



18FT
CHARGING
CABLE

EVC15 Series (NA) - User Manual

Electric Vehicle AC Charger

ATTENTION: Installers, please read this manual thoroughly

TABLE OF CONTENTS

1. IMPORTANT SAFETY INSTRUCTIONS 2

2. PRODUCT INTRODUCTIONS 6

3. VERIFY CONTENTS 9

4. GATHER TOOLS 11

4. PLAN THE MOUNTING 12

5. MOUNT THE CHARGING STATION 13

6. WIRE THE CIRCUIT 14

7. OPERATE YOUR DEVICE 15

8. LIGHT CODES 19

9. SMART APP GUIDE (OPTIONAL) 20

10. FCC STATEMENT 20

11. WARRANTY AND MAINTENANCE 21



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 (USA).

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



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:** Disconnect switch for each ungrounded conductor of AC input shall be provided by others in accordance with the National Electric Code, ANSI/NFPA70.
-  **CAUTION:** The device shall be mounted at height between 2 feet (600 mm) and 4 feet (1200 mm) from ground.
-  **CAUTION:** Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or high dust.

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:** 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).

Tableau Des Options Du Disjoncteur

Courant De Sortie (A)	16A	32A	40A	48A
Options De Disjoncteur (A)	20A	40A	50A	60A



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** : L'interrupteur de déconnexion pour chaque conducteur non mis à la terre de l'entrée CA doit être fourni par des tiers conformément au Code national de l'électricité, ANSI/NFPA70.
- ! MISE EN GARDE** : Cet appareil doit être monté à une hauteur entre 600 mm (2 pieds) et 1200 mm (4 pieds) du sol.
- ! MISE EN GARDE** : Veuillez conserver le chargeur dans un endroit propre et peu humide. Il n'est pas recommandé de l'installer dans des environnements côtiers à forte humidité ou à forte poussière.

1.3 Entretien Quotidien

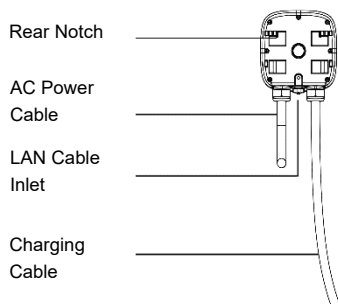
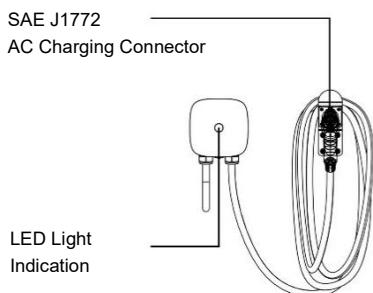
- ! MISE EN GARDE** : Évitez l'humidité ou l'eau dans le chargeur. En cas d'infiltration d'eau ou d'humidité dans le chargeur, il est nécessaire de l'éteindre immédiatement pour éviter tout danger immédiat et d'avertir le personnel professionnel d'effectuer l'entretien avant la prochaine utilisation.
- ! 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.

2. Product Introductions



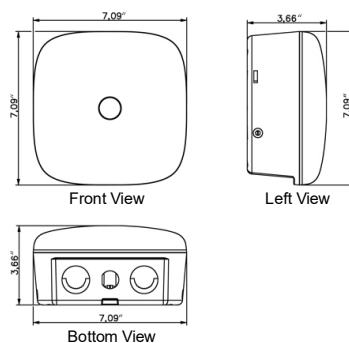
CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

3.1 Basic Interface

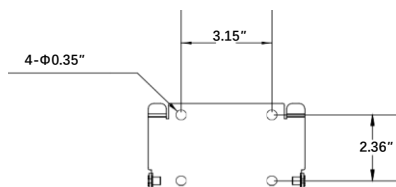


3.2 Basic Dimension

Enclosure



Wall-Mounted Bracket



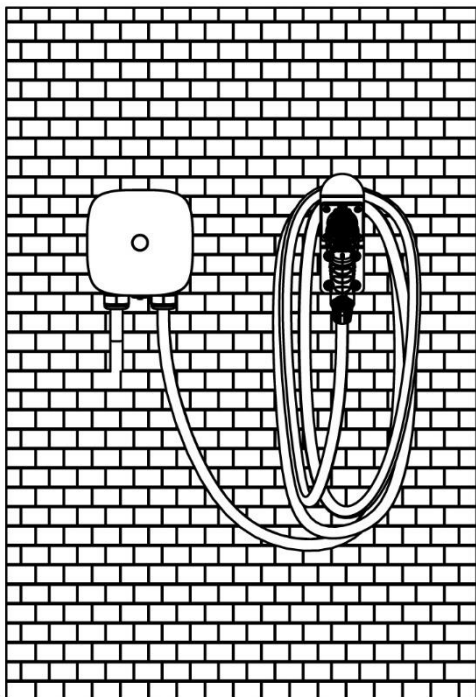
3.3 Specifications

Model Number	EVC15
Rated Input Voltage	200-240 VAC
Rated Output Current	16/32/40/48A
AC Power Frequency	60 Hz
Input Protection	UVP, OVP, RCD, SPD, Ground Fault Protection
Output Protection	OCP, OTP, Control Pilot Fault Protection
Output Interface	SAE J1772 AC Charging Connector
Storage Temperature	-40°F to 158°F
Operation Temperature	-22°F to 122°F
Relative Operation Humidity	95% RH Maximum
Relative Storage Humidity	95% RH Maximum
RFID Authentication	LAN Version / Wi-Fi Version
RJ45 Cable Inlet* ¹	10M / 100M Base-T
Wi-Fi Function* ²	802.11 b/g/n
Cable Length	18ft
Protection Level	Type 3
Installation Type	Wall-Mounted
Altitude	≤ 6561ft
Status Indication	Red, Green, Blue LED

*1 LAN Version or Wi-Fi Version

*2 Wi-Fi Version

3.4 Design Standards



UL 2594: Electric Vehicle Supply Equipment

UL 2231-1: UL Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements

UL 2231: Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems

UL 2251: Plugs, Receptacles and Couplers for Electric Vehicles

UL 62: Flexible Cords and Cables

UL 991: Tests for Safety-Related Controls Employing Solid-State Devices

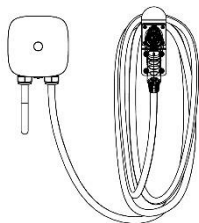
UL 1998: Software in Programmable Components

NFPA 70 Article 625: National Electrical Code, Electric Vehicle Charging System

UL 840 (Clearance and Creepage)

3. Verify Contents

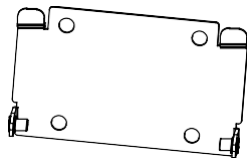
Check the box to ensure you have this installation guide and these parts:



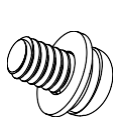
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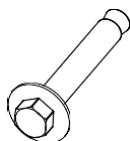
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3



4



5



6



7



8



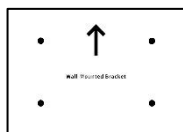
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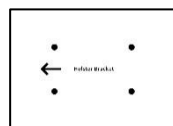
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11



12



13

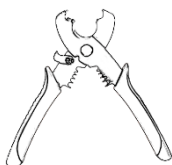
No.	Product Name	Quantity	Description
1	AC Charger	1	With attached input power cable and output charging cable
2	User Manual	1	PDF version available online
3	Wall-Mounted Bracket	1	For mounting the charging station to the wall/structure
4	M5 Anti-Theft Round Head Screws	2	For securing the charging station to the Mounting Bracket
5	M6 Hexagonal Expansion Screws	4	For installing the Mounting Bracket to the wall/structure
6	RFID Card	2	RFID Version Only
7	Allen Wrench	1	For tightening M5 Screws
8	M5 Anti-Theft Countersunk Head Screws	4	For securing the Plug Holster to the Holster Bracket
9	M6 Anti-Theft Hexagonal Expansion Screws	4	For installing the Holster Bracket to the wall/structure
10	Plug Holster	1	For allowing the plugs to be neatly and safely stored when not in use.
11	Holster Bracket	1	For mounting the Plug Holster to the wall/structure
12	Corrugated Mounting Template	1	For easy drilling of 4 screws holes for wall-mounted bracket.
13	Corrugated Mounting Template	1	For easy drilling of 4 screws holes for holster bracket.

Note: If you are missing any of these parts, please contact us @ 877-960-5408 or help@turbocharge.eco

4. Gather Tools

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

1. Wire stripper
2. Adjustable Wrench M6
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill
7. The inserting cable should meet the best waterproof performance. It is recommended to use 3 core /7AWG cable (XLPE or equivalent cable) to pull the cable from the distribution box.



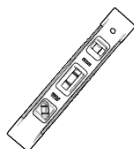
①



②



③



④



⑤



⑥

Note: The above tools are very important, please gather them all.

4. Plan The Mounting



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.

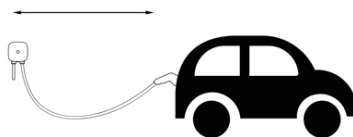


CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.

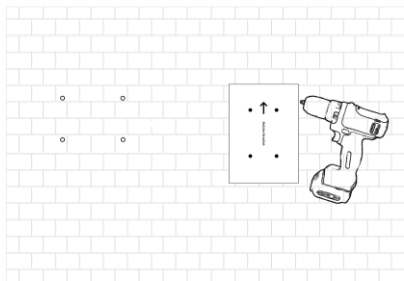
STEP 1

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 mounting such as 2" x 4" stud or a solid wall.
- III. The device shall be mounted at height between 2 feet (600 mm) and 4 feet (1200 mm) from ground.



STEP 2

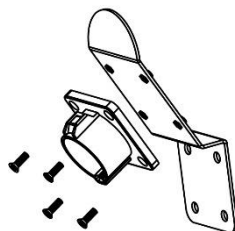


Drill 8 Screw Holes with a diameter of 0.35" and a depth of 2.05" by using 2 mounting templates. Please drill screw holes in the direction of the template arrow. And use two templates at a horizontal distance around 12 feet.

5. Mount the Charging Station

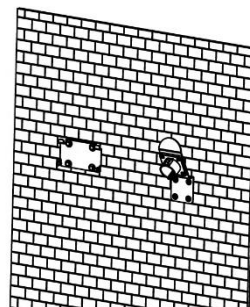
STEP 3

Secure the Plug Holster to the Holster Bracket with 4 M5 Anti-theft countersunk head screws. Please ensure the grooved part of the inner ring is always downward.

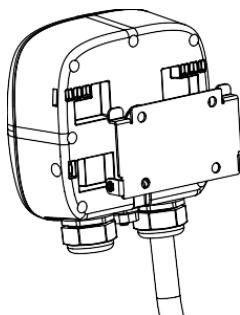


STEP 4

Use 2 different sets (8 pcs in total) of Hexagonal Expansion Screws to secure the wall-mounted bracket and holster bracket (use anti-theft hexagonal expansion screws) on the wall. Then level the brackets.

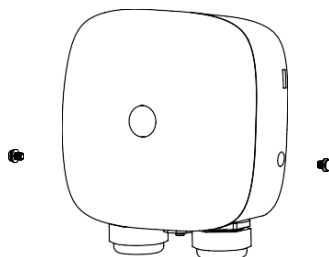


STEP 5



Align the rear notch of charger with the wall-mounted bracket and fit the screw holes of the right and left side.

STEP 6



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

6. Wire The Circuit



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



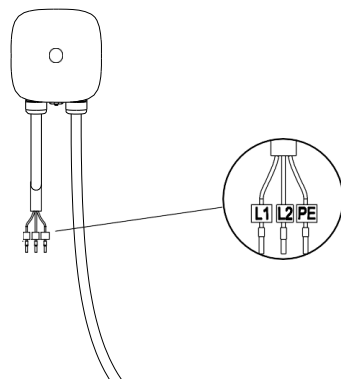
WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have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



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

STEP 7

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:
Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the PE lead to the grid PE.



7. Operate Your 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.

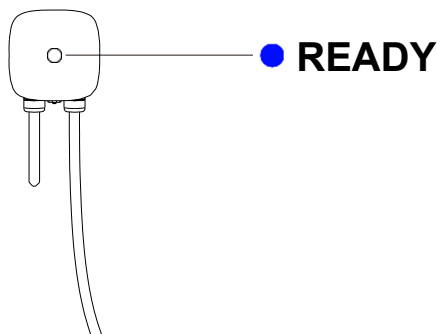


CAUTION: Do not put heavy objects on the charger to avoid danger.

7.1 Operating Steps with Plug and Charge

STEP 1

Standby Mode: After being powered on, the lights will be all on, blue light (READY), green light (CHARGE) and red light (FAULT). Then the blue light (READY) is constantly on in standby mode.



STEP 2

Plug the Charging Connector:

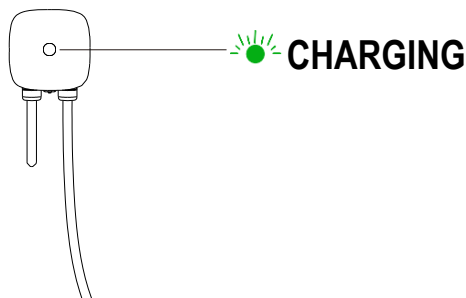
Please plug the charging connector into the vehicle charging inlet.



STEP 3

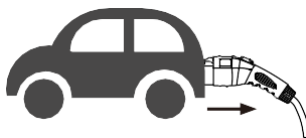
Charging: The green light (CHARGE) turns to flash automatically, charging is in process.

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



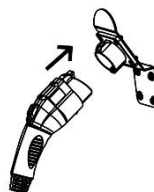
STEP 4

Charging finished: When the charging is finished, the green light (CHARGE) is constantly on, please press the button on connector and pull out the charging connector.



STEP 5

Re-plug the charging connector: when you finish the charging process, please re-plug the charging connector back to the holster, you will hear a "click" sound.



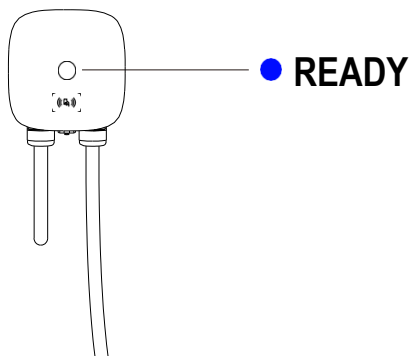
7.2 Operating Steps with RFID



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

STEP 1

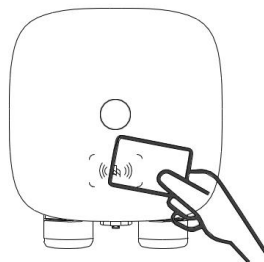
Standby Mode: After power-on, blue light (READY), green light (CHARGE) and red light (FAULT) all on. The blue light (READY) is constantly on when in standby mode.



STEP 2

Swipe the RFID Card:

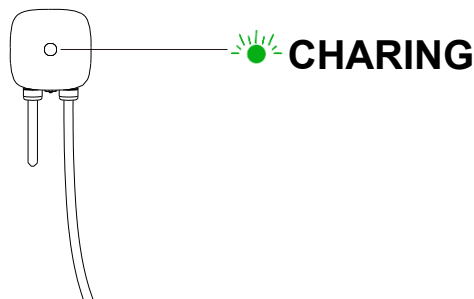
Please plug the charging connector into the vehicle charging inlet. Swipe the RFID card first and plug in the charging connector within 120 seconds, otherwise you need to swipe the RFID card again.



STEP 3

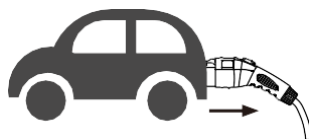
Charging: The green light (CHARGE) turns to flash automatically, charging is in process.

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



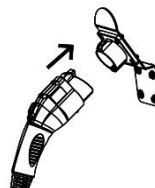
STEP 4

Charging finished: When the charging is finished, the green light (CHARGE) is constantly on, please press the button on connector and pull out the charging connector.



STEP 5

Re-plug the charging connector: when you finish the charging process, please re-plug the charging connector back to the holster, you will hear a "click" sound.



8. Light Codes

8.1 After 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

8.2 Error and Warning Messages

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

9. Smart APP Guide (Optional)

1. Download Home EV app.
2. Follow the tutorial in APP to connect your device.



For assistance: 877-960-5408 or
help@turbocharge.eco

10.FCC Statement

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 his own expense.

WIFI module: Contains FCC ID:2AC7Z-ESPWROOM32D

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 at closer than this distance is not recommended.

11. Warranty and Maintenance

- The warranty period for this charger is two years.
- During the warranty period for any malfunction under normal use according to the User Manual and Service Instructions (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 damages.