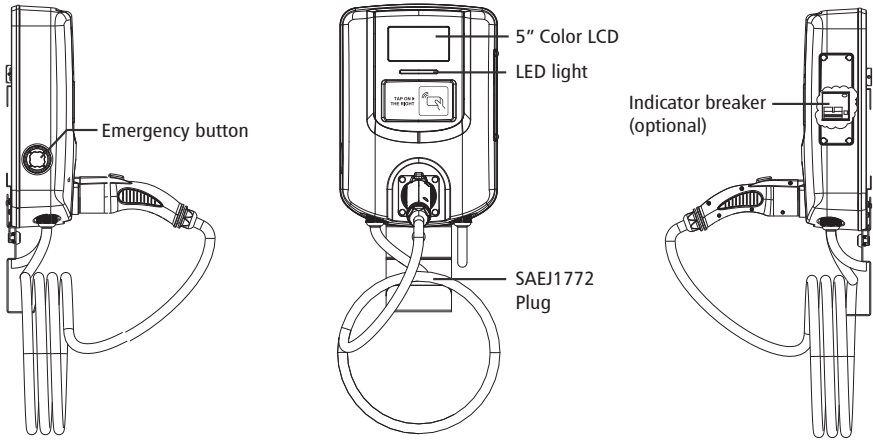
FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Radiation Exposure Statement:

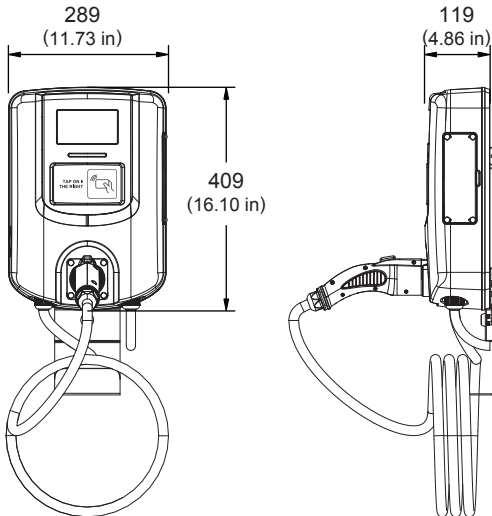
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

2. EV AC Charger



3. Main size of charger (Unit: mm)



4. Specification

Electric apparatus characteristics specifications	
Product Name	AH32_ EV AC Charger
Model Name	EA702C1U
Rated Input Voltage	200 - 240VAC / Single phase
Rated Output Current	32A
Power Frequency	50/60Hz
Ground Protection Detection	Warning for disconnect input power grounding
Input Side	UVP, OVP, Residual current detection, Surge protection, Ground fault
Output Side	OCP & Pilot fault
Internal	OTP, Relay welding detection, MCU function fault detection
CCID/RCD	CCID 20
General Charging Requirements	SAE J1772
Charging Coupler Connector*	SAE J1772
Storage Temperature	-40°C to +70°C
Operating Temperature	-30°C to +50°C
Relative Humidity of Operation	90%RH Maximum
Relative Humidity of Storage	95%RH Maximum
Communication	Ethernet 10M/100M(standard), 4G(optional), WiFi(optional)
RFID	ISO/IEC 14443A/B, ISO/IEC 15693, Felica™, NFC, Mifare
Mechanism specifications	
Cable length	5M
Protection level	TYPE 3R
Installation form	Wall-mounted (standard), stand type (optional)

5. Status Description of the Charger Indicating Light

LED Status	Stand-by	Ready for Charging	Charging	Charging Completed	Warning
Red	–	–	–	–	Continuous lighting
Blue	Continuous lighting	Fading out	–	–	–
Green	–	–	Fading out	Continuous lighting	–

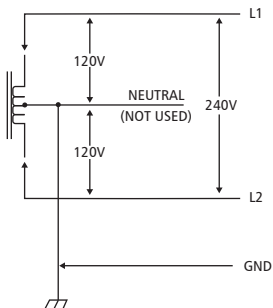
6. Installation Instructions

SAFETY REQUIREMENTS

- Be sure to preview the standard operating procedures (SOP) 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 instruction manual and local safety regulations.
- Use appropriate protection when connecting to the main power distribution cable.
- Type B, C or D breaker in the upstream panel should be installed, and the rating current of the breaker should be 40A.
- Disconnect switch for each ungrounded conductor of ac input shall be provided by others in accordance with the National Electric Code, ANSI/NFPA 70.

6.1 Service Wiring

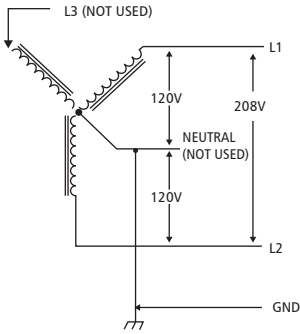
- 240V Single-Phase



CAUTION!

THE EVSE is a single-phase device. Do not connect all three phases of a three-phase feed. The two phases used must each measure 120 V to neutral. Earth ground must be connected to neutral at only one point, usually at the breaker panel.

- 208V Single-Phase



CAUTION!

THE 208V IS FED FROM Y-CONNECTION POWER GRID, AC CHARGER CAN CONNECT TO L1 AND L2, L2 AND L3, L1 AND L3. EARTH GROUND MUST BE CONNECTED TO NEUTRAL AT ONLY ONE POINT, USUALLY AT THE BREAKER PANEL.

6.2 Wall-Mounted Installation Requirements

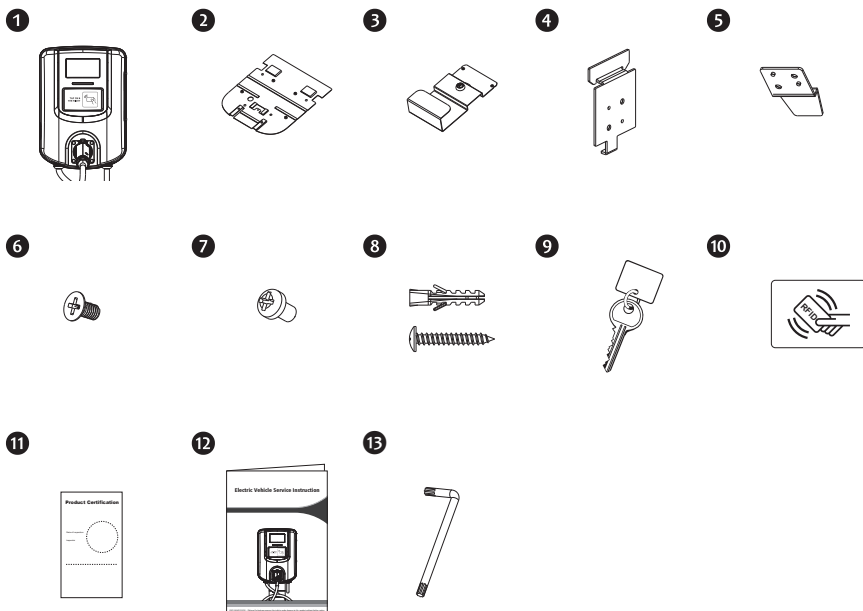
Attach the bracket using fasteners that are appropriate for the type of wall material, drilling pilot holes if necessary. Use the supplied screws only if mounting the bracket directly to a wooden stud. If mounting to another type of wall (hollow, masonry, etc.), use fasteners that are long enough to securely anchor the Wall Connector and can hold up to 36 kg.

6.3 EVSE Installation Requirements

Choose the Best Location for the Wall Connector Determine the parking location of the vehicle to ensure that the charge cable reaches the charge port. The Wall Connector should be located:

- In an enclosed garage, typically on the vehicle's charge port side.
- In a well-ventilated area. Avoid installation in an enclosed box, or adjacent to hot appliances.
- 4 ft (1.2 m) above the floor.
- 8 in (190 mm) from any obstructions to allow for cable looping.

6.4 Packing list



No.	Content	Quantity	Remarks
1	EVSE CHARGER	1	
2	WALL BRACKET	1	
3	CABLE HOOK	1	
4	BOTTOM CASE HOOK	1	
5	BOTTOM CASE HOOK	2	
6	SCREW M4	2	
7	SCREW M5	6	
8	EXPANSION SCREW	4	
9	KEY	2	
10	RFID CARD	2	
11	PRODUCT CERTIFICATION	1	
12	USER MANUAL	1	
13	HEX WRENCH T8	1	

6.5 Tools and Materials Required

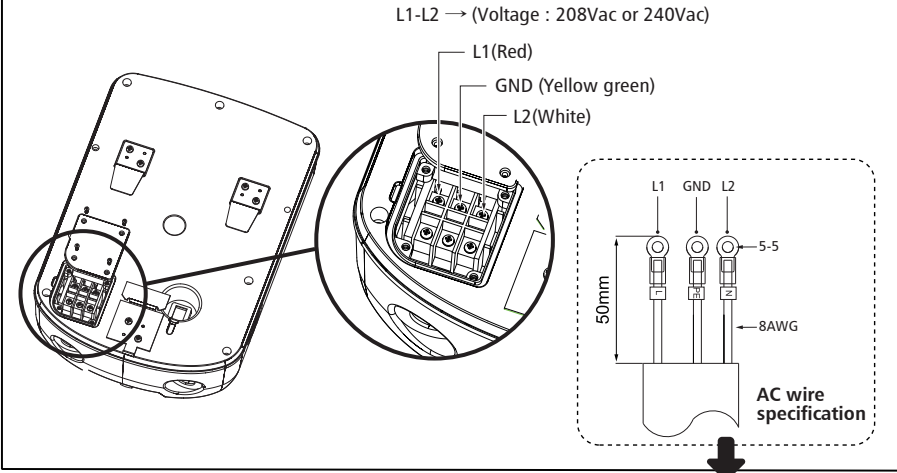
Tools required before installing the wall connector, gather the following tools:

- Pencil or marker
- Hole punch (optional, to push through cardboard template)
- Wire stripper
- Voltmeter or digital multimeter (to measure AC voltage at the installation site)
- Phillips screwdriver
- T8 Torx driver
- Cable Gland information:
 1. The AC input cable through hole of Cable Gland is 13~18mm (0.5" ~0.7")
 2. If currently cable glands is not suitable to used, please choose a suitable cable glands. The AC input cable through hole of the EVSE is 28.5mm / 1 $\frac{1}{8}$ "
- Ferrules (the diameter of the ferrule depends on the diameter of the power wiring and the construction)
- Wiring use cable 8AWG (Max diameter: 8.36 mm); Max cross-sectional area: 8.36mm² for a maximum of 15 m between Wall Connectors.
- Level
- Machine drill

6.6 Installation steps

STEP 1

1. Select the position of the pile, configure the power and the wall surface to be applied. Open the back cover and install the AC power cord.

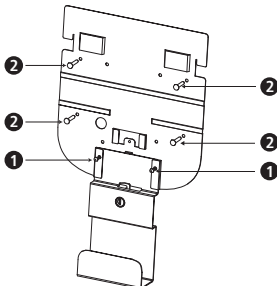


- A device employing pressure terminal connectors for field wiring connections shall be provided with instructions specifying a range of values or a nominal value of tightening torque to be applied to the clamping screws of the terminal connectors.
- Use No. 8 AWG , 75°C copper wire and 17.7 lb-in (2.0 N-m) Torque force when connecting to I/P Terminal Block.

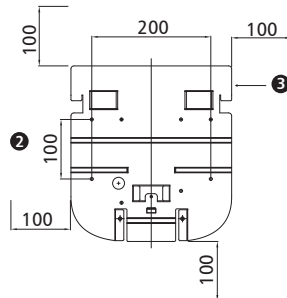
STEP 2

Assemble the back hanger.

1. Use M4 x 2 screws which are numbered 1 to lock. (Fig. 1)
2. Use STP5-32 x 4 expansion screws which are numbered 2, and instal the wall mount shelf to the mounting wall. (Fig. 1)
3. Fig. 2 shows the installion of the wall bracket. The surroundings around the wall bracket need to be kept at least 100mm away from the wall bracket.



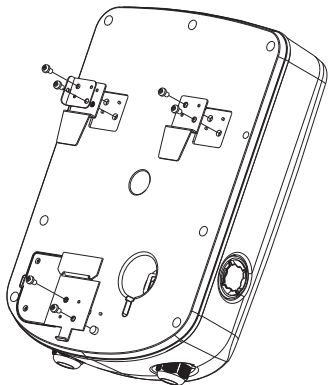
(Fig. 1)



(Fig. 2)

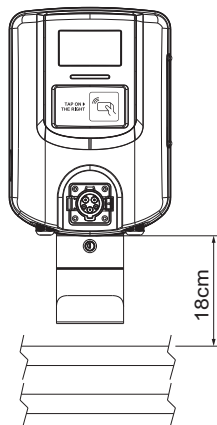
STEP 3

1. Assemble the case hooks.
2. Screw the hooks to the EVSE using M5 x 6 screws.



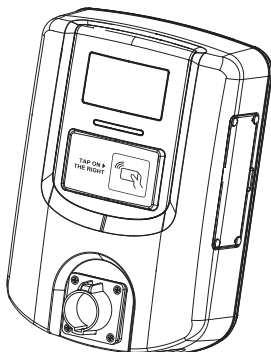
STEP 4

1. Mount the EVSE on the bracket.
2. During cable installation the space between the cable and the EVSE shall be more than 18cm.



STEP 5

1. Turn on the power from the box.
2. Wait for the EVSE to start.
3. When the blue light is on, the EVSE is ready to charge.



7. Operating Instructions

7.1 Operation Procedure

- User authorization ● Connection to the charging gun
- Charging message ● Charging completed

* If you need to authorization an RFID card, you need to connect to the backend system.

7.2 Operation Steps Description (please refer to the insert)

7.3 Error and Warning Message

Item	Protected Content	Reset Method
1	Input over voltage	Automatic reset.
2	Input under voltage	Automatic reset.
3	Output over current	Unplug charging gun or power cycle of AC charger to clear warning status.
4	Input power grid grounding disconnect	Automatic reset.
5	Output leakage current over limit	If this protection function trip, AC charger will retry charging after 15 minutes and up to 4 times, after that will latch off. Unplug charging gun or power cycle of AC charger to clear warning status.
6	Output leakage current self-test fail	Power cycle of AC charger to clear warning status.
7	Abnormal connection with electric vehicle	Automatic reset.

7.4 Troubleshooting

- If any error messages occur during charging, follow the instructions in the above table to troubleshoot.
- If the problem may not be eliminated, please contact the management unit or contact our Customer Service.
- During operation, if any emergency needs to be interrupted immediately, press the emergency stop button on the charger.

8. Maintenance and repair

8.1 Daily maintenance

- Please keep the product clean and keep the product in a clean area with low humidity. Do not install it in an environment near the sea, with high oil, high humidity or high dust.
- Avoid moisture or water in the product. If there is water or moisture in the body, 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 charging gun, charging gun cable, or charging gun holder, please contact the maintenance personnel immediately.
- Please use the product properly. Do not hit or press hard on the case. If the case is damaged, please contact a professional technician.
- Avoid placing the product 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 product (including the power cord and charging gun cable) to avoid danger.

8.2 Maintenance spares

- This product 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 Pihong Technology. For details, please contact your local Pihong Technology service partner or direct to our Customer Service.

8.3 Warranty and Maintenance

- The warranty period for this product is two years parts and labour.
- Any spare parts provided by Pihong 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 Pihong Technology
- After the event of any repair or maintenance under the warranty period, if there is no purchase to extend the warranty service, Pihong 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 the Pihong Technology), the product shall be repaired free of charge. Except for the following situations, the charging device 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.
 9. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment
 10. 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.
- This statement is valid only in USA.

8.4 Maintenance history

Product name _____ Factory number _____

Product model _____

Factory date _____ (month) _____ (day) _____ (year)

Name of Customer _____

Tel _____

Address _____

1. Maintenance content

After service _____ Signature of Customer _____

2. Maintenance content

After service _____ Signature of Customer _____

3. Maintenance content

After service _____ Signature of Customer _____

4. Maintenance content

After service _____ Signature of Customer _____

5. Maintenance content

After service _____ Signature of Customer _____