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Safety

1.1 Warning

WARNING

These instructions must be adhered to during the installation, operation, and maintenance of the unit.

1. Please thoroughly review all instructions before using this product.
2. When used in proximity to children, ensure constant supervision of this device.
3. Do not insert fingers into the electric vehicle connector.
4. Refrain from utilizing this product if the flexible power cord or EV cable displays signs of fraying, damaged insulation, or any other indications of wear.
5. Do not use this product if the enclosure or the EV connector is broken, cracked, open, or exhibits any other forms of damage.
6. To mitigate the risk of fire, exclusively connect to a circuit equipped with branch circuit over-current protection in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada), NOM-001-SEDE Electrical Installations (Utility) (Mexico), or ANSI / NFPA 70 National Electrical Code (USA).
7. To prevent the risk of fire or electric shock, refrain from employing this device in conjunction with an extension cord.
8. THE APPROPRIATENESS OF UTILIZING FLEXIBLE CORDS IN ACCORDANCE WITH CE CODE, PART I, RULE 4-012, MUST BE DECIDED UPON BY THE LOCAL INSPECTION AUTHORITY WITH JURISDICTION.
9. There is a risk of electric shock. Do not remove the cover or attempt to access the enclosure. There are no serviceable components inside. For any servicing needs, please consult qualified service personnel.

Circuit Breaker Options table				
Output Amperage (A)		32A*2	40A*2	48A*2
Circuit Breaker Options (A)	Method 1	40A*2	50A*2	60A*2
Circuit Breaker Options (A)	Method 2	80A	100A	120A

This device complies with part 15 of the FCC Rules.

Operation is contingent upon compliance with the following two stipulations:

This device shall not generate harmful interference.

This device must accept any interference it receives, including interference that might lead to unintended operation.

Any alterations or adjustments made to this equipment that have not received explicit approval from the entity responsible for ensuring compliance may result in the user losing their authority to operate the unit.

Safety

1.2 Installation Requirements

1.3 Daily Maintenance

1.2 Installation Requirements

1. Disconnect electrical power before installing the charging station.
2. Review the user manual and ensure compliance with local building and electrical codes prior to installation.
3. The AC charger must be installed by a qualified technician in accordance with the user manual and local safety regulations.
4. Ensure proper protective gear is used when connecting to the main power distribution cable.
5. Install a Type B, C, or D breaker with the current rating specified in the table in the upstream AC distribution box.
6. The device should be mounted at a height between 2 feet and 4 feet from the ground.
7. Please ensure that the charger is placed in a clean area with low humidity. Avoid installing it in coastal environments with high humidity or high dust levels.

1.3 Daily Maintenance

1. Avoid moisture or water in the charger. If water enters, power off immediately to prevent danger, and seek professional maintenance before next use.
2. Use the charger carefully. Avoid impact or pressure on the enclosure. Contact a professional technician if damaged.
3. Keep the charger away from hot objects and high-temperature areas, and avoid exposure to flammable gases or corrosive materials.
4. Do not place heavy objects on the charger to prevent hazards.

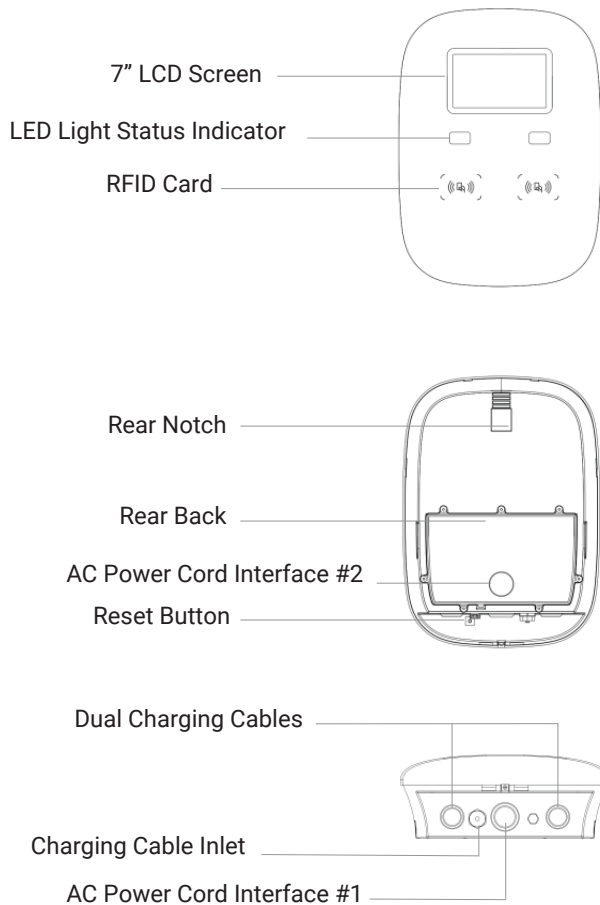
Introduction

2.1 Interface Basics

2.2 Dimensions

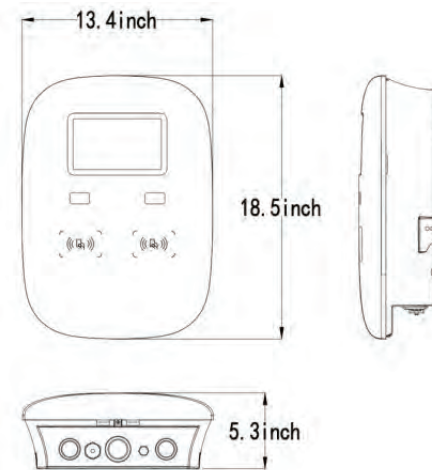
CAUTION: Do not place the charger near hot objects or in high-temperature locations. Keep it away from dangerous substances such as flammable gases and corrosive materials.

2.1 Interface Basics

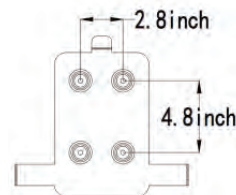


2.2 Dimensions

Enclosure



Wall-Mounted Bracket



Introduction

2.3 Specifications

Model Number	EVC8
Rated Input Voltage	208/240VAC
Rated Output Current	32A*2/ 40A*2/ 48A*2
AC Power Frequency	50-60 Hz
Input Protection	UVP, OVP, RCD, SPD, Ground Fault Protection
Output Protection	OCP, OTP, Control Pilot Fault Protection
Output Interface	SAE J1772AC Charging Connector/ Plug
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	25ft
Protection Level	Type 3
Installation Type	Wall-Mounted or Pedestal
Altitude	≤ 6561ft
Status Indication	Red, Green, Blue LED

Verify Contents

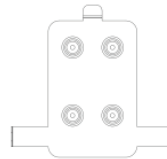
3.1 Parts



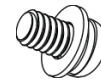
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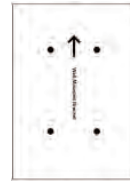
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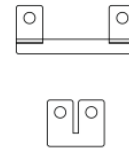
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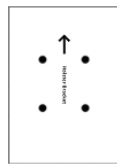
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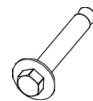
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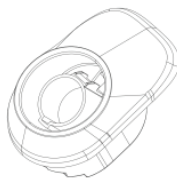
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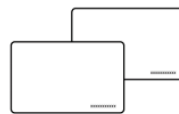
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15

Verify Contents

3.1 Parts

No.	Product Name	Quantity	Description
1	AC Charger	1	Two Charging Cable
2	User Manual	1	Please read carefully before use
3	Wall-Mounted Bracket	1	For mounting the charging station to the wall/structure
4	M5 Anti-Theft Round Head Screws	2	For securing the charging station to the Mounting Bracket
5	M6 Hexagonal Expansion Screws	4	For installing the Mounting Bracket to the wall/structure
6	Allen Wrench	1	For tightening M5 Screws
7	Corrugated Mounting Template	1	For easy drilling of 4 screws holes for wall-mounted bracket.
8	Shorting Terminal	1	Using in Wiring Method 2
9	Tinned Copper OT Terminal	6	For electrical wiring
10	Corrugated Mounting Template (Optional)	2	For easy drilling of 4 screws holes for holster bracket
11	Holster Bracket Screws (Optional)	8	For mounting the Holster Bracket to the wall/structure
12	Holster Bracket (Optional)	2	For fixing the Plug Holster
13	Plug Holster Screws (Optional)	2	For mounting the Plug Holster to the Holster Bracket
14	Plug Holster (Optional)	2	For allowing the plugs to be neatly and safely stored when not in use.
15	RFID Card (Optional)	2	Control the charger start/stop

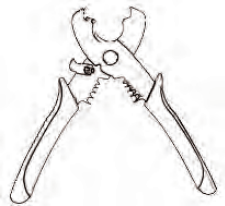
Tools

4.1 Preparation

Tools and Materials Required

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

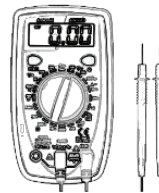
1. Wire stripper
2. Adjustable wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. OT terminal crimping pliers
5. Level
6. Pencil or marker
7. Drill
8. Phillips screwdriver



1



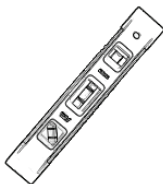
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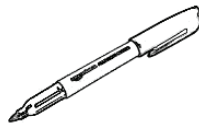
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Wiring

5.1 Wiring the Circuit



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

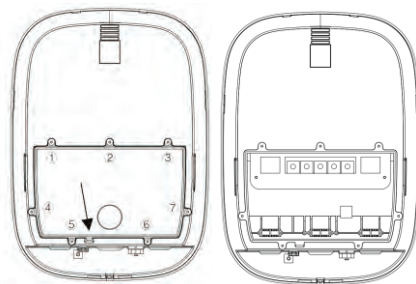


WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have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



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

To ensure safe electricity usage, please install circuit breaker protection in the input part of the EV Charger. The wiring process is straightforward; simply follow the instructions below:



Remove the 7 screws from the rear back of the EV charger, and then press the groove indicated by the arrow in the figure to detach the rear back. We offer two wiring methods.

Method 1: Utilize two AC Power Cords and two Charging Cables.

Method 2: Employ one AC Power Cord and two Charging Cables. Connect AC1_L1 and AC2_L1 using shorting terminals, and connect AC1_L2 and AC2_L2 using shorting terminals.

Please be aware that AC Power Cord Interface #1 is typically used, while #2 serves as a spare.

Wiring

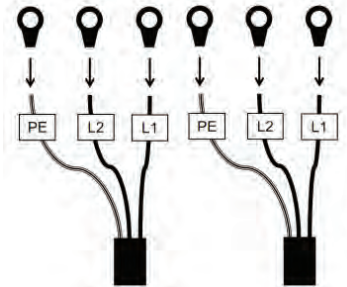
5.1 Wiring the Circuit

Method 1: Two AC Power Cords

Circuit Breaker Options table			
Output Amperage (A)	32A*2	40A*2	48A*2
Circuit Breaker Options (A)	40A*2	50A*2	60A*2

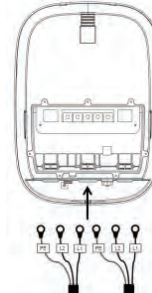
Step 1

Press the wires of the AC power cord onto the OT terminals provided in the accessory kit.



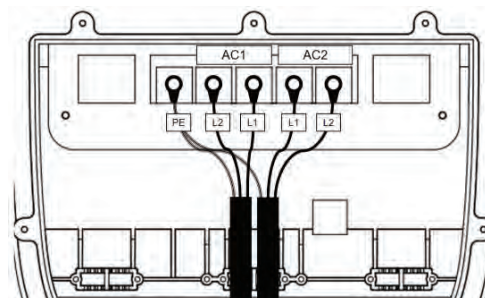
Step 2

Thread the two AC power cords through AC Power Cord Interface #1.



Step 3

Connect the five terminals according to the wiring methods illustrated in the accompanying image, and ensure to connect the two PE terminals together.



Wiring

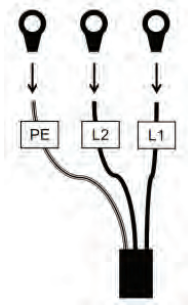
5.1 Wiring the Circuit

Method 2: One AC Power Cord

Circuit Breaker Options table			
Output Amperage (A)	32A*2	40A*2	48A*2
Circuit Breaker Options (A)	80A	100A	120A

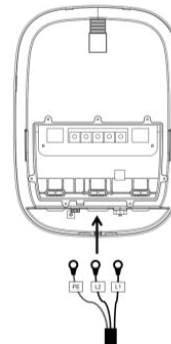
Step 1

Attach the wires of the AC power cord onto the OT terminals provided in the accessory kit by pressing firmly.



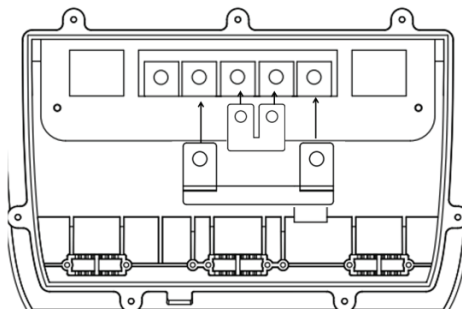
Step 2

Thread the AC power cord through AC Power Cord Interface #1.



Step 3

Retrieve the shorting terminals from the accessory package. Connect AC1_L1 and AC2_L1, and connect AC1_L2 and AC2_L2 as depicted in the wiring methods image.

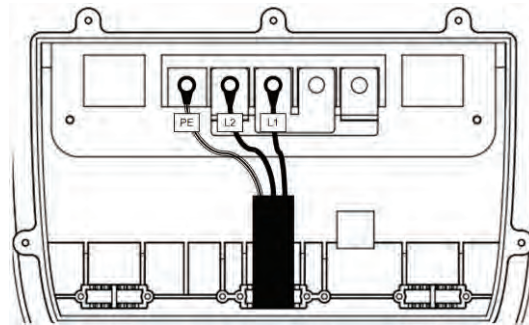


Wiring

5.1 Wiring the Circuit

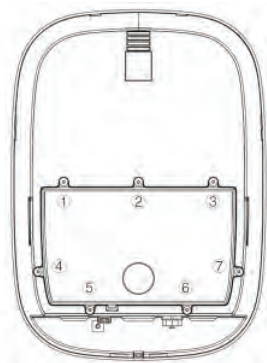
Step 4

Connect to the three terminals as indicated in the wiring methods image: L1 to L1, L2 to L2, and PE to PE.



Step 5

Once the wiring is complete, cover the rear back and securely tighten the 7 screws.



Mounting Plan

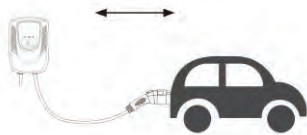
6.1 Installation Location



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.



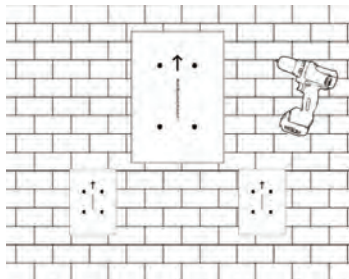
CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.



Step 1

Select the appropriate mounting location with electrical capacity:

- I. Ensure the owner has chosen a mounting location that allows the charging cable to reach the car’s charging port while still providing slack.
- II. The device must be anchored into a mounting surface such as a 3.14” x 5.11” stud or a solid wall.
- III. The device shall be mounted at a height between 2 feet and 4 feet from the ground.

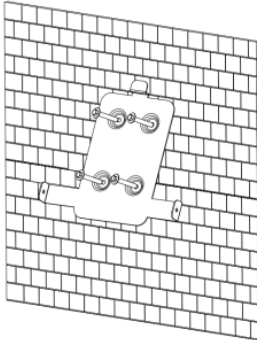


Step 2

Use our mounting template to drill 12 screw holes with a diameter of 0.33 inches and a depth of 2.2 inches. Ensure that you drill the screw holes in the direction indicated by the template arrow.

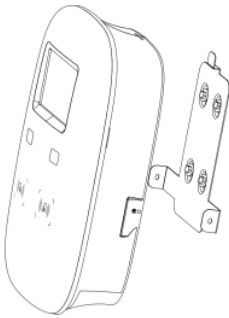
Mounting the Charging Station

7.1 Installation



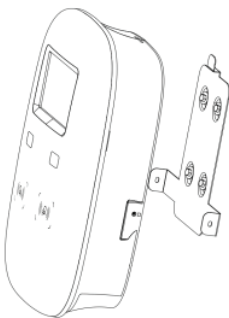
Step 1

Use 4 sets of Hexagonal Expansion Screws to secure the wall-mounted bracket on the wall. Then, ensure that the brackets are leveled.



Step 2

Align the rear notch of the charger with the wall-mounted bracket and position the screw holes on the right and left sides accordingly.

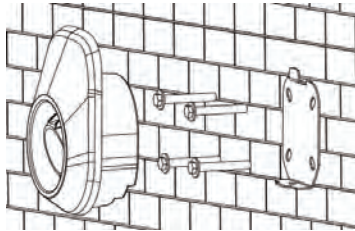


Step 3

Tighten two M5 anti-theft screws to complete the installation process.

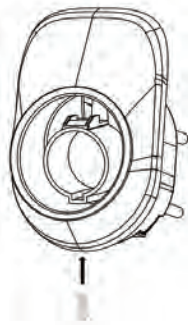
Mounting the Charging Station

6.1 Installation



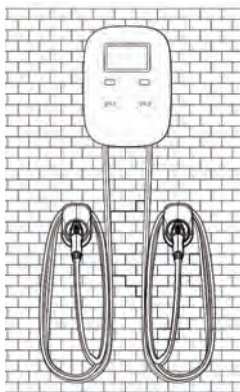
Step 4

Install the holster following the same mounting procedure as demonstrated in the figure for the charger.



Step 5

Tighten one M5 anti-theft screw to complete the installation process.



Step 6

Picture after installation (Holster is optional).

Operate Device

8.1 Plug and Charge



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 place heavy objects on the charger to avoid danger.

1

8.1 Steps for Plug and Charge



Standby - Blue Light

The READY light is steady in standby mode.



Plug in

Please insert the charging connector into the vehicle's charging inlet.

Operate Device

8.1 Plug and Charge

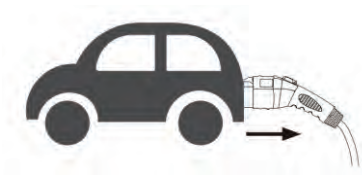
8.2 RFID Charge



Charging - Flashing Green Light

The green light (CHARGE) will automatically start flashing once the charging process begins

- If the red light (FAULT) turns on, please reconnect the vehicle connector.
- If the red light persists, refer to the "Error and Warning Messages" section for further guidance.



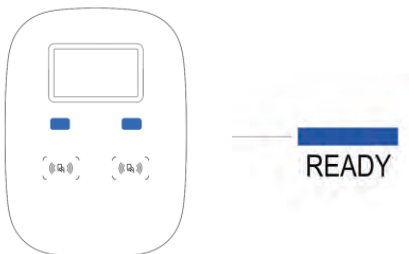
Charge Complete

When charging is complete, the green light (CHARGE) will remain steadily lit. Please remove the charging connector.



CAUTION: Please keep your RFID card properly to avoid unnecessary loss.

8.2 Steps for RFID Charge

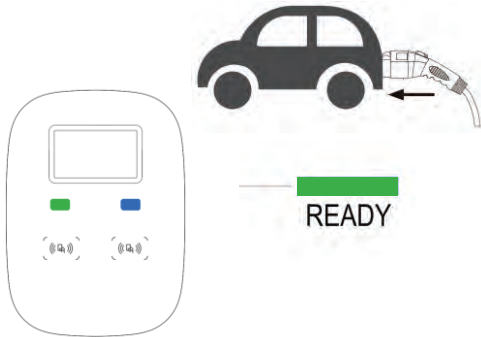


Standby - Blue Light

After powering on, all lights—blue (READY), green (CHARGE), and red (FAULT)—are illuminated. In standby mode, the blue light (READY) remains constantly on.

Operate Device

8.2 RFID Charge



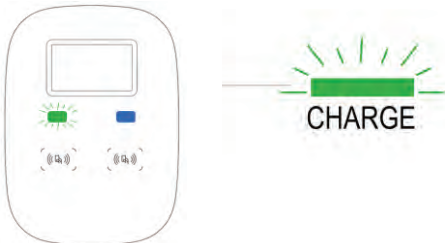
Ready to Charge

Please plug the charging connector into the vehicle charging inlet. Once the green light (CHARGE) remains constantly illuminated, the user can swipe the RFID card.



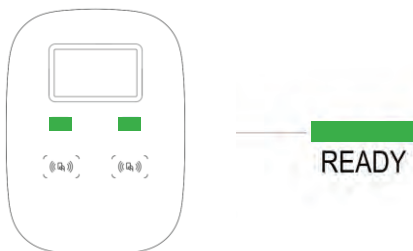
Swipe the RFID Card

Swipe the RFID card first, then plug in the charging connector within 120 seconds. Failure to do so will require swiping the RFID card again.



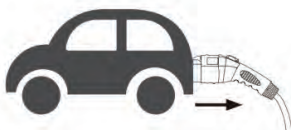
Charging

The green light (CHARGE) automatically starts flashing, indicating that charging is in progress. If the red light (FAULT) turns on, please reconnect the charging connector. If the red light persists, refer to the "Error and Warning Messages" section for further instructions.



Charge Complete

Once charging is complete or after swiping your RFID card, the green light (CHARGE) will remain steadily illuminated. To disconnect, press the button on the connector and pull it out.




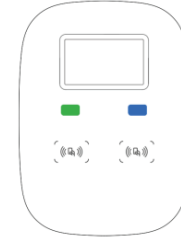
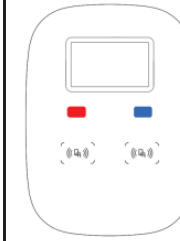


Light Codes

9.1 Start-up

9.2 Error & Warning Messages

9.1 Start-up

Standby, waiting to plug in	Waiting to charge, communicating with vehicle	Charging in progress	Finished charging	Fault
				
Solid Blue	Solid Green	Green Blinking	Solid Green	Solid Red

9.2 Error & Warning Messages

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

FCC Declaration

FCC Declaration

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and 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 their own expense.

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

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

Warranty & Maintenance

Warranty & Maintenance

- The warranty period for this charger is three years.
- During the warranty period, any malfunction under normal use according to the User Manual (as determined by certified maintenance technicians of the seller) will be repaired free of charge. However, the following situations are exempt from the warranty terms:
 1. Inability to provide a warranty certificate, or if the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
 2. Failure to provide valid proof of purchase.
 3. Exceeding the manufacturer's specified warranty period.
 4. Damage to the product due to failure to follow the product service instructions for use, maintenance, and storage.
 5. Damage or malfunction caused by the entry of external objects.
 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, including improper use of equipment such as water or other solutions entering the equipment.
 9. Malfunction and damage caused by grid power supply and voltage not specified for use with the charger equipment.

The above guarantees are exclusive, and no other express or implied warranties are made (including implied warranties of merchantability, fitness for a particular purpose, and non-infringement). The company shall not be liable for any special, incidental, or consequential damages, whether in contract, negligence, or otherwise.