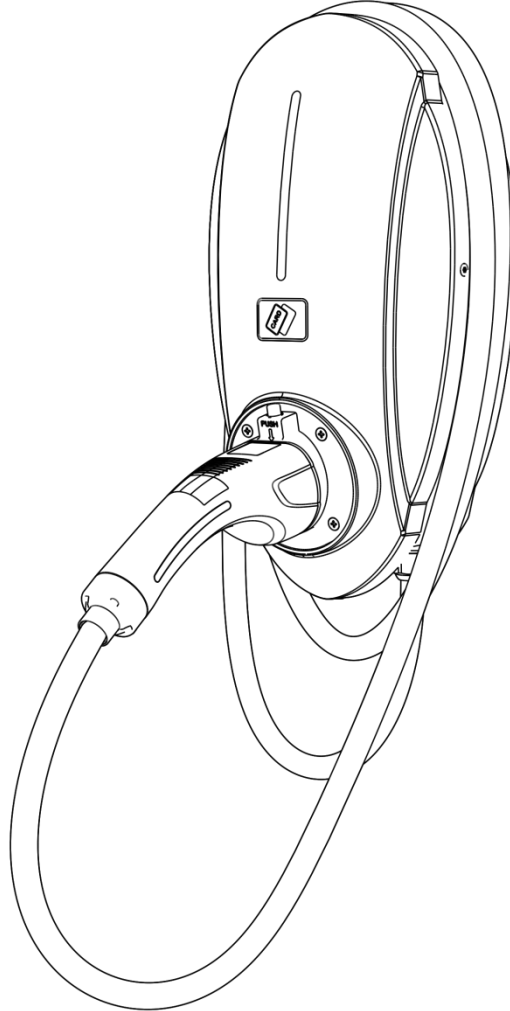
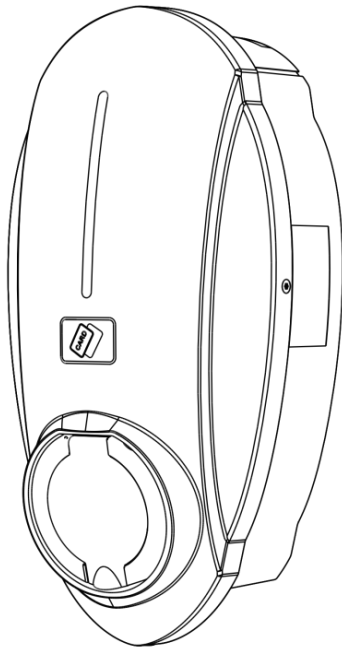


# Mira AC charger

## Installation Manual



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# 1. Liability Statement and Disclaimer

## 1.1 Responsibility statement

- Operate the charging station on the premise that the protective measures are fully implemented, and ensure that the protective facilities are correctly installed and regularly maintained;
- Prepare emergency plans to instruct people how to deal with emergencies;
- Prepare the installation site of the charger according to the requirements described in this manual;
- Ensure that the charger has enough space for passing and maintenance;
- It should be fully understood that changes and alterations without Sinexcel's permission may affect the user's operation authorization and may also affect the quality assurance;

## 1.2 Disclaimer

If the product equipment needs to be used normally within a certain range of conditions, Sinexcel will not be liable for any accident or damage caused by one of the following circumstances:

- Products and accessories not identified by our company;
- Products or parts have exceeded our warranty period;
- Failures and damages caused by not using according to the instructions or not using according to the instructions in the environment (such as too high and too low temperature, too wet or dry, too high altitude, unstable voltage or current, etc.);
- Failure or damage caused by disassembly, repair, modification of products without the consent of our company, which is not installed, repaired, changed or disassembled by our after-sales service personnel;
- Normal wear, tear, fracture and impregnation;
- Failure or damage caused by accident or human factors (operation error, scratch, handling, bump, access to inappropriate voltage, etc.), transportation damage;
- Failure or damage caused by force majeure (such as earthquake, lightning, fire, abnormal voltage, etc.) such as natural disasters;

### Warning:



- 
- Please read the user manual carefully before use, and strictly follow the steps.
  - The installation environment of charging equipment should be far away from fire and other dangerous sources.
  - Without the permission of the manufacturer, it is strictly forbidden for the user to disassemble the product and other improper operations. The undesirable consequences caused by improper operation shall be borne by the user.
-

## 2. Installation preparation

### 2.1 Safety precautions

Please read all instructions carefully before installing. Pay special attention to the following matters:

- Since the installation process of this charger involves power construction, professional technicians shall install it according to the instructions to ensure safety.
- When installing, please wear protective gloves to prevent the metal parts of the charger from hurting your hands.
- The charger is a front open cover, with the connector and incoming line at the bottom. To ensure safe operation and convenient installation, the height from the lower edge of the wall-mounted charger to the ground shall not be less than 1200mm.
- The AC connection of the charger shall conform to the applicable national specifications.
- In order to ensure the service life and stable operation of the charging equipment, the equipment installation environment should be as clean, constant temperature and humidity as possible, and should not be used in volatile gas or flammable environment.
- The power line used must be led out from the distribution box (with disconnect switches and circuit breakers), and each charger shall be equipped with an independent circuit breaker.
- Observe local regulations and instructions in this manual. If there is a conflict between the local regulations and the instructions in this manual, the local regulations shall prevail.

### 2.2 Unpacking inspection

The charger is attached with a packing list when leaving the factory. After unpacking, refer to the packing list to check whether all components are complete. If there is any defect, please contact our company in time. See Chapter VI for contact information.

#### 1) Wall-mounted

| Serial No | name                           | Size/Material     | quantity |
|-----------|--------------------------------|-------------------|----------|
| 1         | Finished host                  | Charger body (PC) | 1        |
| 2         | Wall-mounted directional paper | L425*W300mm       | 1        |
| 3         | Charging card                  | Charging card     | 2        |
| 4         | cable ties                     | Bagged            | 1        |

|    |   |                                     |   |
|----|---|-------------------------------------|---|
| 5  | Installation and Operation Manual                   | Neutral User Manual                 | 1 |
| 6  | certificate   | certificate                         | 1 |
| 7  | Anti-theft wrench                                   | Stainless steel T20                 | 1 |
| 8  | Expansion pipe                                      | ∅ 6*30mm (PE)                       | 4 |
| 9  | Cross recessed pan head tapping screw (GB845-85-SL) | Type C stainless steel ST4.2 * 30mm | 4 |
| 10 | Electrical drawings of AC pile system               | Home Edition                        | 1 |

2) Floor-mounted

| Serial No | name   | Size/Material                             | quantity |
|-----------|--|---|----------|
| 1         | Column body  | L300*W175*H1431.5mm                       | 1        |
| 2         | GB818-2000_ Cross recessed pan head screw M4 * 12                          | Stainless steel M4 * 12                   | 2        |
| 3         | Expansion anchor bolt (GBT 22795-2008)                                     | Stainless steel M8x80                     | 4        |
| 4         | Large flat washer (GB-96.1-2002)   | Stainless steel M8 large washer           | 4        |
| 5         | Installation and Operation Manual  | Neutral User Manual                       | 1        |
| 6         | GB9074_ 4-88_ Cross recessed spring plain washer combination screw M4 * 12 | Stainless steel combination screw M4 * 12 | 1        |

## 2.3 Installation tools

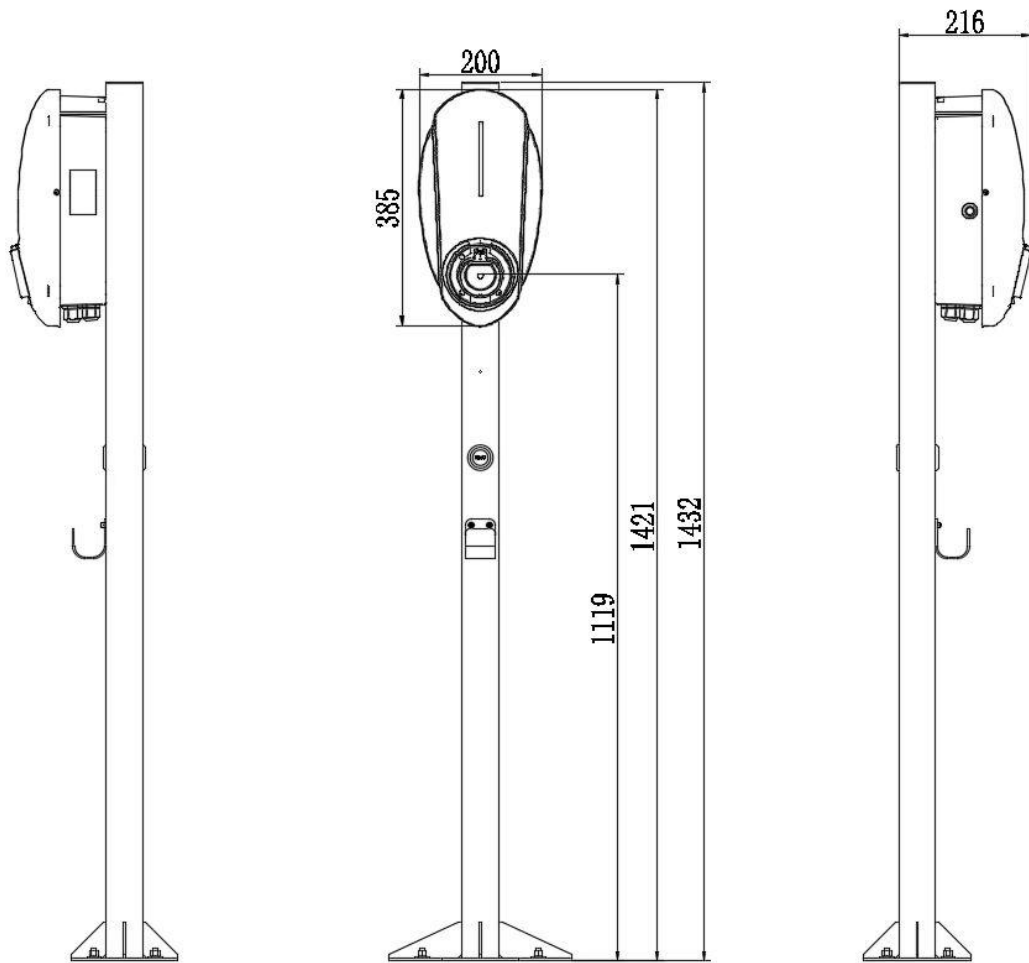
| Serial No | name  |
|-----------|---|
| 1         | Electric percussion drill and percussion drill bit ( Φ 6, Φ 12) |
| 2         | PVC insulating tape   |
| 3         | Terminal crimping pliers  |
| 4         | Cross screwdriver   |
| 5         | Cable stripper  |
| 6         | Electrician gloves  |
| 7         | Adjustable wrench   |
| 8         | M8 hexagon wrench   |
| 9         | Tape measure (5m)   |



## 2.4 Cable and superior switch specifications (recommended values)

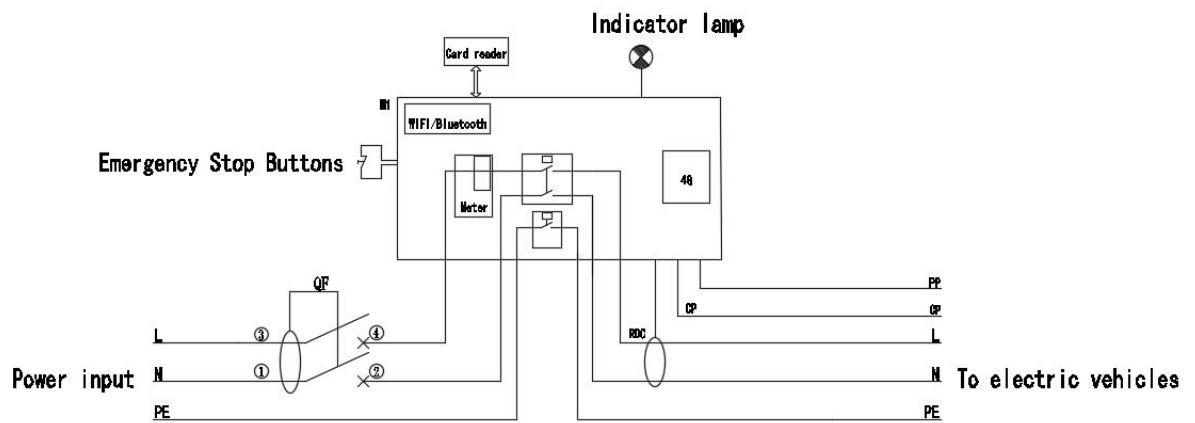
| Power (kW) | Maximum output current (A) | Cable specification (recommended value) | Superior distribution switch capacity | Cable terminal   |               |
|------------|----------------------------|---|---------------------------------------|------------------|---------------|
| 3.5kW      | 16A                        | 3*2.5mm <sup>2</sup>                    | 25A/2P                                | L1/ N<br>SC2.5-5 | PE<br>SC2.5-6 |
| 7kW        | 32A                        | 3*6mm <sup>2</sup>                      | 50A/2P                                | L1/ N<br>SC6-5   | PE<br>SC6-6   |

## 2.5 Column (optional)

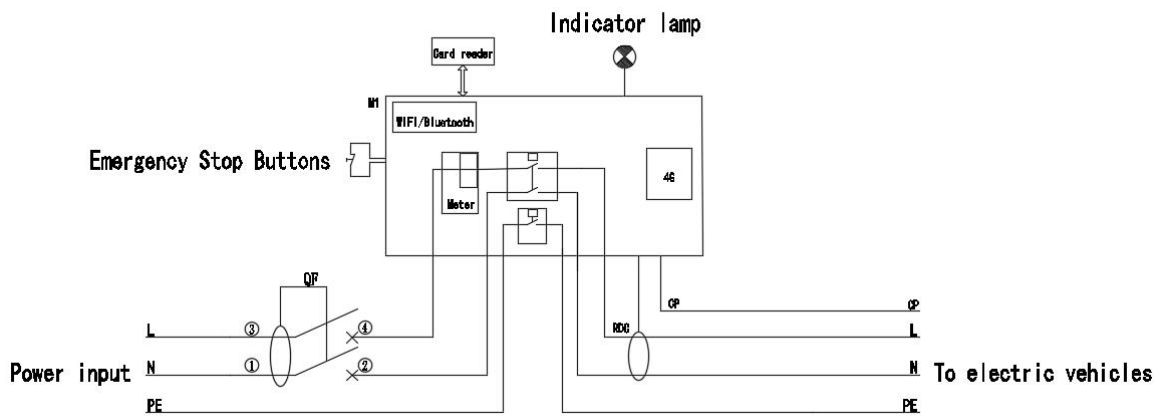


Note: Socket and cable column dimensions are common (unit: mm)

## 2.6 Block Diagram of Product Principle



Socket electrical schematic diagram



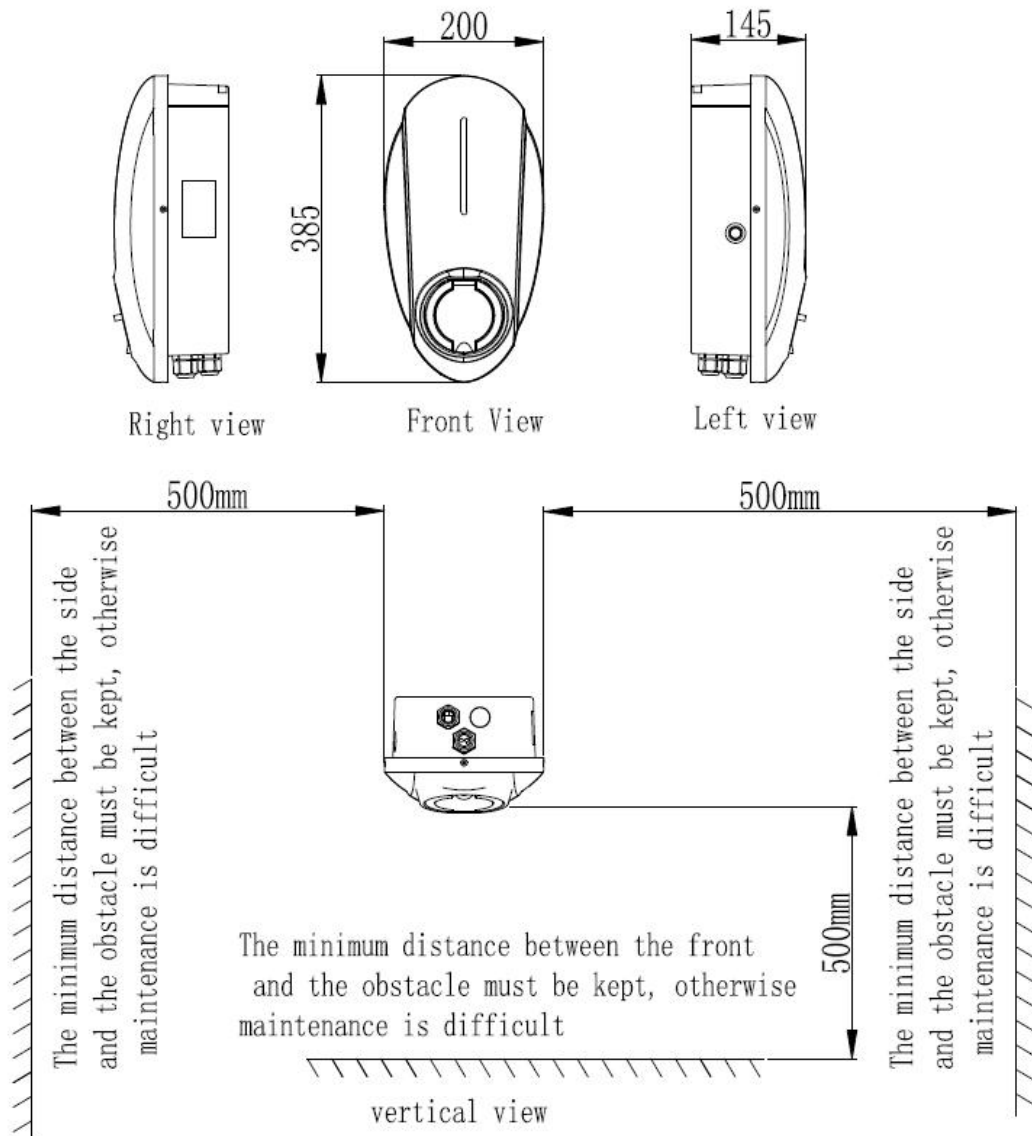
Cable electrical schematic diagram



### 3. Installation steps

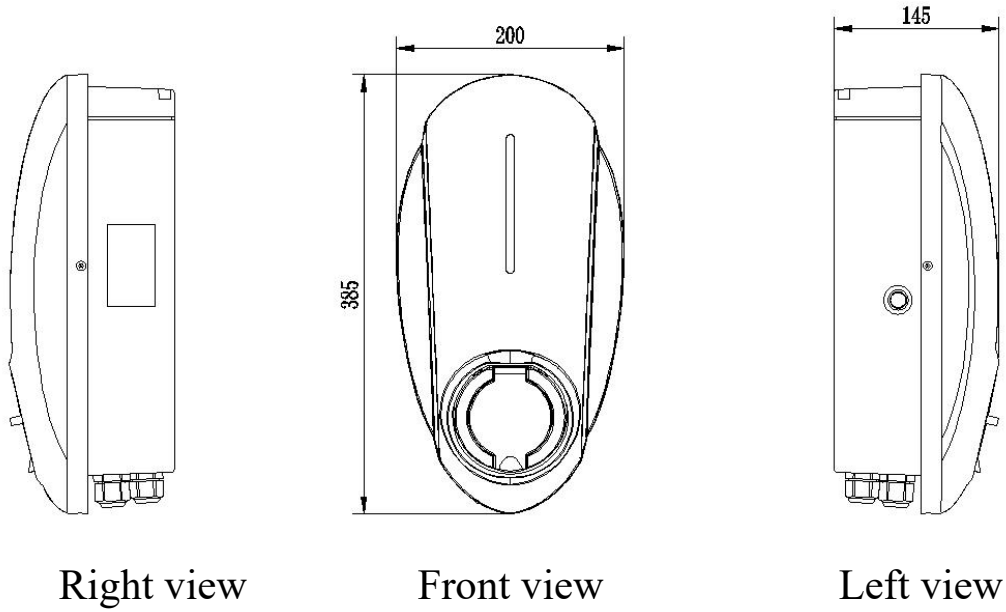
#### 3.1 Minimum distance dimension

During product installation, pay attention to the minimum distance of obstacles, as shown in the figure below:

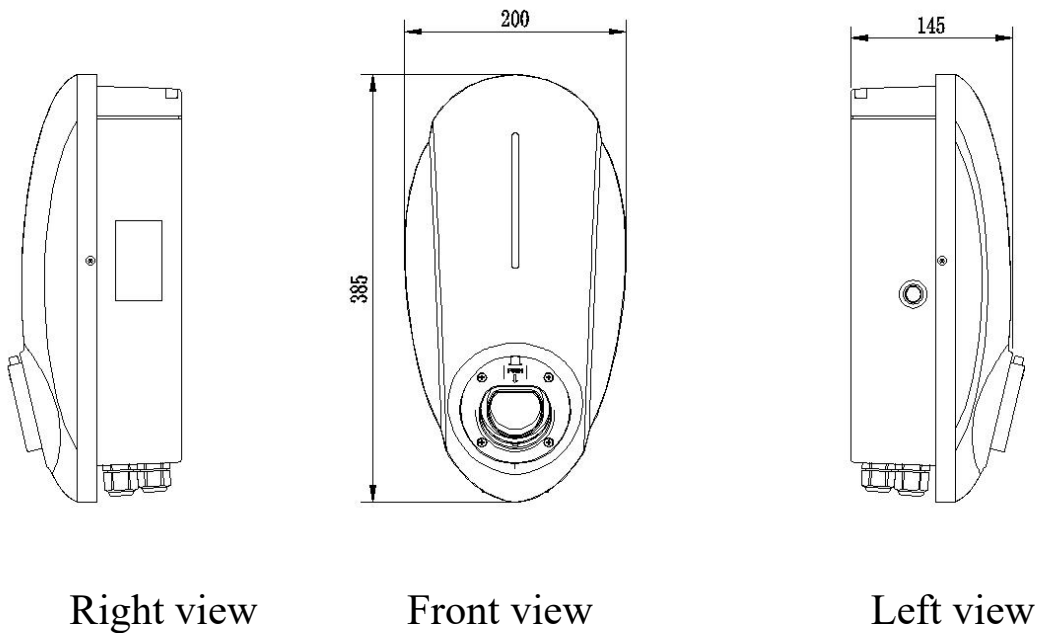


### 3.2 Product dimensions

#### 3.2.1 Wall-mounted

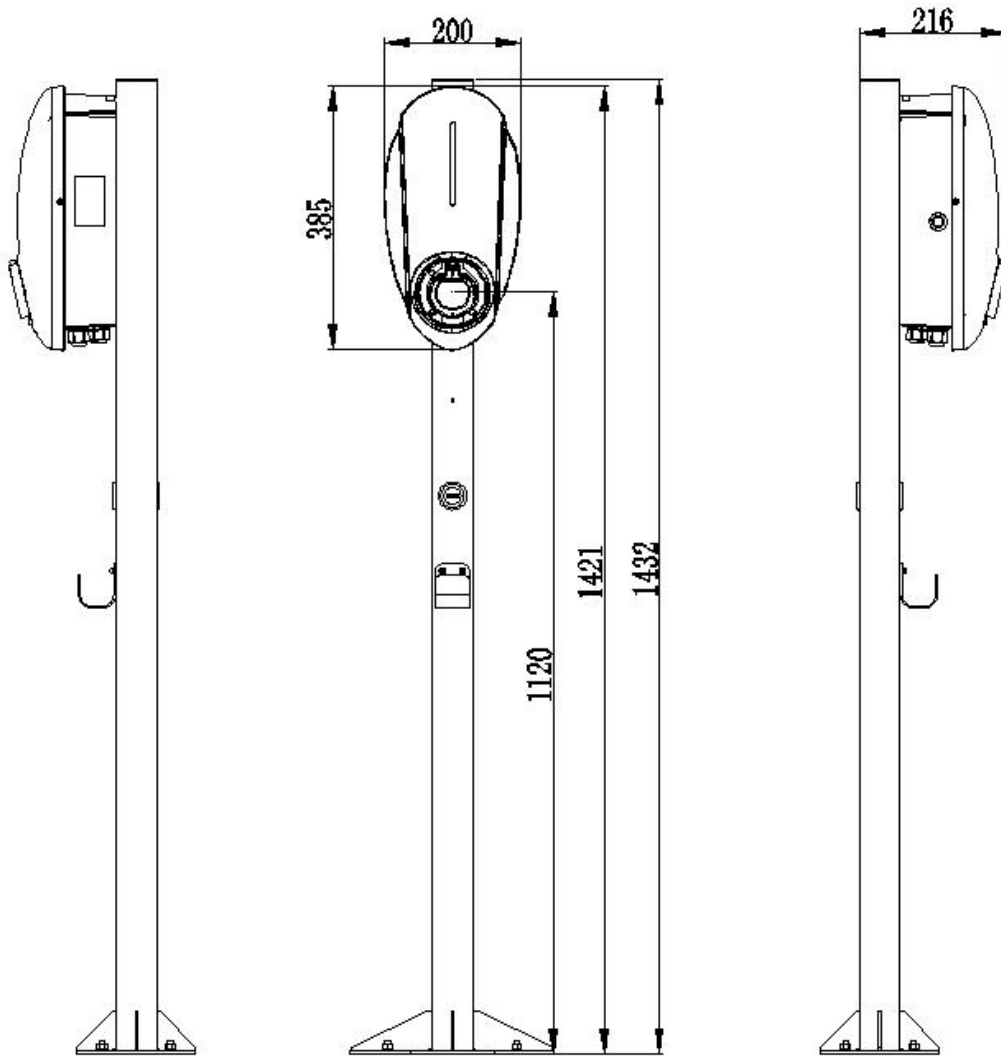


Connector base (unit: mm)



Cable (unit: mm)

### 3.2.2 Floor-mounted



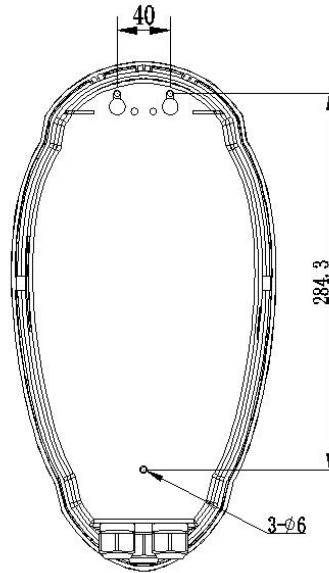
Right view

Front view

Left view

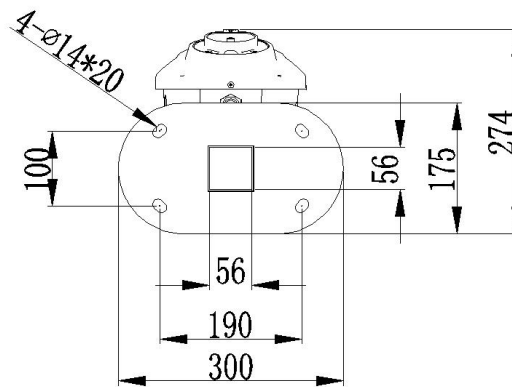
### 3.3 Product installation dimensions

#### 3.3.1 Wall-mounted installation dimensions



(Unit: mm)

#### 3.3.2 Hole size of column base



(Unit: mm)

## 4. Product installation steps

### 4.1 Installation steps of wall-mounted AC charger

Step 1: According to the hole location map of the wall hanging installation orientation paper randomly distributed, the diameter of the drill bit for drilling (3pcs) on the wall  $\Phi$  6mm, drilling depth 30mm, and then pre-bury 3pcs  $\Phi$ 6\*30mm expansion pipes, the location of wall hanging holes is shown in Fig. 4.1-1.

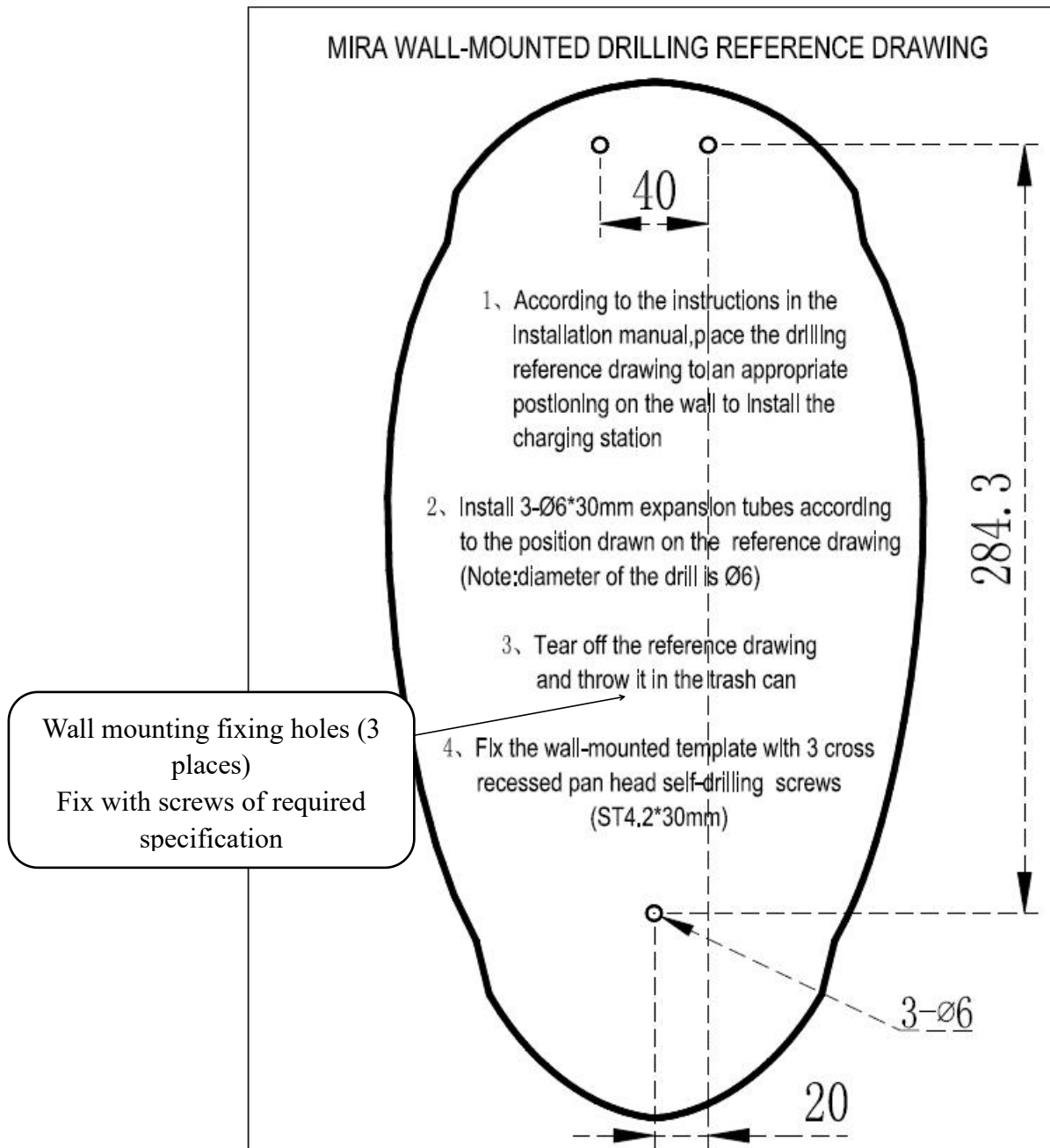


Figure 4.1-1 Wall-mounted hole location (unit: mm)

Step 2: Fix the wall with two stainless steel self-tapping screws (model: cross recessed C-type ST4.2 \* 30). The exposed screw threads protrude about 7mm (including the screw head), as shown in Fig. 4.1-2.

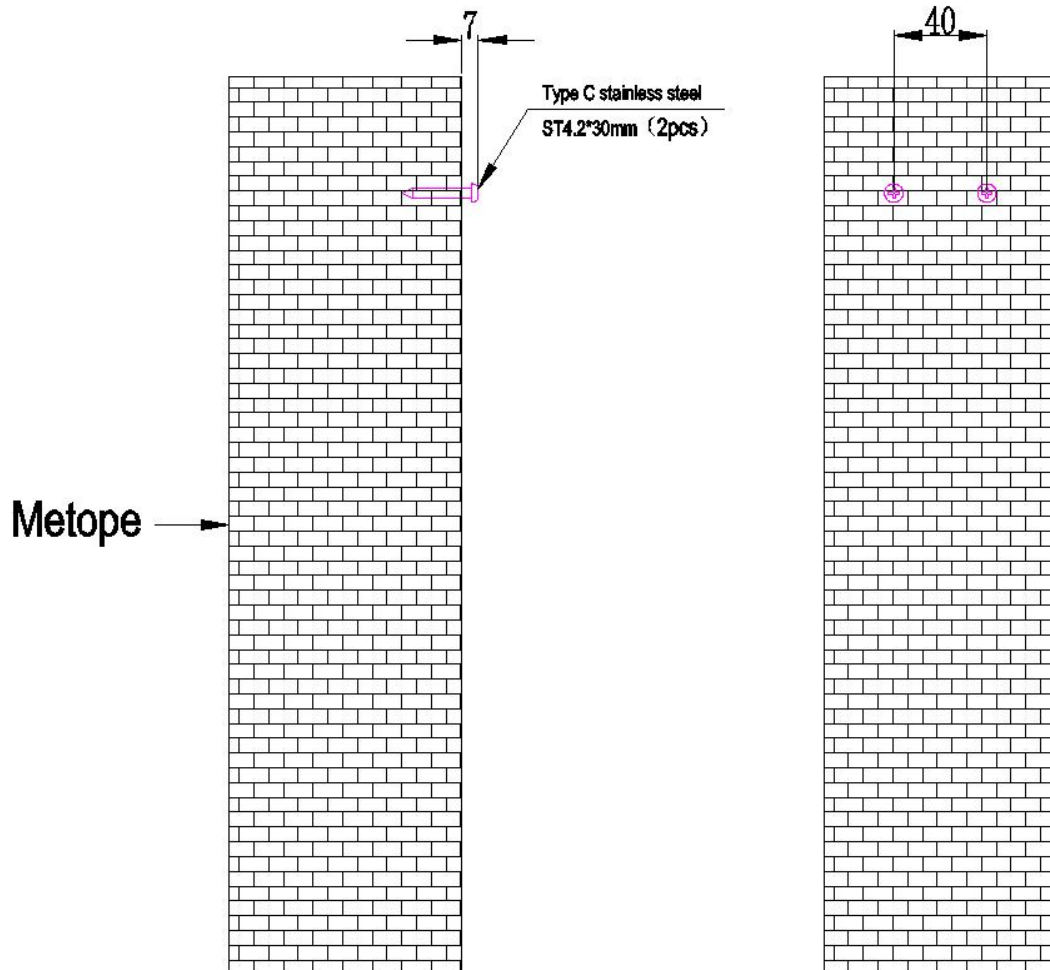


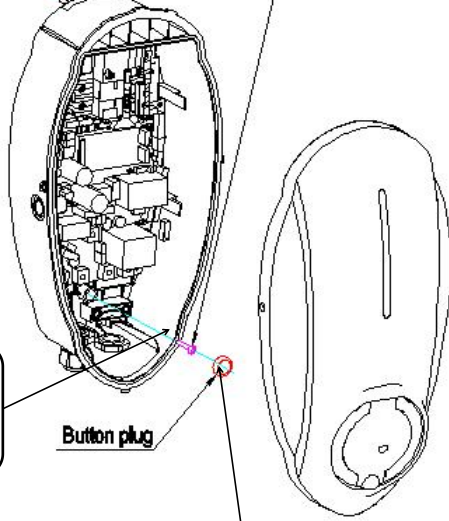
Fig. 4.1-2 Fixing Diagram of Cross Recessed C-type ST4.2 \* 30

### Self tapping Screw

Step 3: Use the two holes on the back of the box to hang the box on the cross recessed C-type ST4.2 \* 30 screws, open the cover and remove the "button plug" inside the box bottom, and then use the cross recessed C-type ST4.2 \* 30 self tapping screws (1pcs) to fix it. Be sure to install the "button plug" back to its original position, otherwise water will enter the box, as shown in Figure 4.1-3.

**Metope**

Type C stainless steel ST4.2\*30mm (3pcs)



Step 2: Fixed with type C stainless steel ST4.2 \* 30mm (1 pcs)

Step 1: Remove the button plug

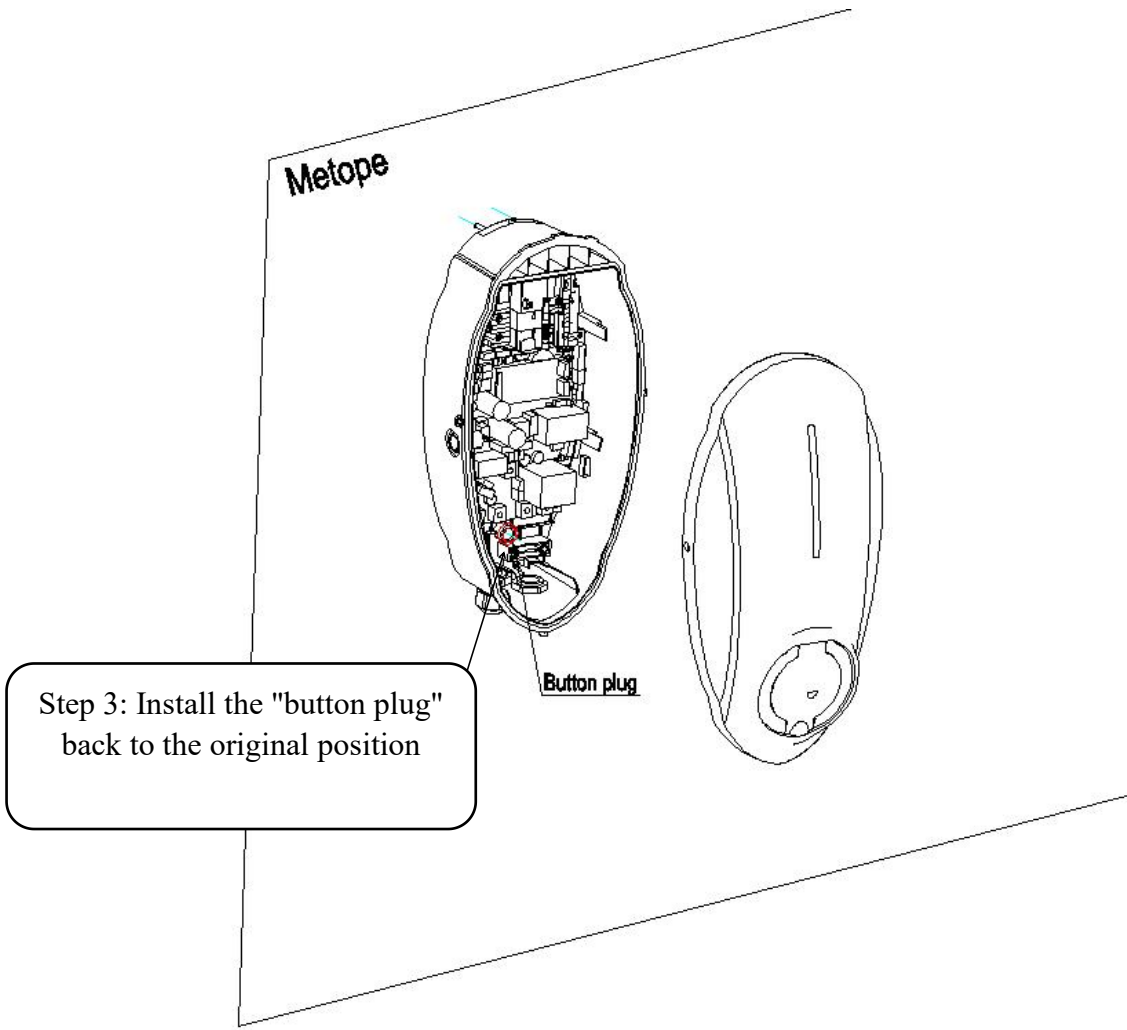


Figure 4.1-3 Wall-mounted Box Installation Drawing



## 4.2 Column installation steps

Step 1: Determine the installation position according to the base hole location of the column, and embed and lay the cable. The length of the cable exposed to the ground shall not be less than 1500 mm. The base hole location is shown in Figure 4.2-1.

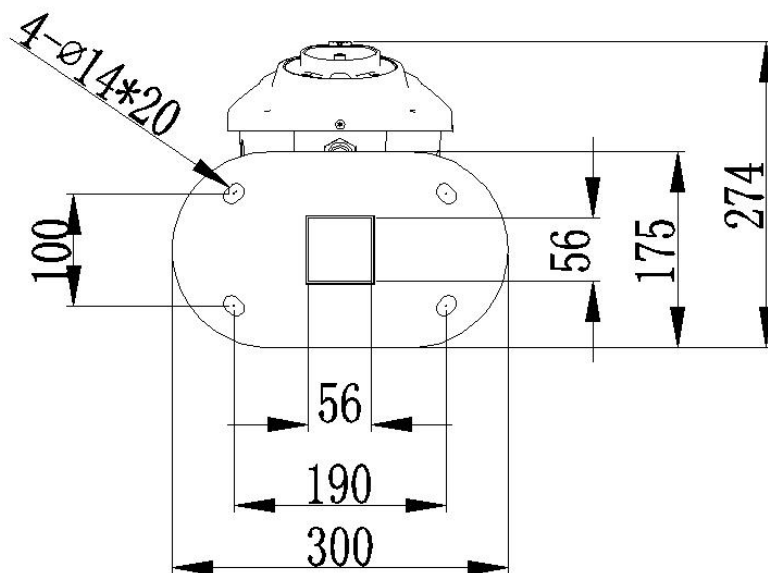


Figure 4.2-1 Hole Location of Column Base (Unit: mm)

Step 2: Use electric drill to drill four holes on the foundation, and embed four GB/T 22795-2008 reinforced expansion anchor bolts (TGQ) M8 \* 80, as shown in Figure 4.2-2.

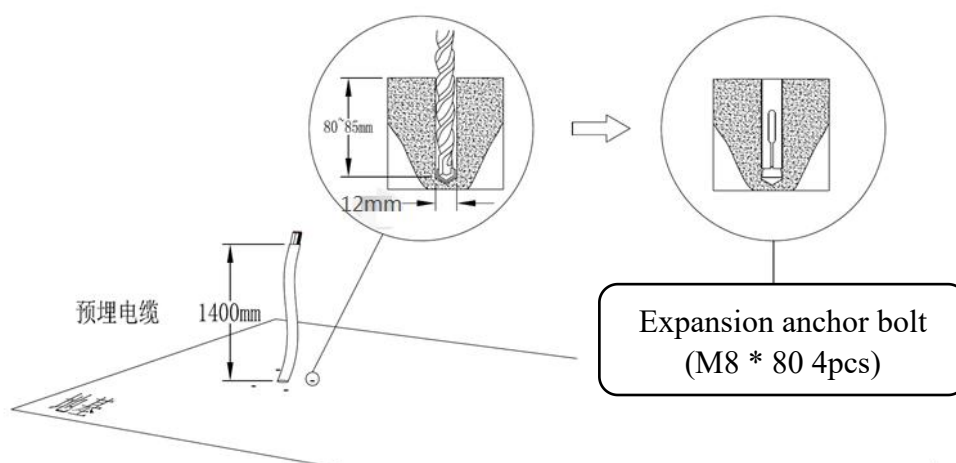


Fig. 4.2-2 Embedded Expansion Anchor Bolt

**The drilling diameter is described as follows:**

M6 series drilling is 10mm

M8 series drilling is 12mm

M10 series drilling is 14mm

M12 series drilling is 16mm

.....

**By analogy, please refer to the product parameter data for details**

Step 3: Use a rope or iron wire to pass through the protective coil of the column first, and then tie the rope or iron wire to the end of the embedded cable after passing through the bottom of the column. Pull the rope or iron wire to pass the embedded cable through the protective coil of the column from the bottom of the column, and then fix the column on the foundation through the expansion anchor bolt. As shown in Fig. 4.2-3.

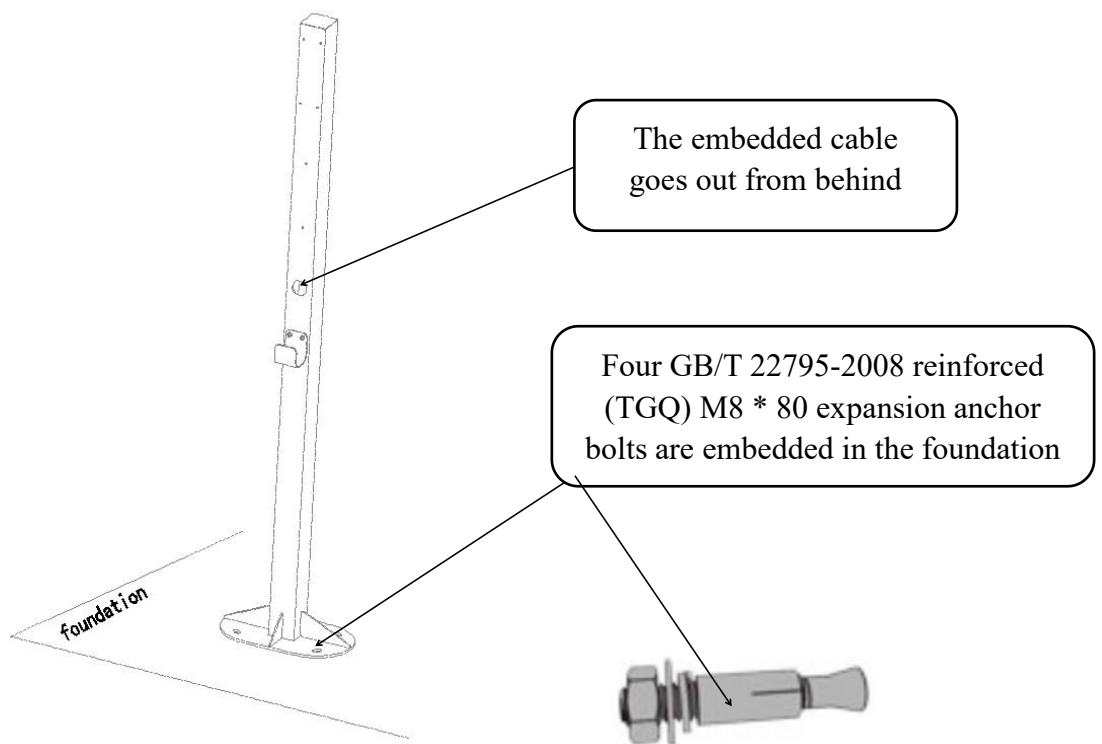


Figure 4.2-3 Column Installation Diagram

Step 4: The column is fixed on the column with two stainless steel screws (model:

GB818-2000 Cross recessed pan head  
M4 \* 12 (2...)

GB818-2000 cross recessed pan head screw M4 \* 12), and the exposed screw thread protrudes about 7mm (including the screw head), as shown in Fig. 4.2-4.

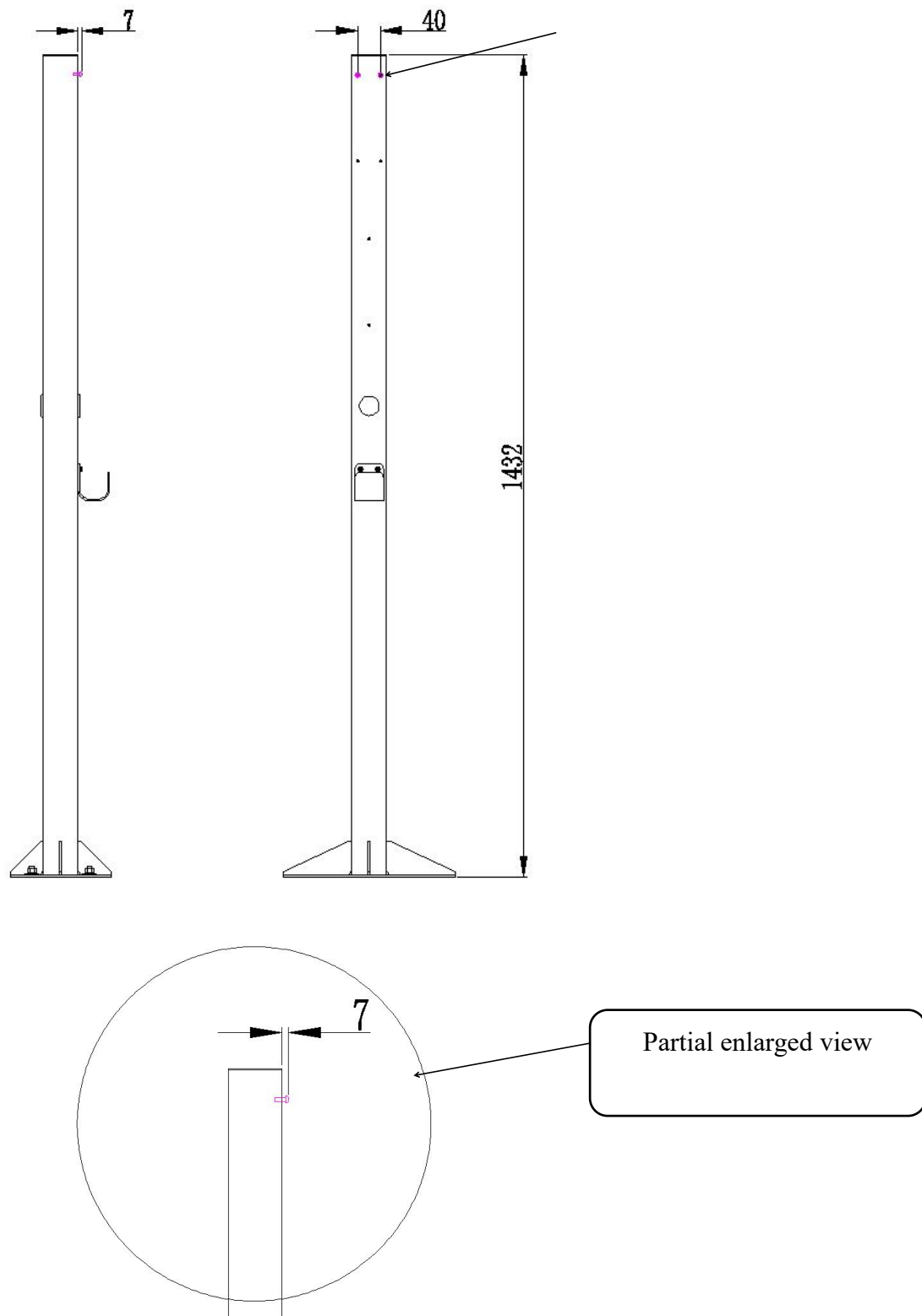
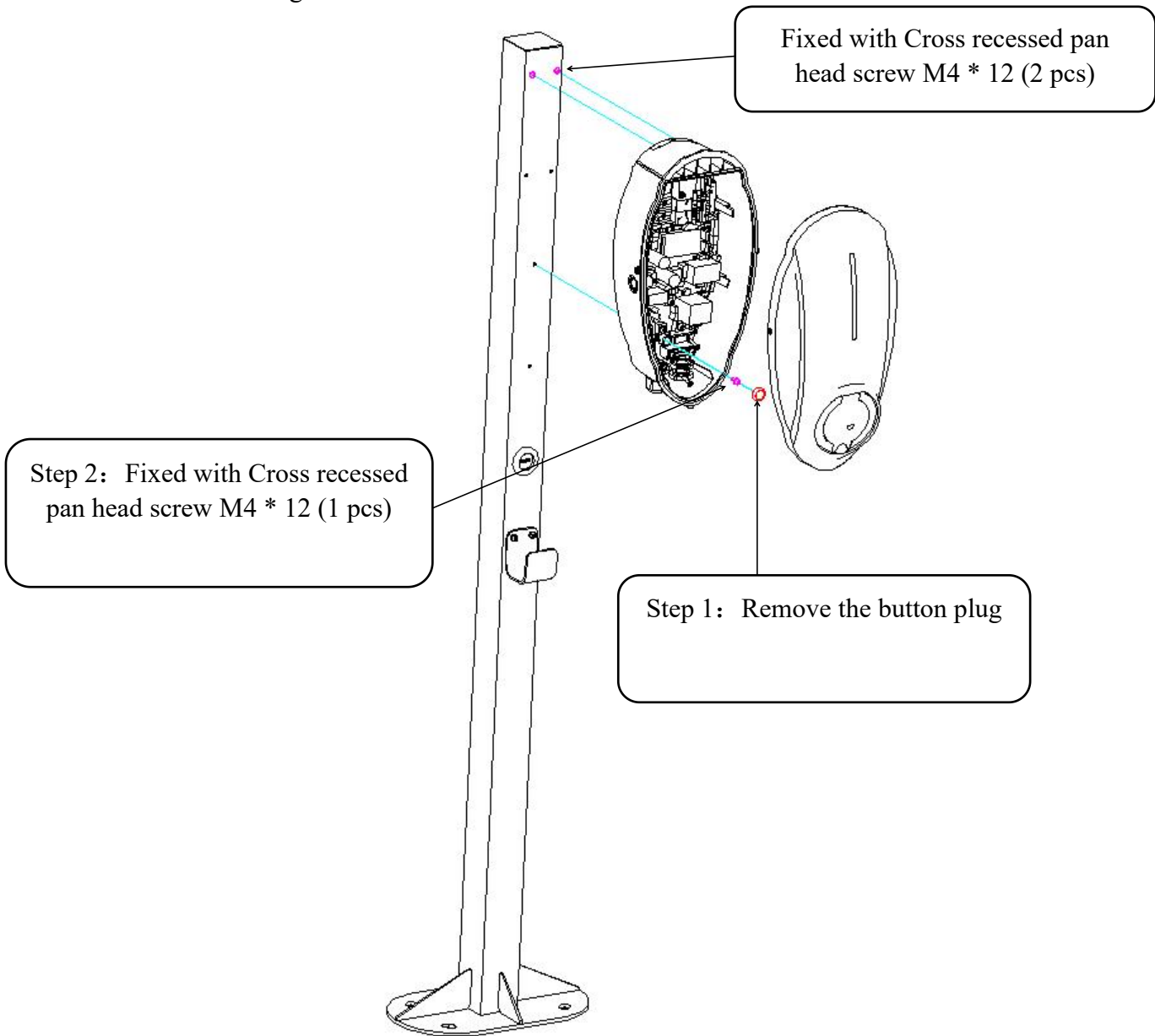


Fig. 4.2-4 Installation Drawing of Column Cross Recessed Pan Head Screw M4 \* 12  
Step 5: Use the two holes on the back of the box to hang the box on the

GB818-2000 cross recessed pan head M4 \* 12 screws, then open the cover and remove the internal "button plug" at the bottom of the box, then use GB9074\_4-88 cross slotted flat pad combination screws M4\*12 (1pcs) to fix, and be sure to install the "button plug" back to the original position, otherwise water will enter the box, as shown in Fig. 4.2-5.



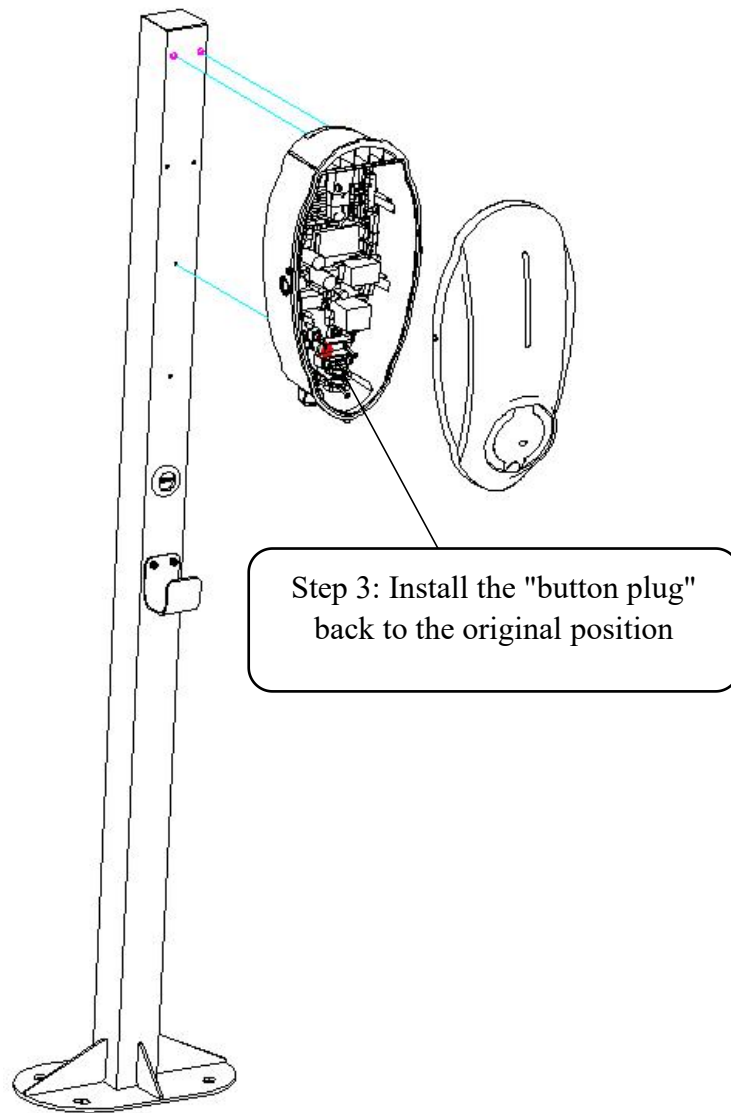


Figure 4.2-5 Installation Diagram of Column box

### 4.3 Socket and Cable Input Inlet Installation Steps

1) The steps for removing the cover plate of the socket and cable are the same, as shown in Fig. 4.3-1. Remove the screws A, B and C of the charger cover plate, and then open the cabinet cover plate.

**Note: Mira's AC access needs equipment that complies with applicable national specifications.**

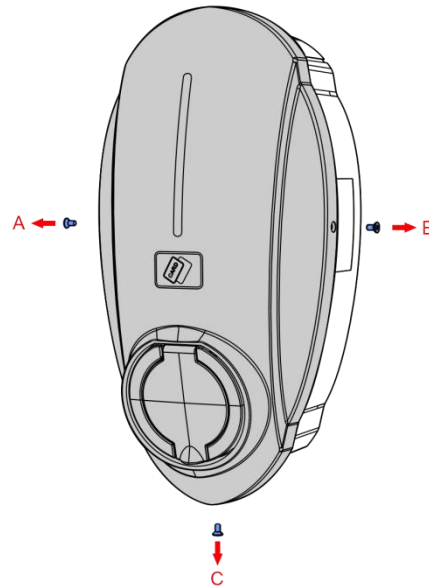


Figure 4.3-1

2) The socket and cable are installed in the same way, as shown in Fig. 4.3-2 and Fig. 4.3-3.

Step 1: As shown in Fig. 4.3-2, turn anticlockwise to unscrew the sealing connector and thread the cable into the connector cover.

Step 2: As shown in Fig. 4.3-3, put the sealing ring in the connector onto the cable, and then plug the cable into the cabinet through the sealing connector on the bottom shell of the charger cabinet.

Step 3: Loosen the screws of D, E and F terminals, connect D to L cable of input incoming line, connect E to N cable of input incoming line, and connect F to PE.

Step 4: Plug the cable with sealing ring into the connector, pay special attention to keep the sealing ring level with the edge of the connector, and then turn the connector cover clockwise and tighten it.

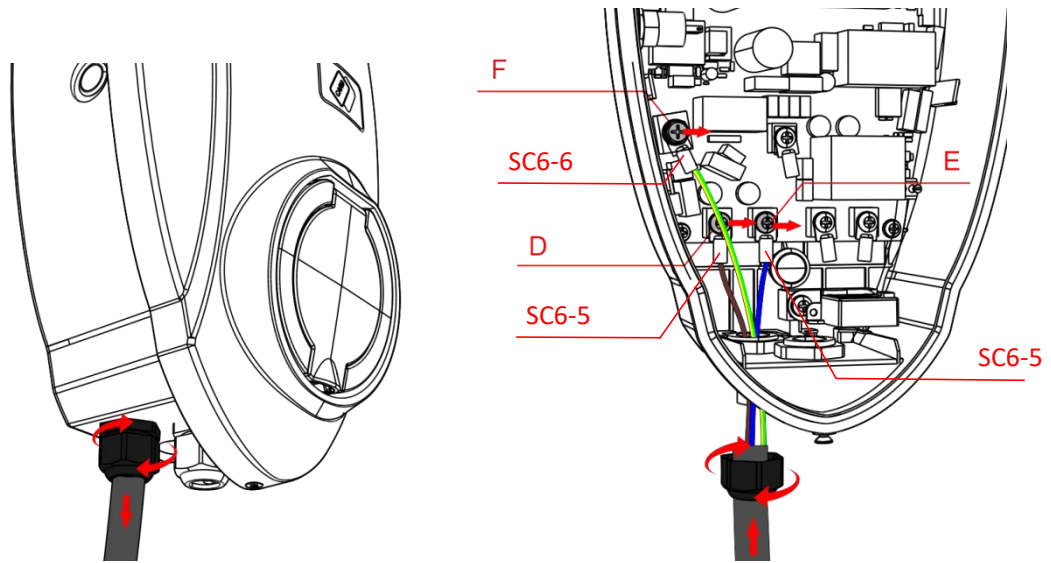


Figure 4.3-2 Figure 4.3-3

3) Socket and Cable cover installation steps are the same, which is the reverse process of the first step.

## **5. Quality assurance**

### **5.1 Shelf life**

The warranty period of this product is subject to the contract.

During the warranty period of our products, the customer should take the initiative to show our service personnel the invoice, date and SN number of the products purchased. At the same time, the nameplate identification on the product shall be clear and visible, otherwise, it has the right not to repair.

### **5.2 Warranty conditions**

When the product leaves the factory, the user has completely complied with the storage, installation and use rules specified in this instruction, resulting in quality problems; After the product leaves the factory, due to transportation reasons, the user found that the product or supporting parts were damaged during the unpacking inspection, and the relevant personnel confirmed or retained the damaged parts and pictures.

We will repair or replace the products of the same type free of charge if they fail during the warranty period; The replaced faulty machine shall be the property of our company.



## **6. Contact us**

Our company provides customers with all-round technical support. If you have any questions about our products and technical problems, please contact us in time.

Shenzhen Sinexcel Electric Co., Ltd

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Company website: <https://www.sinexcel.com>

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Email: [sales@sinexcel.com](mailto:sales@sinexcel.com)