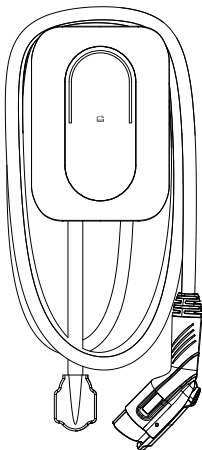


Electric Vehicle AC Charger

JNT-EVL002/48AC/01C/BK/RF/WF Series(NA)-User Manual

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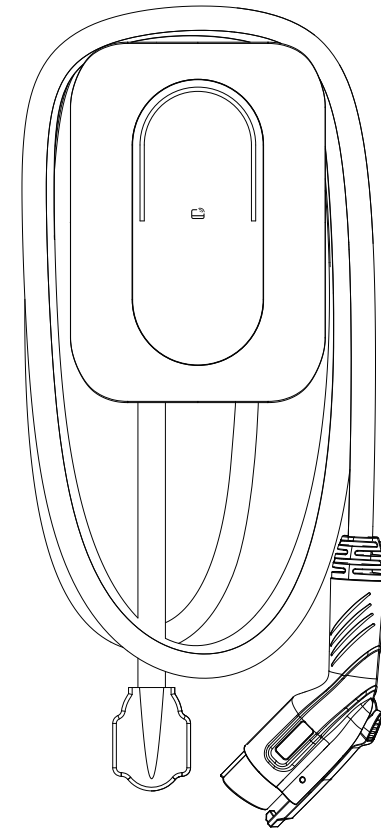
- 技术要求：
- 1. 成品规格：142 x 210 mm；
  - 2. 印刷方式：单面印刷； 双面印刷；
  - 3. 装订方式：骑马钉； 单面对折；
  - 4. 材质：70g双胶纸； 108g铜板纸；
  - 5. 印刷颜色：单黑色；
  - 6. 有条码的话，刷码等级需达到B级；
  - 7. 检验工具：卷尺，尺寸单位均为mm

|     |      |     |      |        |            |     |    |
|-----|------|-----|------|--------|------------|-----|----|
|     |      |     |      |        |            |     |    |
|     |      |     |      | 线条图提供者 |            | 设计者 |    |
|     |      |     |      |        |            |     |    |
|     |      |     |      | 排版者    |            | 审核者 | 日期 |
|     |      |     |      | 庄妍妍    | 2024.07.12 |     |    |
|     |      |     |      | 文件翻译者  |            | 批准者 | 日期 |
|     |      |     |      |        |            |     |    |
| 版本号 | 修订原因 | 修订人 | 修订日期 | 签名     | 日期         | 签名  | 日期 |
| 变更栏 |      |     |      |        |            |     |    |

| 说明书         |    |    |          | 视图/ VIEW    |  |
|-------------|----|----|----------|-------------|--|
| 零件名称        |    |    |          |             |  |
| 图纸图号        |    |    |          |             |  |
| 产品名称        |    |    |          | EVL002 (NA) |  |
| 产品型号        |    |    |          |             |  |
| 比例          | 单位 | 版次 | 次料/REG.% |             |  |
| 1:1         | mm |    |          |             |  |
| 厦门佳因特科技有限公司 |    |    |          |             |  |

# Electric Vehicle AC Charger

JNT-EVL002/48AC/01C/BK/RF/WF Series(NA)-User Manual



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**⚠ WARNING & CAUTION**

# 1. Important Safety Instructions

## 1.1 Overall Warnings & Cautions

- ⚠ WARNING:** To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.
  - **DO NOT** put fingers into the electric vehicle connector.
  - **DO NOT** use this product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.
  - **DO NOT** use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
  - **DO NOT** remove cover or attempt to open the enclosure because of risk of electric shock.
- ⚠ WARNING:** This device should be supervised when used around children.
- ⚠ WARNING:** This device must be grounded.
- ⚠ WARNING:** To avoid a risk of fire or electric shock, do not use this device with an extension cord.
- ⚠ WARNING:** The suitability of the use of flexible cord in accordance with CE code, part I, rule 4-012, is to be determined by the local inspection authority.
- ⚠ WARNING:** To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI / NFPA 70 National Electrical Code (USA).

**Circuit Breaker Options table**

|                             |     |     |     |     |     |      |
|-----------------------------|-----|-----|-----|-----|-----|------|
| Output Amperage (A)         | 16A | 32A | 40A | 48A | 70A | 80A  |
| Circuit Breaker Options (A) | 20A | 40A | 50A | 60A | 90A | 100A |

**⚠ WARNING & CAUTION**

## 1.2 Installation Requirements

- ⚠ WARNING:** Disconnect electrical power prior to installing the charging station.
- ⚠ WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- ⚠ WARNING:** The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
- ⚠ CAUTION:** Use appropriate protection when connecting to the main power distribution cable.
- ⚠ CAUTION:** Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
- ⚠ CAUTION:** The device shall be mounted at height between 2 feet and 4 feet 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 électrique (Mexique) ou ANSI / NFPA 70 National Electrical Code (États-Unis).

**Circuit Breaker Options table**

|                             |     |     |     |     |     |      |
|-----------------------------|-----|-----|-----|-----|-----|------|
| Output Amperage (A)         | 16A | 32A | 40A | 48A | 70A | 80A  |
| Circuit Breaker Options (A) | 20A | 40A | 50A | 60A | 90A | 100A |

**⚠ WARNING & CAUTION**

### 1.2 Exigence Avant L'installation

**⚠ AVERTISSEMENT** : Assurez-vous de consulter le manuel d'utilisation et assurez-vous que les codes locaux du bâtiment et de l'électricité sont passés en revue avant d'installer le chargeur.

**⚠ AVERTISSEMENT** : Débranchez l'alimentation électrique avant d'installer la station de charge.

**⚠ AVERTISSEMENT** : Le chargeur CA doit être installé par un technicien qualifié conformément au manuel d'utilisation et aux réglementations de sécurité locales.

**⚠ MISE EN GARDE** : Utilisez une protection appropriée lors de la connexion au câble de distribution d'alimentation principal.

**⚠ MISE EN GARDE** : Un disjoncteur de type B, C ou D avec le courant nominal indiqué dans le tableau doit être installé dans le boîtier de distribution CA en amont.

**⚠ MISE EN GARDE** : Cet appareil doit être monté à une hauteur entre 2 feet and 4 feet 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.

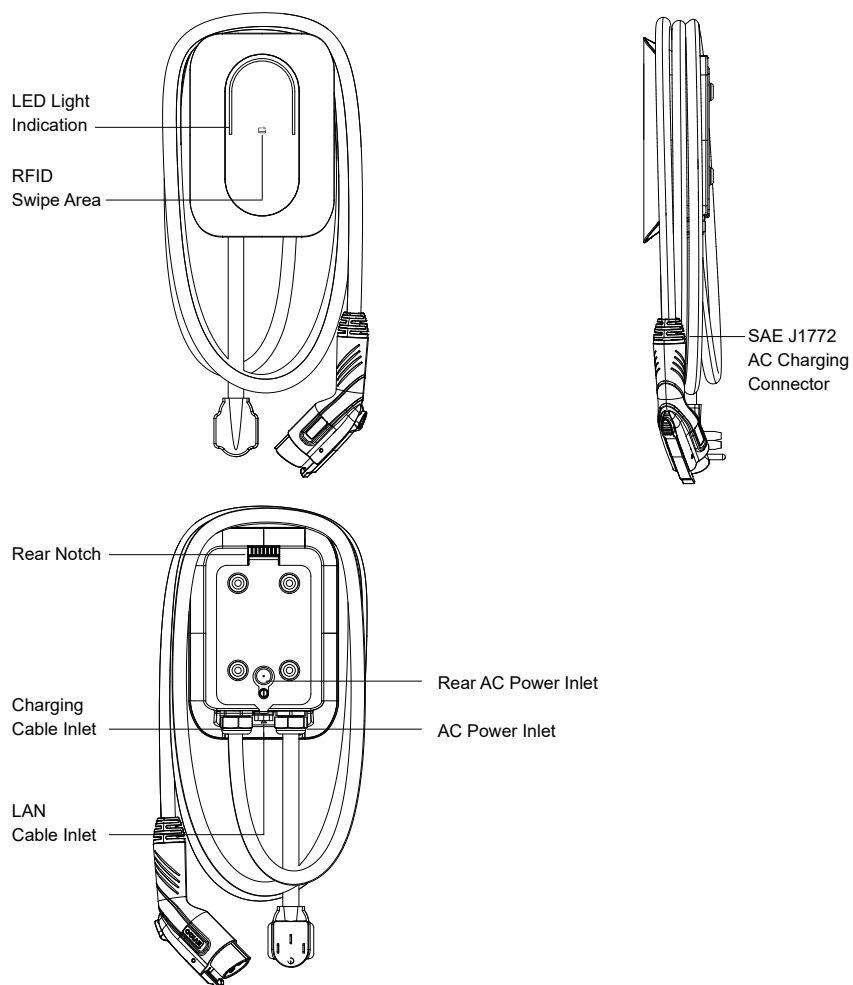
**⚠ MISE EN GARDE** : Ne placez pas d'objets lourds sur le chargeur pour éviter tout danger.

## 2. Product Introductions

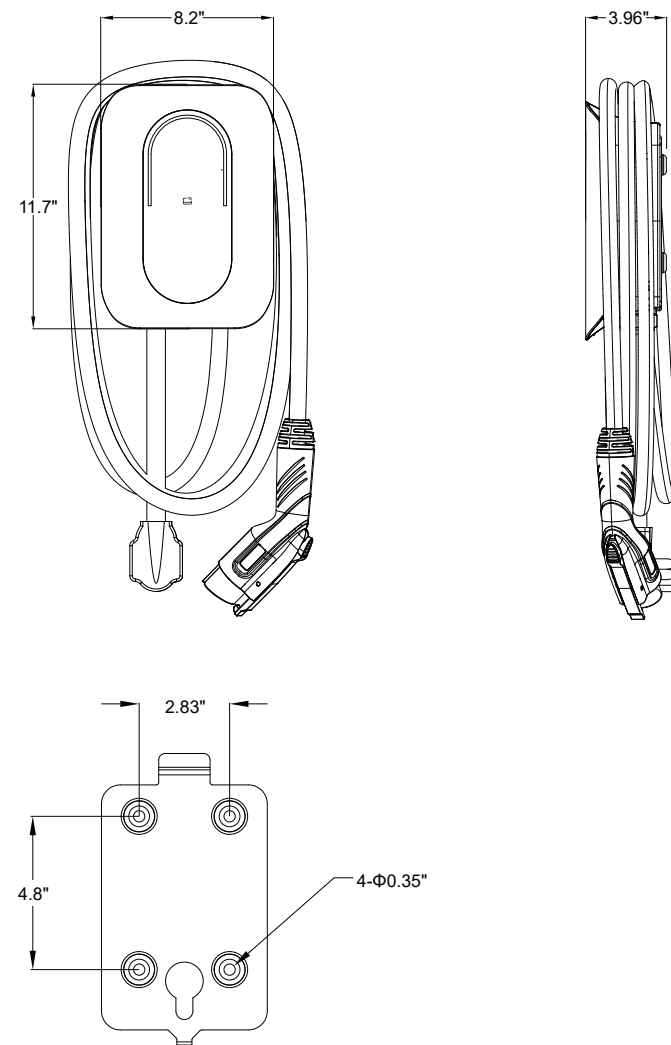


**CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

### 2.1 Basic Interface



### 2.2 Dimensions

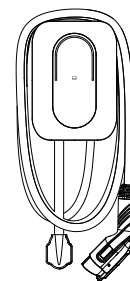


## 2.3 Specifications

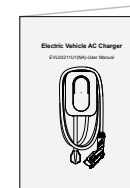
| JNT-EVL002/48AC/01C/BK/RF/WF |                                                                                                 |               |
|------------------------------|-------------------------------------------------------------------------------------------------|---------------|
| POWER                        |                                                                                                 |               |
| Input Rating                 | 208~240V AC                                                                                     |               |
| Output Current&Power         | 9.6KW （40A）                                                                                     | 11.5 kW （48A） |
| Power Wiring                 | L1 / L2 / GND                                                                                   |               |
| Input Cord                   | NEMA14-50 Plug                                                                                  | Hard-wire     |
| Mains frequency              | 50 / 60 Hz                                                                                      |               |
| Connector Type               | SAEJ1772 Type1 18ft (25ft optional)                                                             |               |
| Ground Fault Detection       | CCID 20                                                                                         |               |
| Protection                   | UVP, OVP, RCD (CCID 20), SPD, Ground Fault Protection, OCP, OTP, Control Pilot Fault Protection |               |
| USER INTERFACE               |                                                                                                 |               |
| Status Indication            | LED indication                                                                                  |               |
| User Interface               | L-Charge APP                                                                                    |               |
| Connectivity                 | Bluetooth, Wi-Fi (2.4G), Ethernet                                                               |               |
| User Authentication          | Plug&Charge、RFID Card、APP                                                                       |               |
| Card Reader                  | RFID, ISO14443A、ISO14443B, 13.56MHz                                                             |               |
| Software Update              | OTA                                                                                             |               |
| CERTIFICATION & STANDARDS    |                                                                                                 |               |
| Safety & Compliance          | UL991, UL1998, UL 2231, UL2594                                                                  |               |
| Certification                | ETL / FCC / Energy Star                                                                         |               |
| Warranty                     | 36 months                                                                                       |               |
| GENERAL                      |                                                                                                 |               |
| Color                        | White、Black（Customizable）                                                                       |               |
| Enclosure Rating             | NEMA 4（IP65）, IK08                                                                              |               |
| Operating Altitude           | < 6561ft(2000m)                                                                                 |               |
| Operating Temperature        | -22°F ~ +122°F（-30°C ~ +50°C）                                                                   |               |
| Storage Temperature          | -40°F ~ +185°F（-40°C ~ +85°C）                                                                   |               |
| Operating Humidity           | 5~95%                                                                                           |               |
| Mounting                     | Wall mount / Pedestal（optional）                                                                 |               |
| Product Dimensions           | 11.7" × 8.2" × 3.96" (297.2 × 208.3 × 100.58mm)                                                 |               |

## 3. Verify Contents

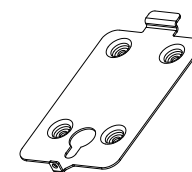
Ensure you have this installation guide and these parts:



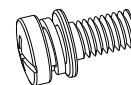
AC Charger ×1



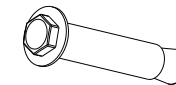
User Manual ×1



Wall-Mounted Bracket ×1



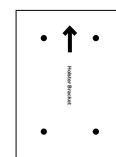
M4 Anti-Theft Round Head Screws ×1



M6 Hexagonal Expansion Screws ×4



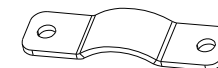
Allen Wrench ×1



Mounting Template ×1



RFID Card ×2



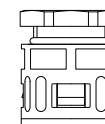
Cable Ramp ×1



ST3.5\*16 Screws ×2



M32 Conduit Fitting ×1

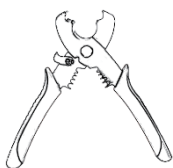


AD34.5 Conduit Fitting (Optional) ×1

## 4. Gather Tools

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

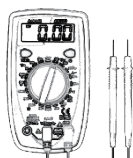
1. Wire stripper
2. Adjustable Wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill
7. Phillips screwdriver



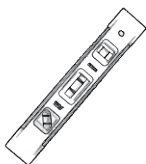
1



2



3



4



5



6



7

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

## 5. 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.

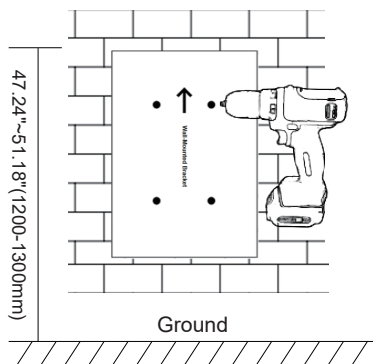
Select the appropriate mounting location with electric capacity:

- 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 3.14" x 5.11" stud or a solid wall.

## 6. Wall mounting

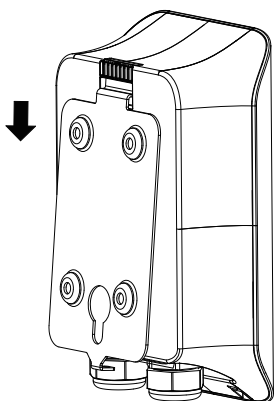
### STEP 1

Make sure the installation wall is vertical, and use the Mounting template to drill four screw holes with a diameter of 0.33"(8.5mm) and a depth of 2.17"~2.36"(55mm~60mm) at a height of 47.24"~51.18"(1200-1300mm) from the ground according to the hole positions.



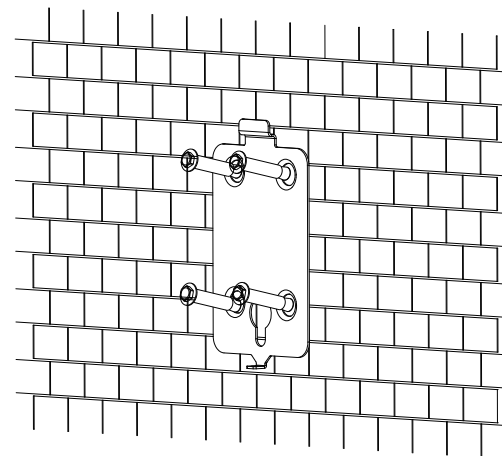
### STEP 2

Push the bracket down to remove the wall hanger.



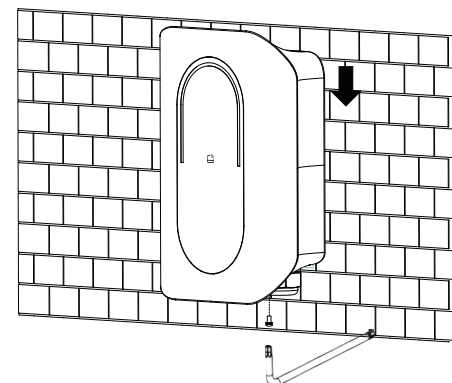
### STEP 3

Use 4 Hexagonal Expansion Screws to secure the wall-mounted bracket on the wall. Use an wrench to tighten the screw nuts on the expansion screws.



### STEP 4

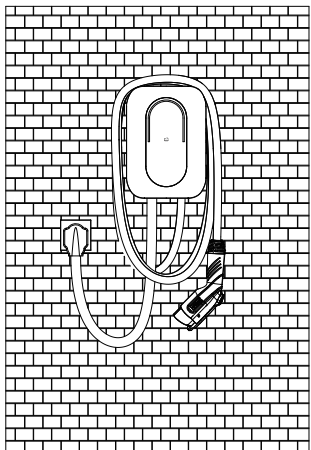
Align the rear notch of charger with the wall-mounted bracket and align the screw holes at the bottom, and secure it using M4 Anti-Theft Round Head Screws.



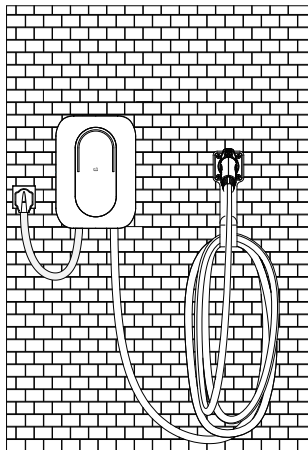
STEP 5

Overall outlook picture after installation:

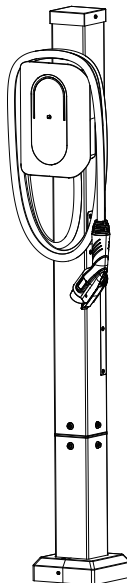
Wall-mounted cable winding



Plug holder(optional)



Pedestal(optional)



## 7. 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.

**This step is only to Hard-wire wiring and requires user-supplied AC input cables.**

For safe use of electricity, please set circuit

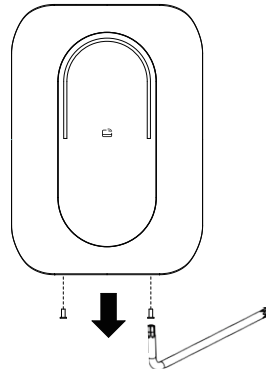
breaker protection in the input part of EV Charger.

Circuit Breaker Options table

| Output Amperage (A)         | 16A | 32A | 40A | 48A | 70A | 80A  |
|-----------------------------|-----|-----|-----|-----|-----|------|
| Circuit Breaker Options (A) | 20A | 40A | 50A | 60A | 90A | 100A |

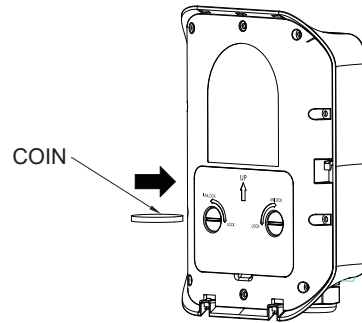
### STEP 1

Use a allen wrench to loosen the two screws located at the bottom of the charging station. press down on the front cover and slide it down, remove the front cover.



### STEP 2

Remove the cover from the charger using the appropriate tools (such as coin).

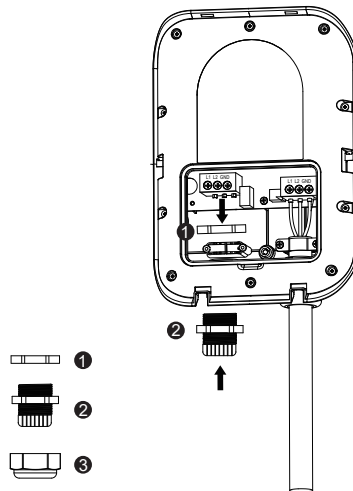


### STEP 3

Remove the waterproof plug from the charger cable inlet, Connect and Lock the M32 Conduit Fitting Part1 and Part2 (including the washer) to the Inlet as shown below.

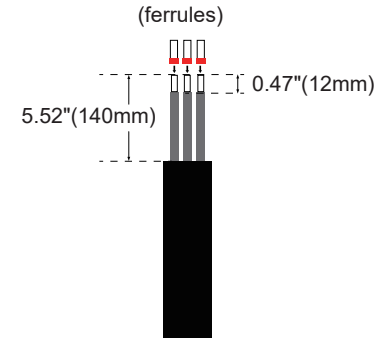
Note:

- 1.You need to bring your own AC input cable.
- 2.Select the AD34.5 or M32 Conduit Fitting based on the AC input cable type, If you use AD34.5 Conduit Fitting, perform the same steps as above.



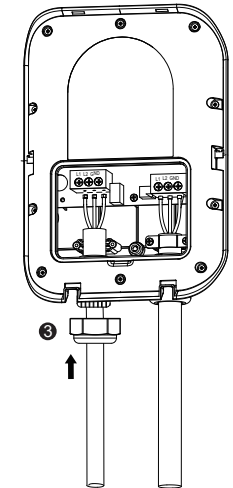
### STEP 4

Take out the AC input cable and strip the TPU cover by 5.52" (140mm), and then strip individual wires by 0.47" (12mm). use ferrules on stranded wires and press it by wire crimper.



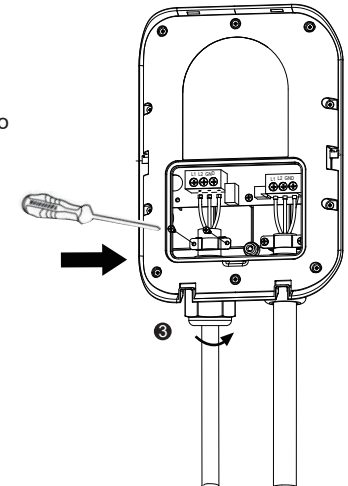
### STEP 5

First, pass the AC input cable through the M32 Conduit Fitting Part 3 (3), then continue through Part 1 and Part 2. Connect the wires (L1, L2, GND) and tighten each connector screw to 2 N.m (17.7 in.lbs).



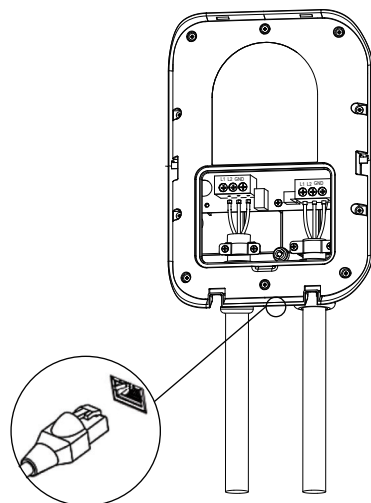
### STEP 6

Lock the M32 Conduit Fitting Part 3 (3), Press the AC input cable with cable ramp and secure it with two screws (3.5\*16).



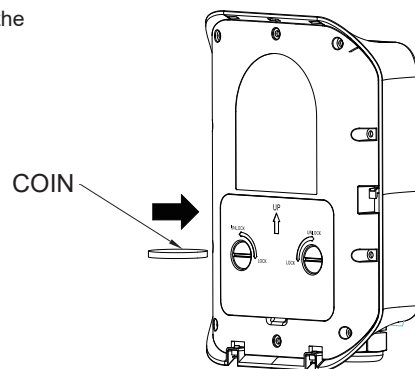
### STEP 7

If you use Ethernet networking, you can plug the Ethernet cable into the RJ45 port.



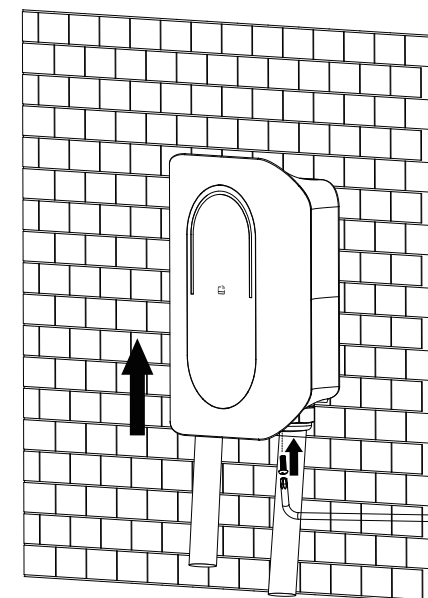
### STEP 8

Align the cover with its position on the charging station. Secure the cover in place using the appropriate tools (such as coin).



### STEP 9

Align the upper slot of the charger with the front cover, press the front cover upward, align with the bottom hole, and fix the screw.



## 8. Light Codes

### 8.1 After Start UP

| Device Status               | Light Codes                              |
|-----------------------------|------------------------------------------|
| Power On                    | Blue, green and red run clockwise        |
| Standby                     | Solid Blue                               |
| Plug The Charging Connector | Solid Green                              |
| Swipe Card                  | Green Blinking                           |
| Charging In Progress        | Green Breathing                          |
| Finished / Stopped Charging | Solid Green                              |
| Reservation Charging        | Blue, green and red blinking alternately |
| OTA                         | Blue Breathing                           |
| Device Unavailable          | Blue Blinking                            |
| Fault                       | Red                                      |

## 8.2 Error and Warning Messages

| No. | Fault Status          | Red Light                          | Remark                          |
|-----|-----------------------|------------------------------------|---------------------------------|
| 1   | Meter Fault           | 1 flash followed by 3 sec pause    | Auto Recover                    |
| 2   | CP Fault              | 2 flashes followed by 3 sec pause  | Unplug the Connector to Recover |
| 3   | UVP                   | 3 flashes followed by 3 sec pause  | Auto Recover                    |
| 4   | OVP                   | 4 flashes followed by 3 sec pause  | Auto Recover                    |
| 5   | OTP                   | 5 flashes followed by 3 sec pause  | Auto Recover                    |
| 6   | OCP                   | 6 flashes followed by 3 sec pause  | Unplug the Connector to Recover |
| 7   | Ground Fault          | 7 flashes followed by 3 sec pause  | Unplug the Connector to Recover |
| 8   | Relay Fault           | 8 flashes followed by 3 sec pause  | Unplug the Connector to Recover |
| 9   | RCD Abnormal          | 9 flashes followed by 3 sec pause  | Unplug the Connector to Recover |
| 10  | RCD Self-Test Fault   | 10 flashes followed by 3 sec pause | Reboot to Recover               |
| 11  | Relay Self-Test Fault | 11 flashes followed by 3 sec pause | Reboot to Recover               |

## 9. 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 his own expense.

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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.

## 10. Warranty and Maintenance

- The warranty period for this charger is three years.
- During the warranty period for any malfunction under normal use according to the User Manual (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:
  1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
  2. Those who are unable to provide valid proof of purchase.
  3. Those who exceed the manufacturer's specified warranty period.
  4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
  5. Damage or malfunction caused by external object entering.
  6. Unauthorized repair, disassembly or modification.
  7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
  8. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment.
  9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable 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.

