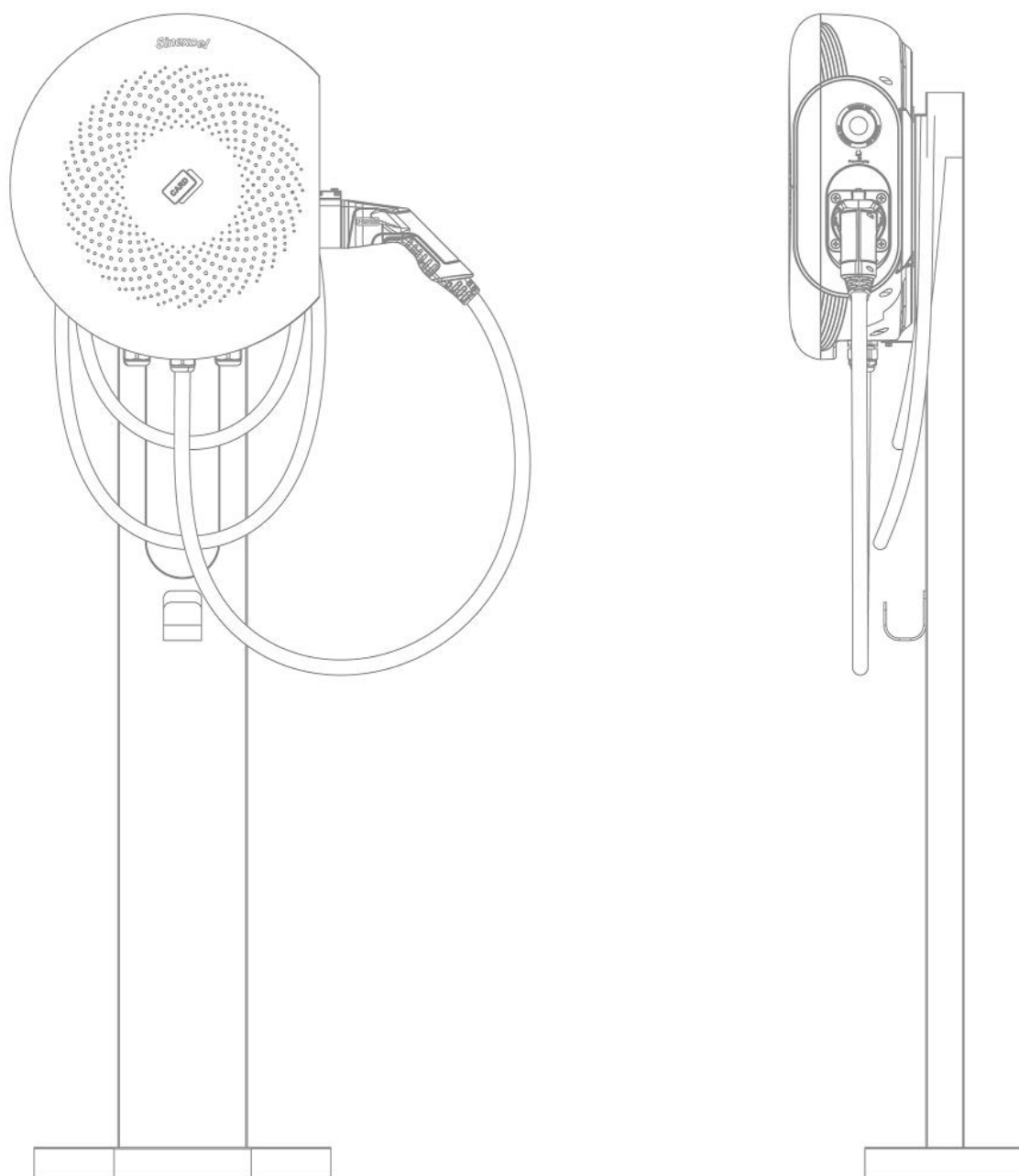


Sinexcel



Installation manual

INTERSTELLAR AC CHARGER

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1. About the document

1.1 Function of this document

The document is applicable for the EVSE Interstellar (SEA400/32Y-E-P or SEA230/32Y-E-P) to provide information about installation and maintenance. The contents of the manual will be continuously updated and please refer to the actual product purchased.

1.2 Target group

The document is intended for qualified installation engineers. Installation procedure and commissioning can be found in this document, if have any problems during installation please contact the manufacturer. (Refer to section 6)

1.3 How to use this document

Please read this document carefully and make sure that you know all the instructions in this manual. Sinexcel will not be responsible for accidents or damage caused by installation and operation that not obey the instruction. (Refer to section 2)

2. Liability Statement and Disclaimer

2.1 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;

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.

2.2 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;












3. Installation preparation

3.1 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.

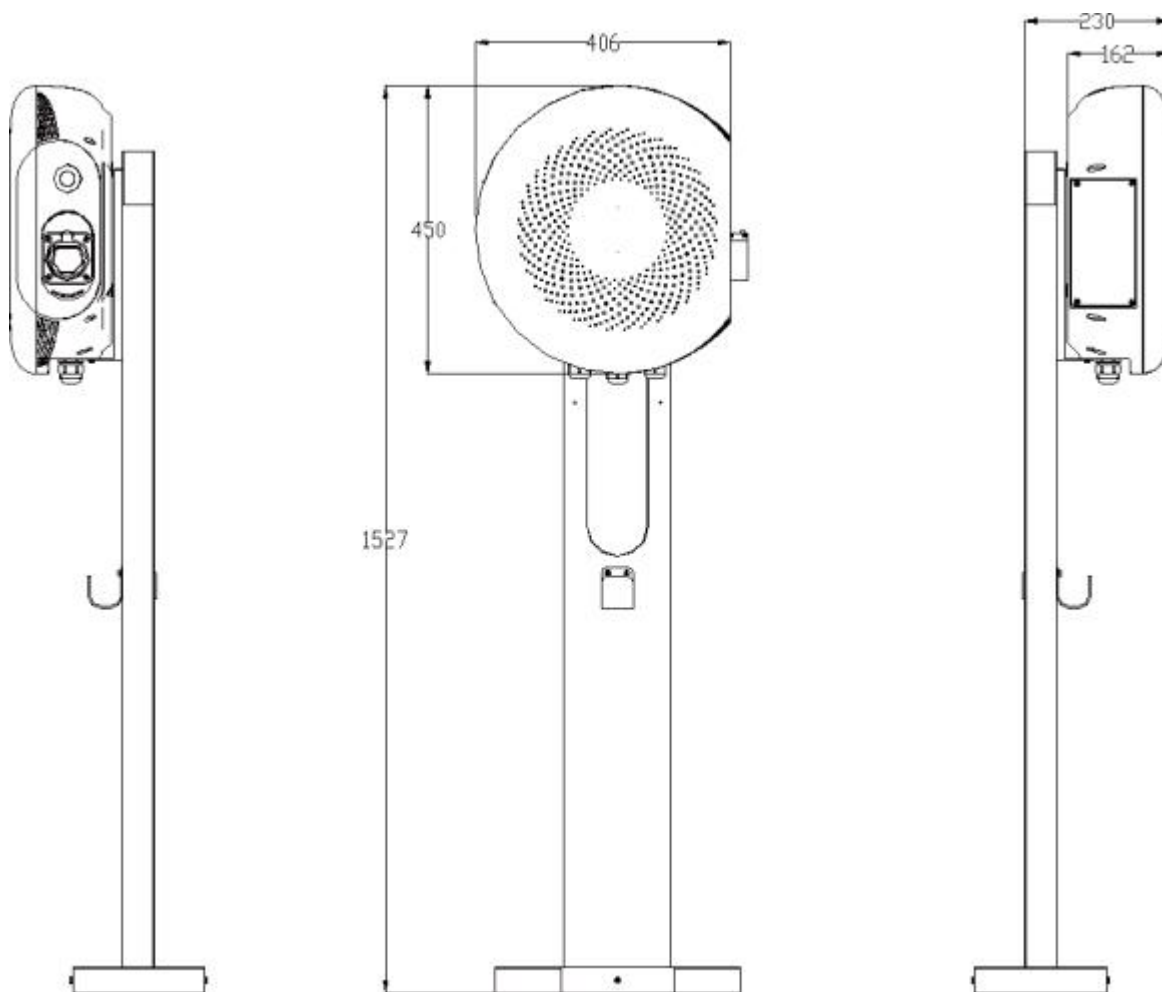
3.2 Installation tools

1		4		7	
	Percussion drill and drill bits (Φ6, Φ12)		wire crimper		Monkey wrench
2		5		8	
	PVC insulation tape		Wire stripper		M8 hexagon wrench
3		6		9	
	Cross screwdriver		Insulating gloves		Tape measure (5m)

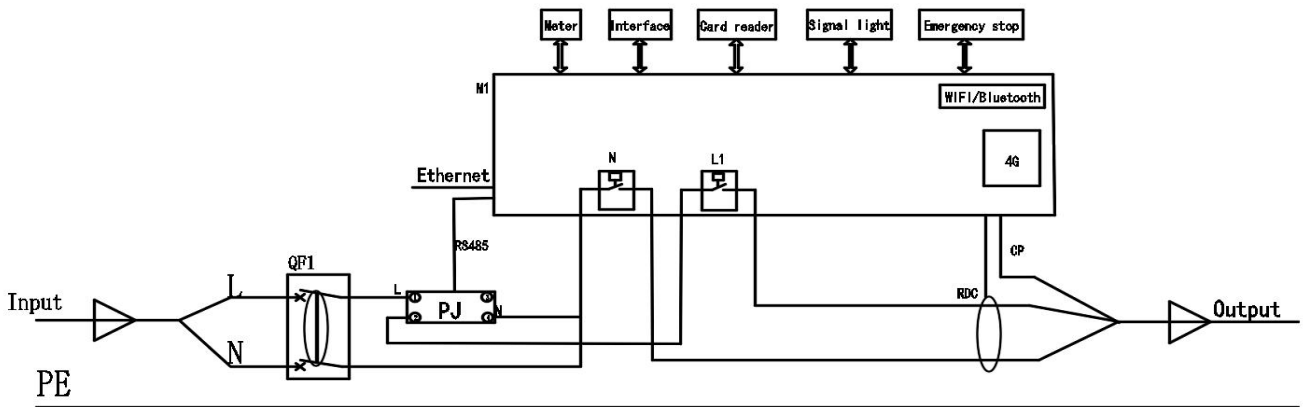
3.3 Cable specifications for AC input(Recommended)

Capacity (kW)	Max.Output Current (A)	Cable specification (recommended value)	Capacity of superior distribution switch	Cable terminal
7kW	32A	3*6mm ²	50A/2P	L1/ N/PE: E9-10
11kW	16A	5*2.5mm ²	25A/3P+N	L1/L2/L3/N/PE: E13-10
22kW	32 A	5*6mm ²	50A/3P+N	L1/L2/L3/N/PE: E9-10

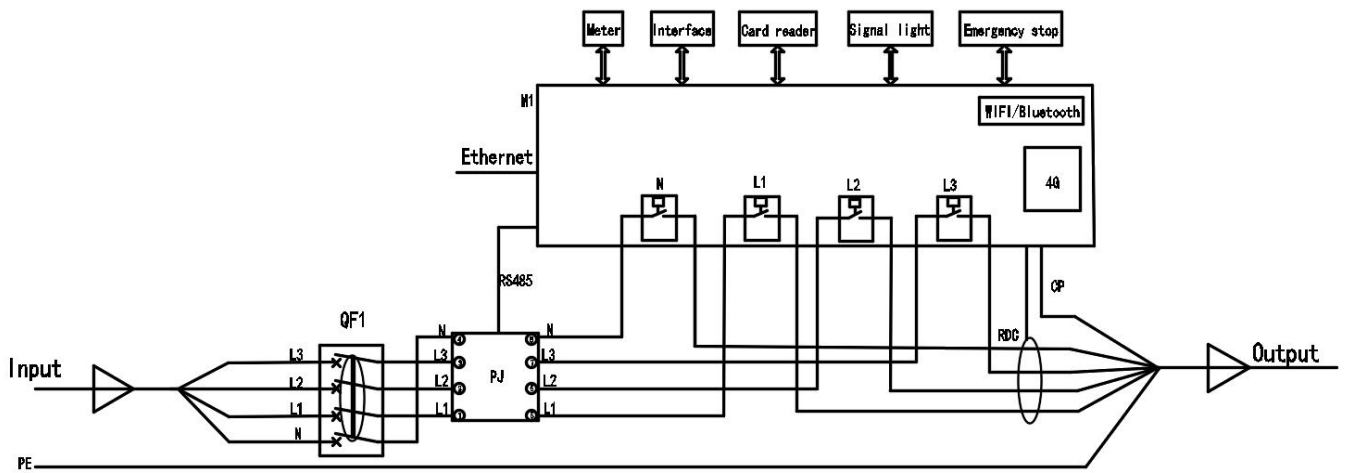
3.4 Column (optional)



3.5 Work principle



7kW Work principle

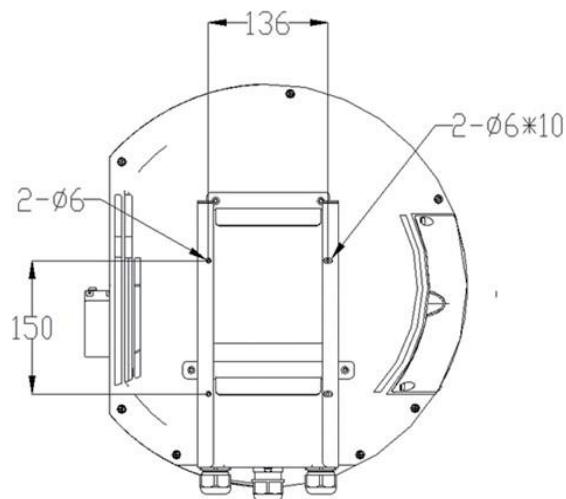


22kW Work principle

4. Installation procedure

4.1 Wall-mounted

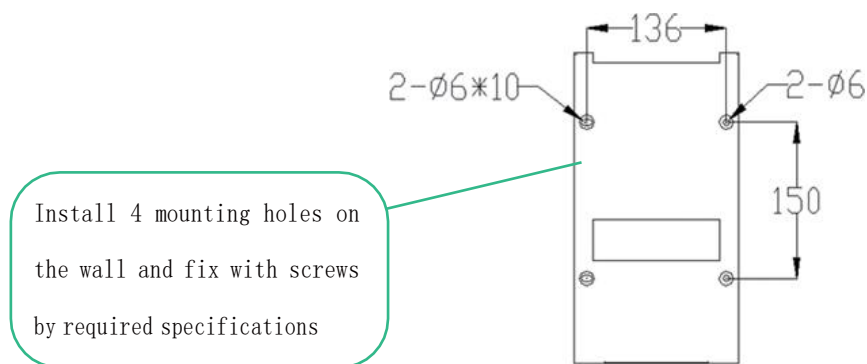
4.1.1 Installation dimensions



(Unit: mm)

4.1.2 Installation procedure

Step 1: According to the drilling hole locations as shown in figure 4.1.2-1, install 4 $\Phi 6 \times 30$ mm expansion tubes in advance (diameter of the drill is $\Phi 6$).



Install 4 mounting holes on the wall and fix with screws by required specifications

Figure 4.1.2-1 Hole locations of the template

Step 2: Fix the wall-mounted template on the wall with 4 cross recessed pan head self-drilling screws (ST4.2*30mm). Refer to figure 4.1.2-2.

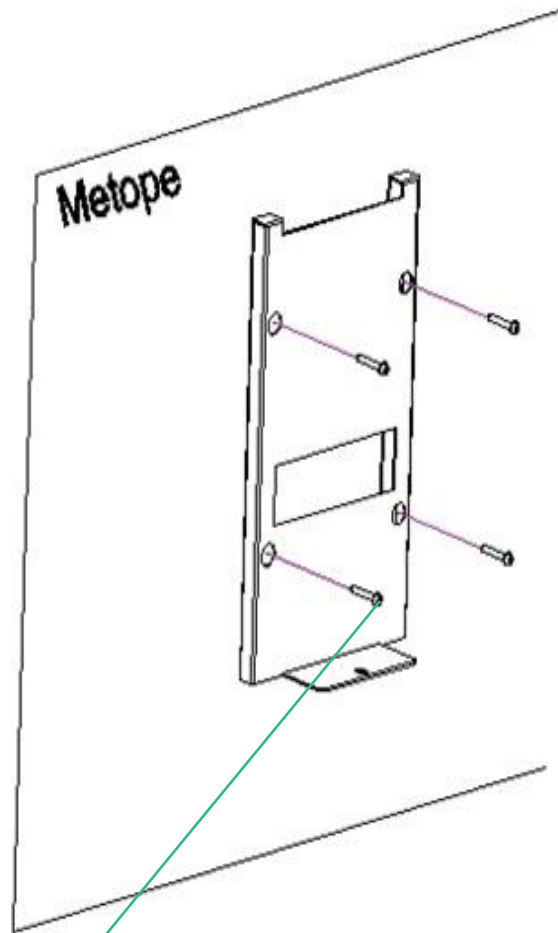


Figure 4.1.2-2 Fixation of the template

Type C stainless steel
ST4.2*30mm (4pcs)

Step 3: Hang the charger on the template with the two hooks on the back and screw it with sabotage-proof hexalobular socket screw (M4*10) at the bottom as shown in figure 4.1.2-3.

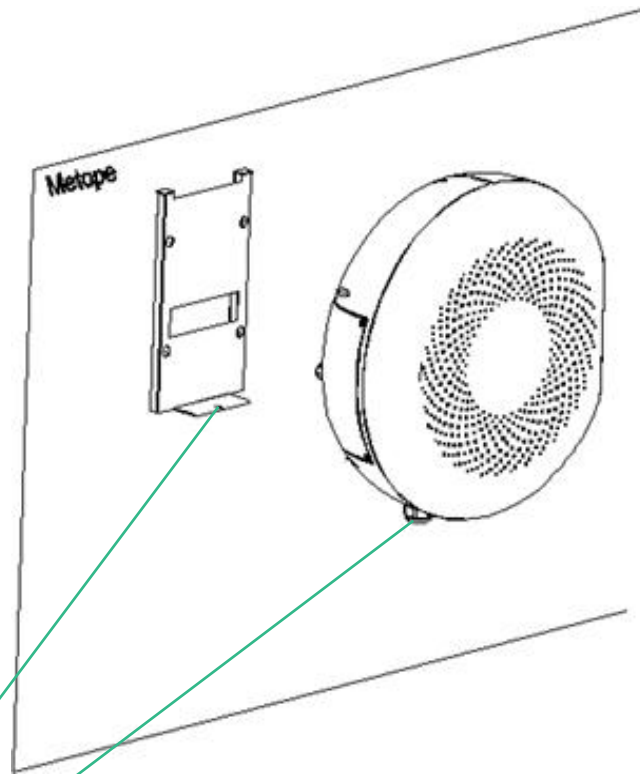
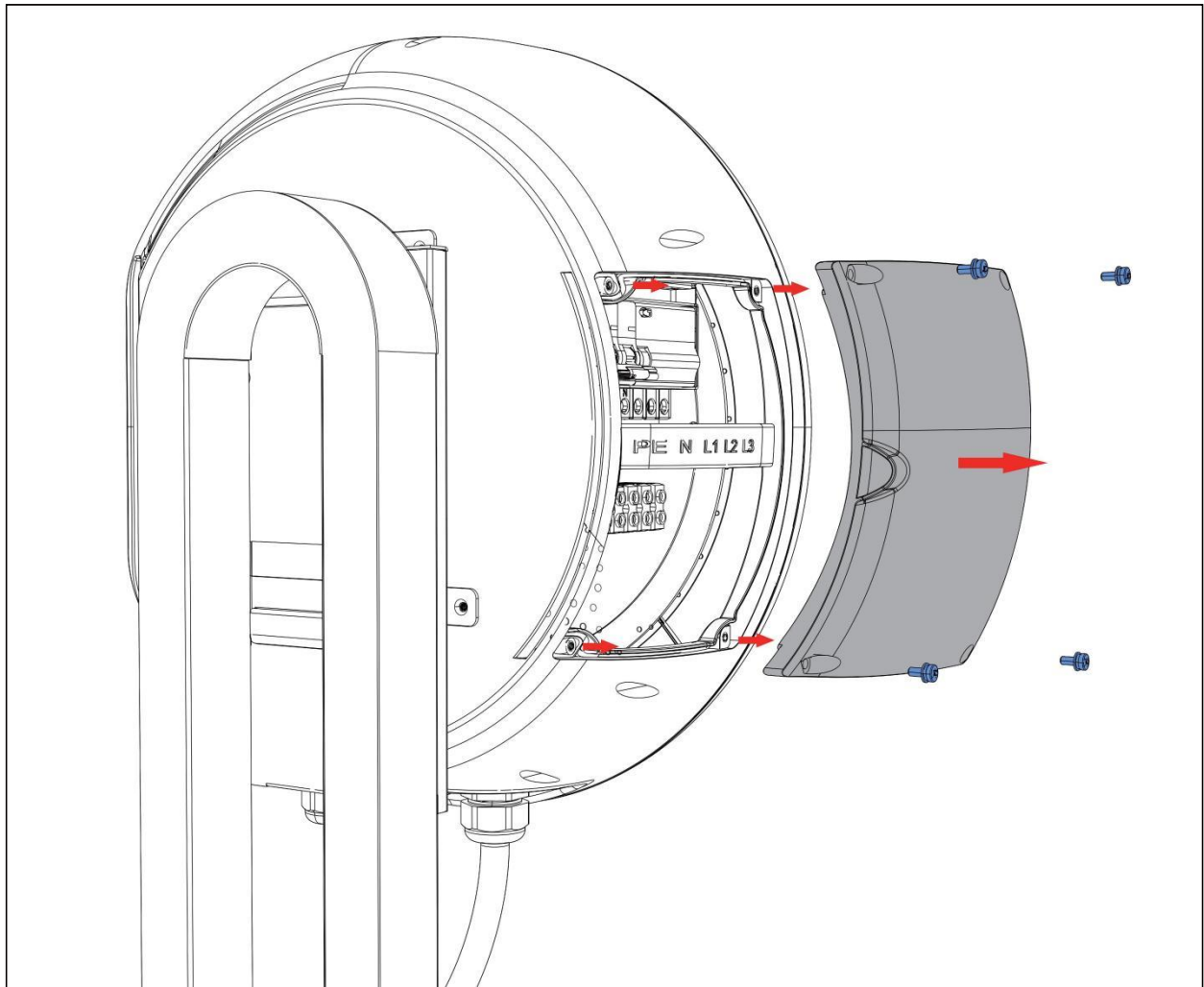


Figure 4.1.2-3 Charger installation

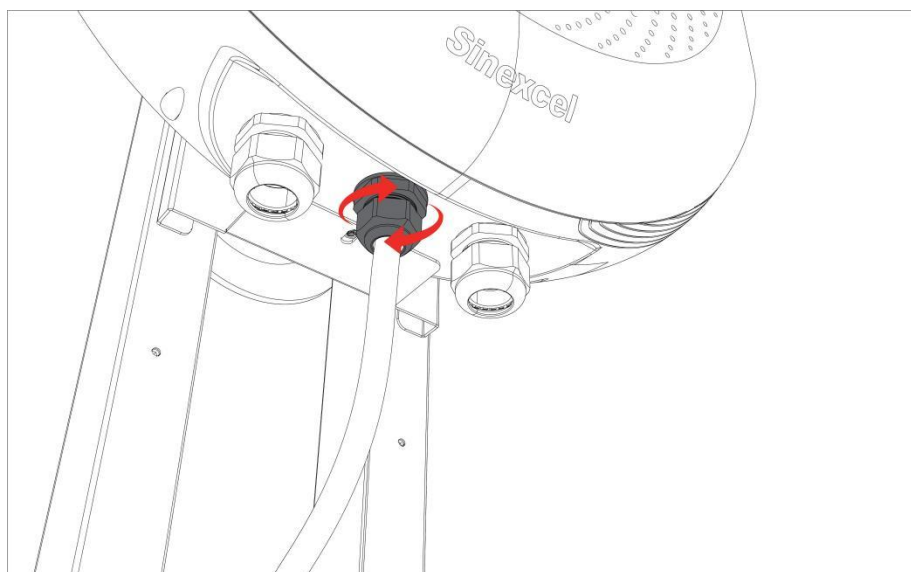
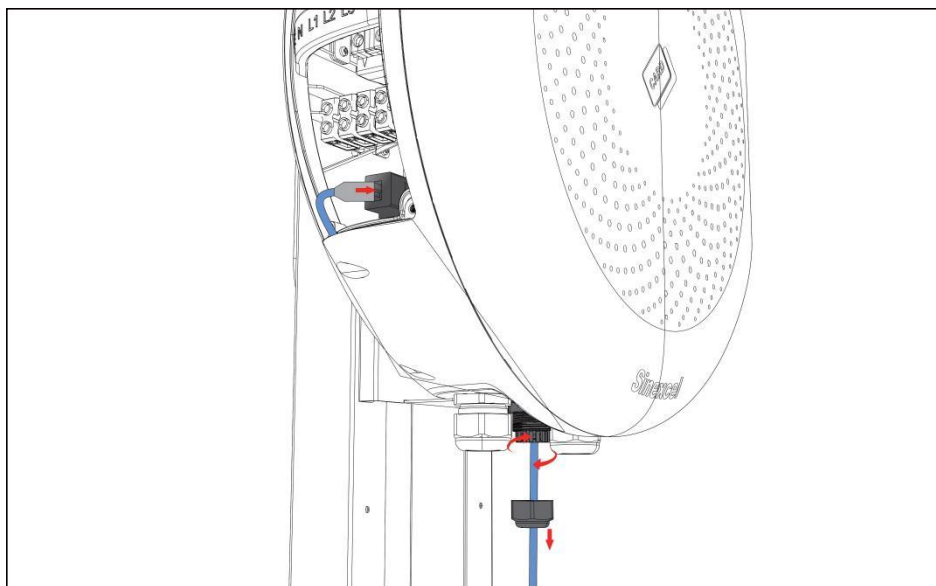
Fix the template at the bottom with M4*10 sabotage-proof hexalobular-socket screw(1pcs)

Step 4: Open the EVSE as shown in figure to do wiring installation. Unscrew four Sabotage-proof hexalobular socket screws on the left cover of the EVSE by a screwdriver, and pull the hook to remove the cover from the EVSE.



Step 5: Connect the Ethernet cable as shown in the figure. Unscrew the waterproof connector under the EVSE, insert the Ethernet cable into the EVSE through the middle inlet hole, and plug it into the Ethernet socket. Finally, tighten the waterproof connector with the monkey wrench to ensure that the cable cannot be pulled out.

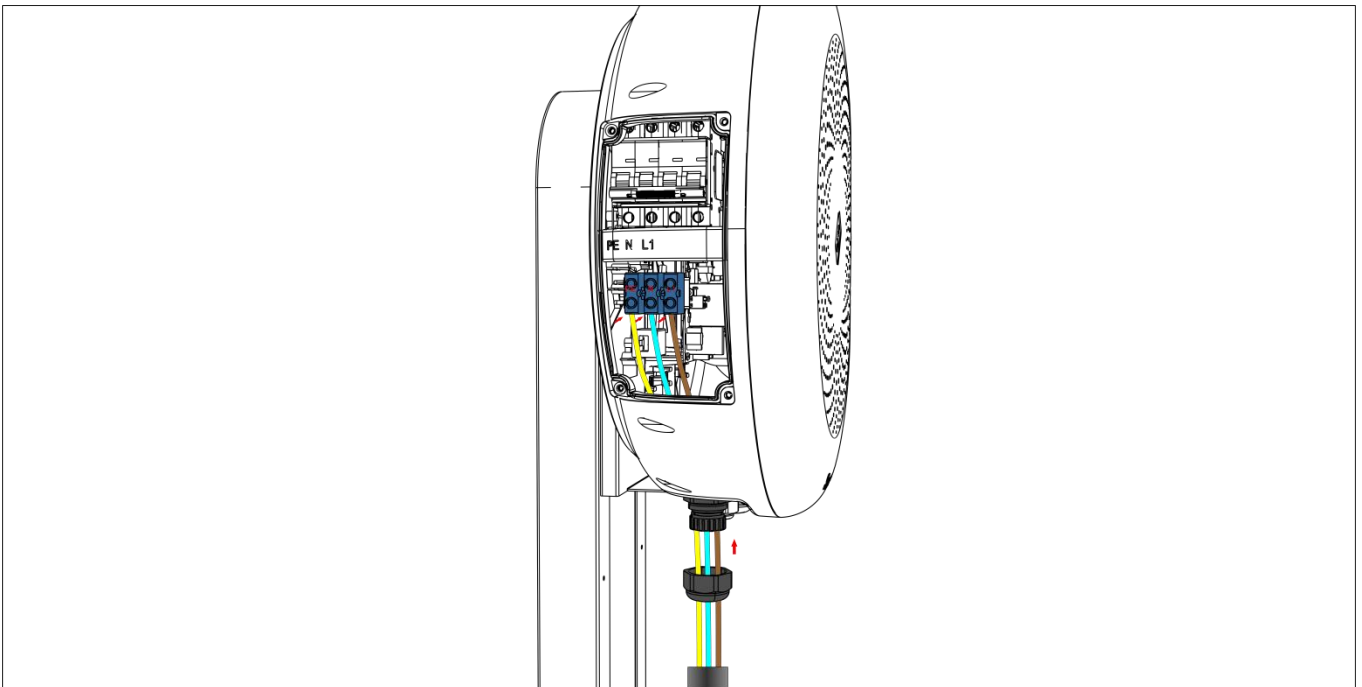
Requirements: Category 5(CAT 5), RJ45 Modular jack



Step 6: Connect the AC input cable as shown in the figure. Unscrew the waterproof connector under the EVSE, insert the incoming wire into the EVSE and connect the cable connector to the terminal block according to the screen printing. Tighten the screw of the terminal block with a tool to clamp the incoming cable. Finally, tighten the waterproof connector with the monkey wrench to ensure that the incoming cable cannot be pulled out.

7kW:

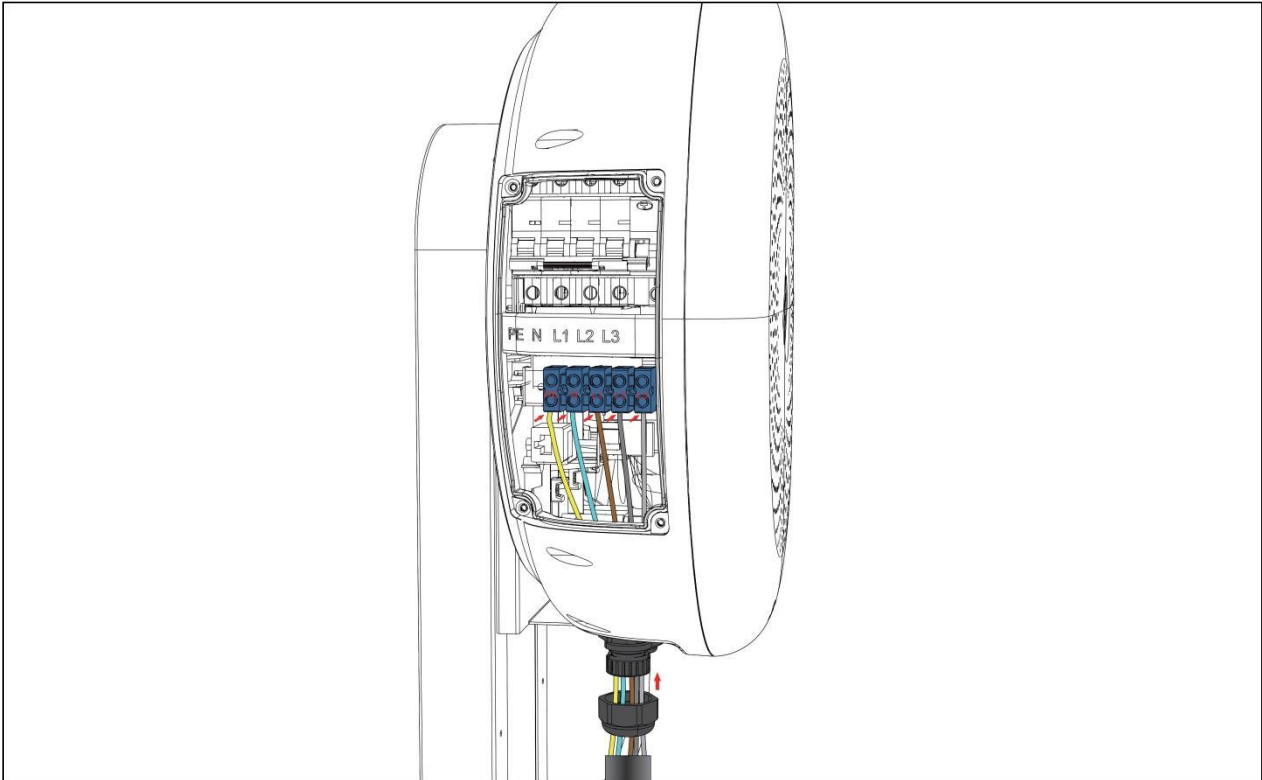
Requirements: Outer diameter of cable is 10~14mm, 3×6mm²
(L1,N,PE) with tube type terminal

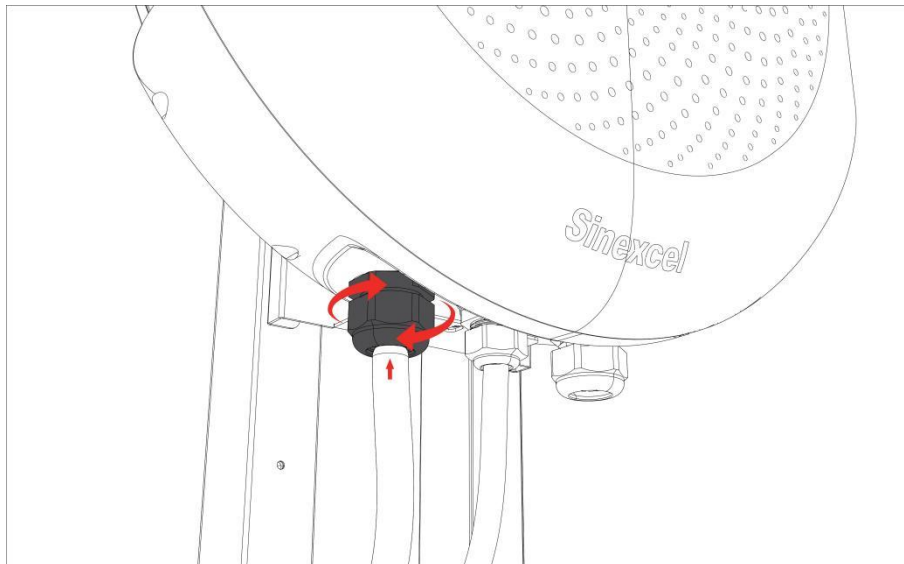


22kW

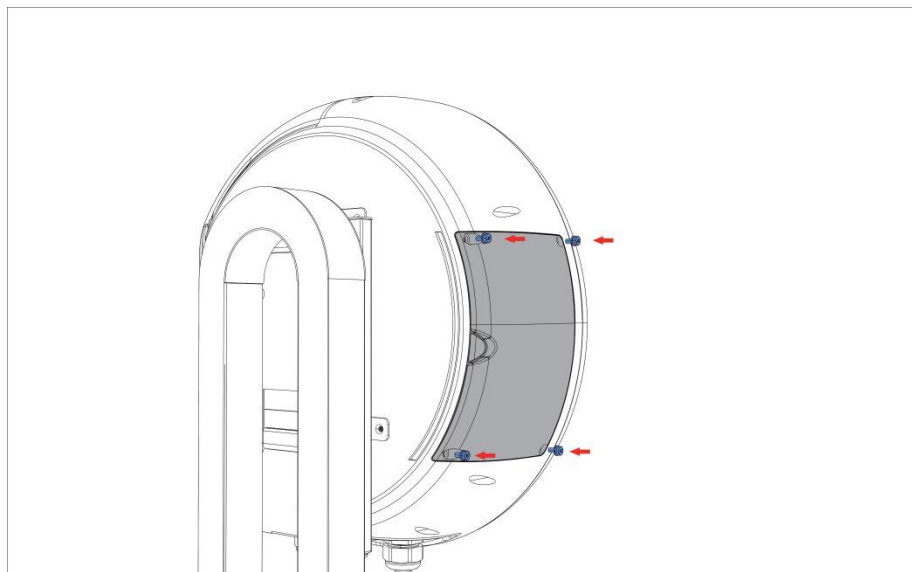
Requirements: Outer diameter of cable is 15~20mm, 5×6mm²

(L1,L2,L3,N,PE) with tube type terminal





Step 7: Follow the process of step 4 reversely to close the EVSE.



Step 8: Put the connector into fixed position on the right of the EVSE. After power on, the LED lights up and the installation is completed. If there is an abnormal state, please solve in time according to the trouble- shooting table (Refer to section 7).

Step 2: Use the percussion drill to drill four holes on the ground, and install 4 GB/T 22795-2008 reinforced expansion anchors (TGQ) M8*80 for preparation as shown in figure 4.2.2-1.

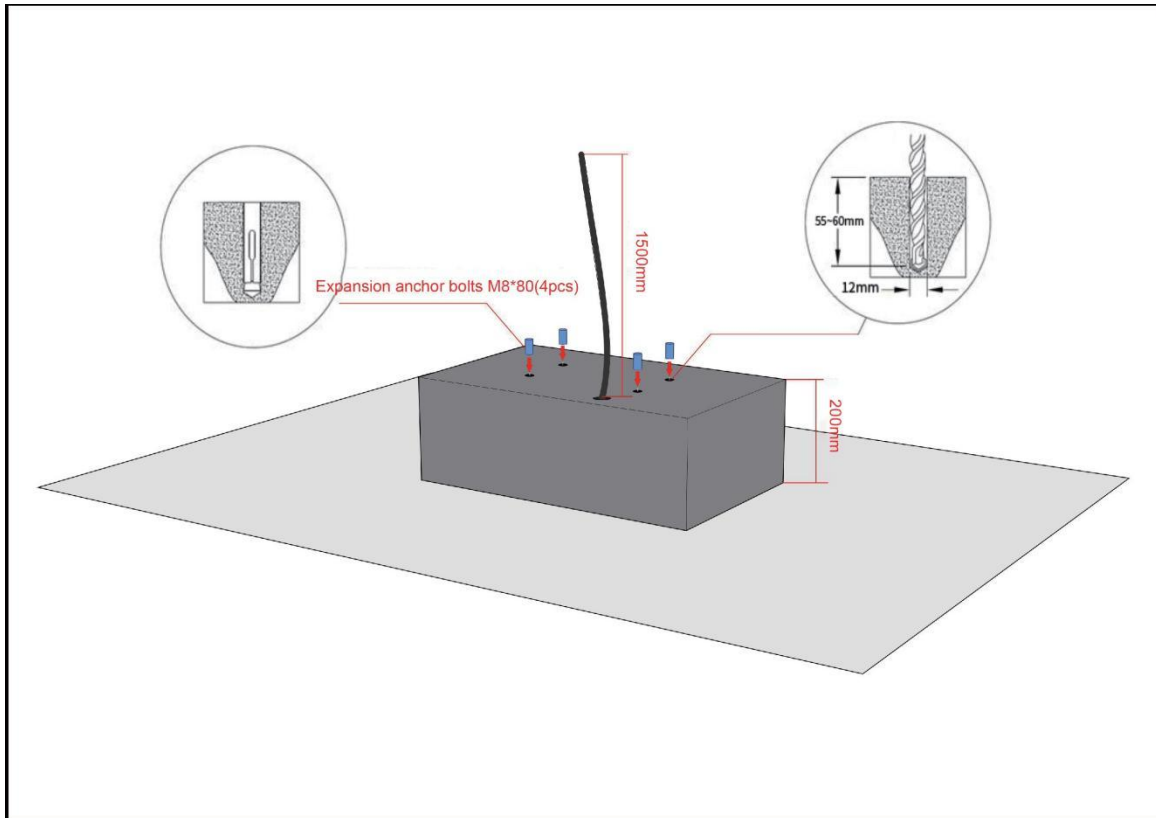


Figure 4.2.2-1 Embedded expansion anchor

Drilling hole diameter:

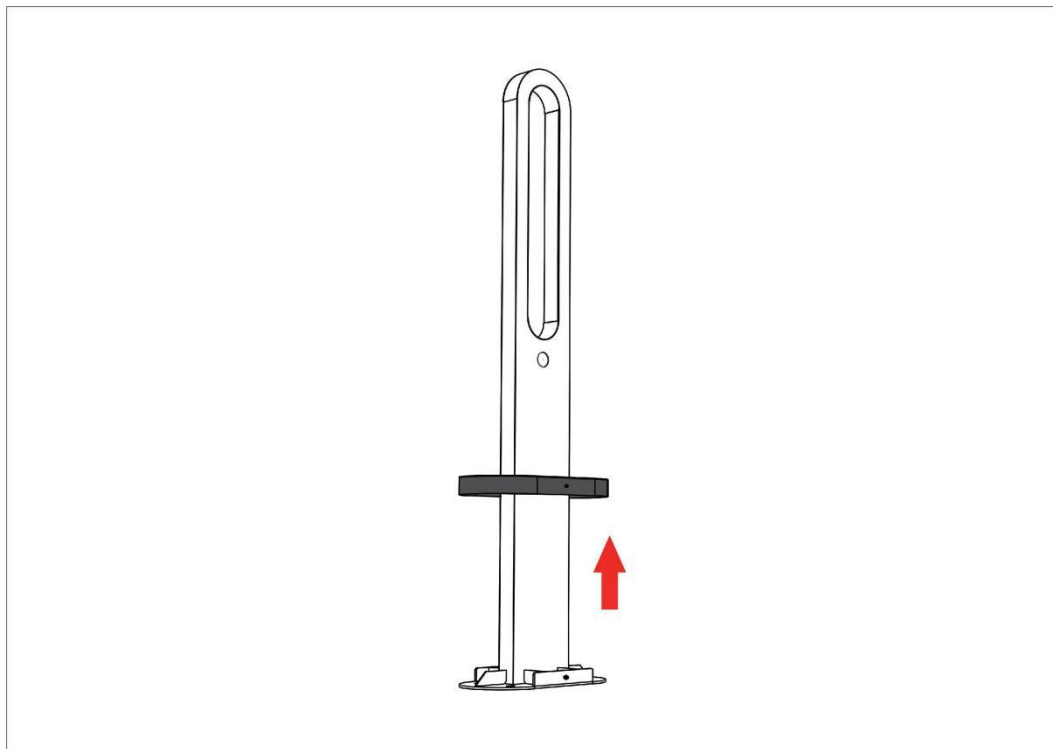
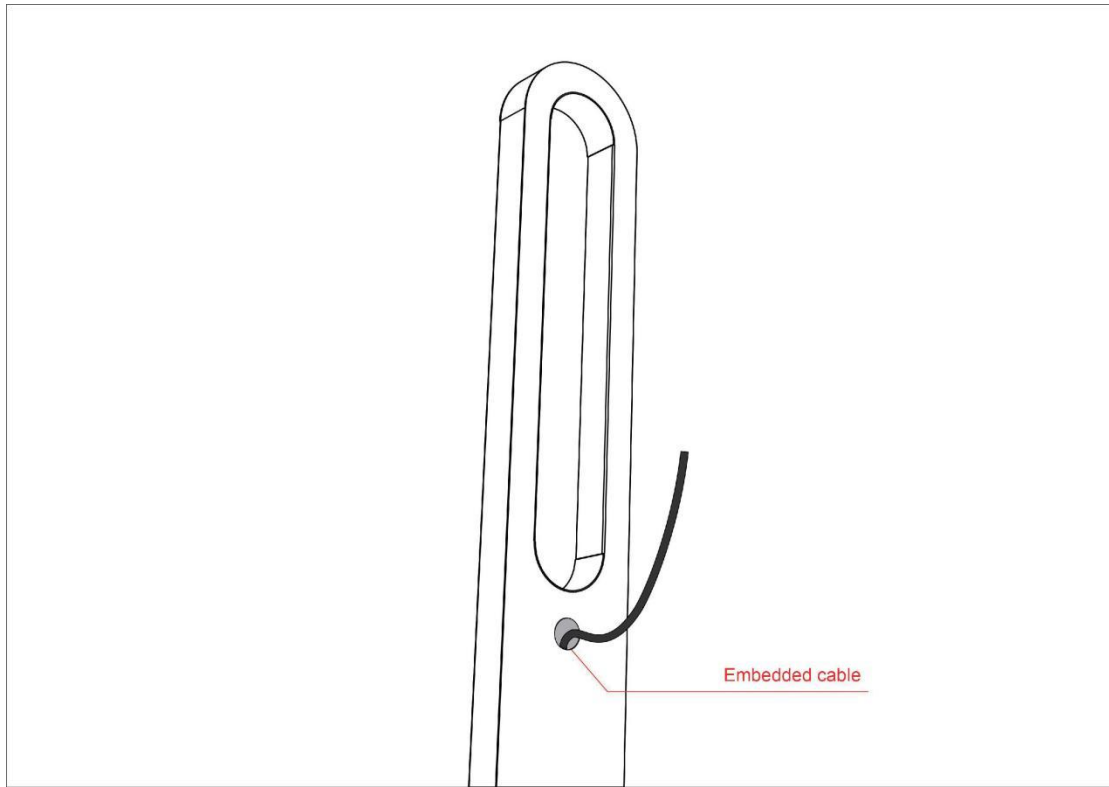
M6 series:10mm

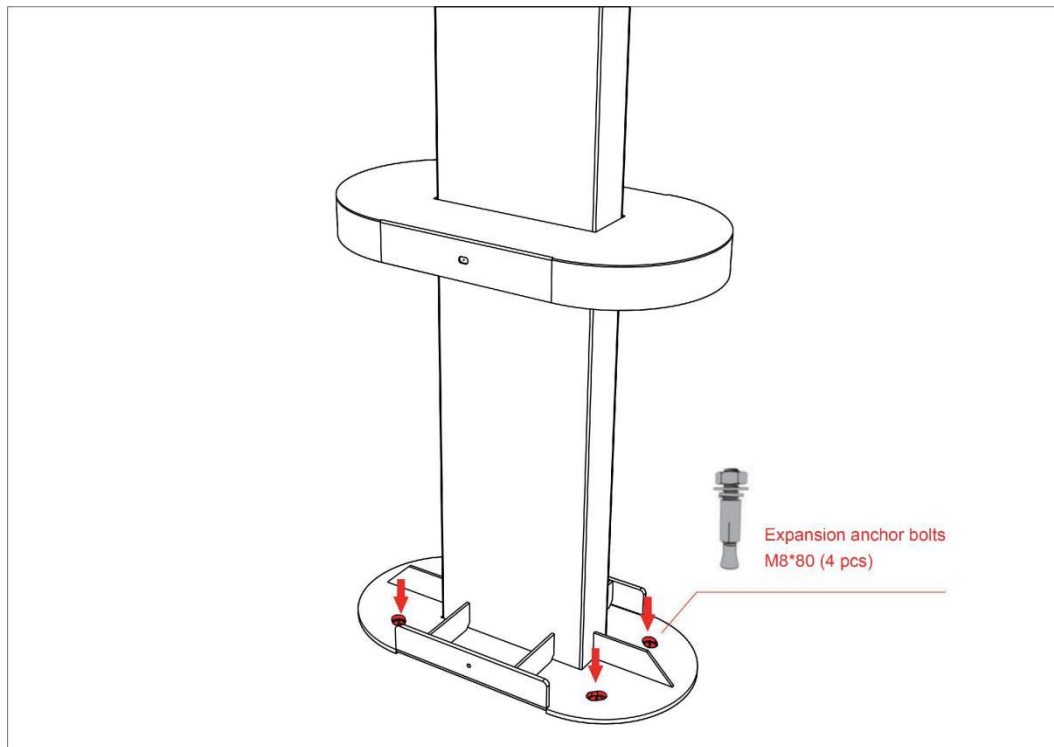
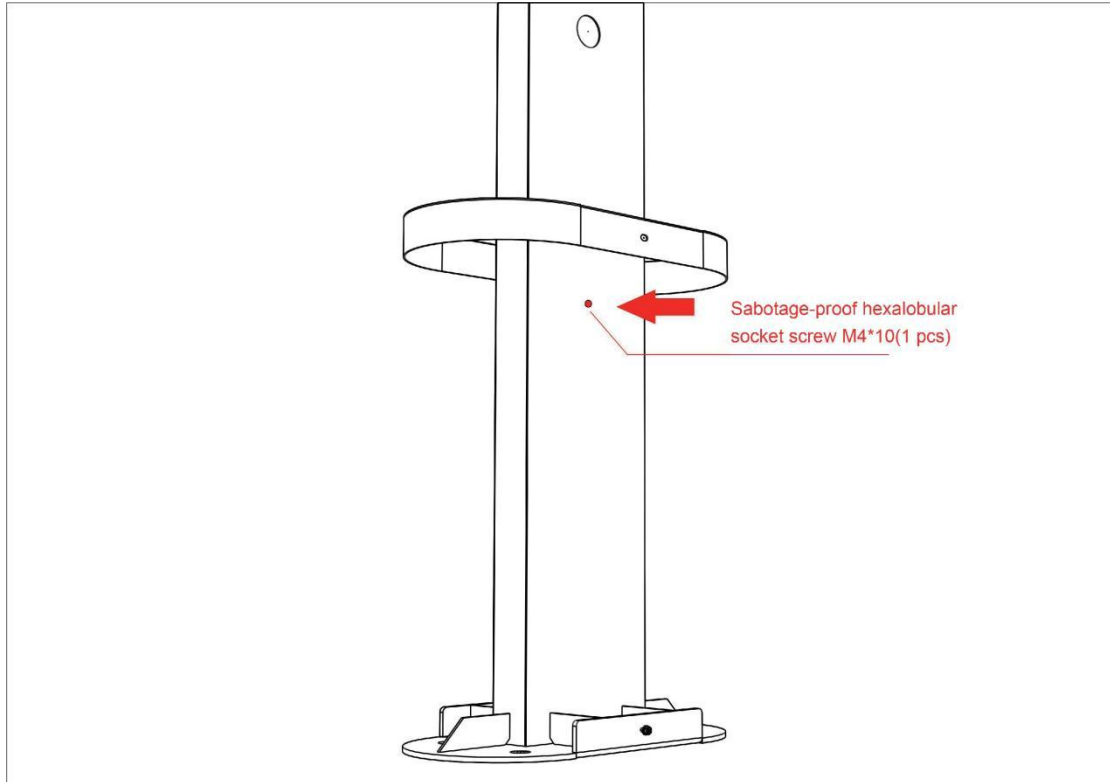
M8 series:12mm

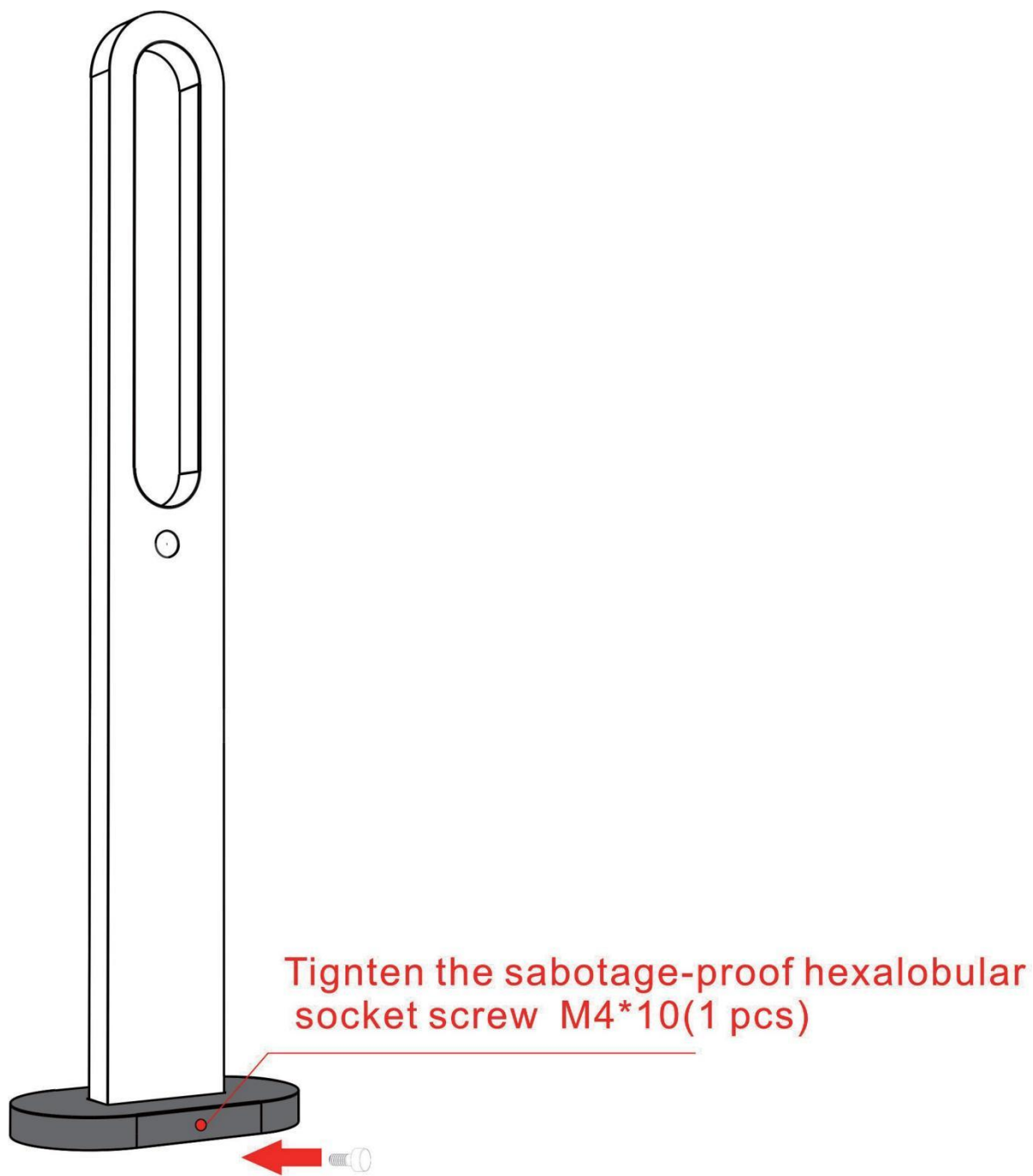
M10 series:14mm

M12 series:16mm

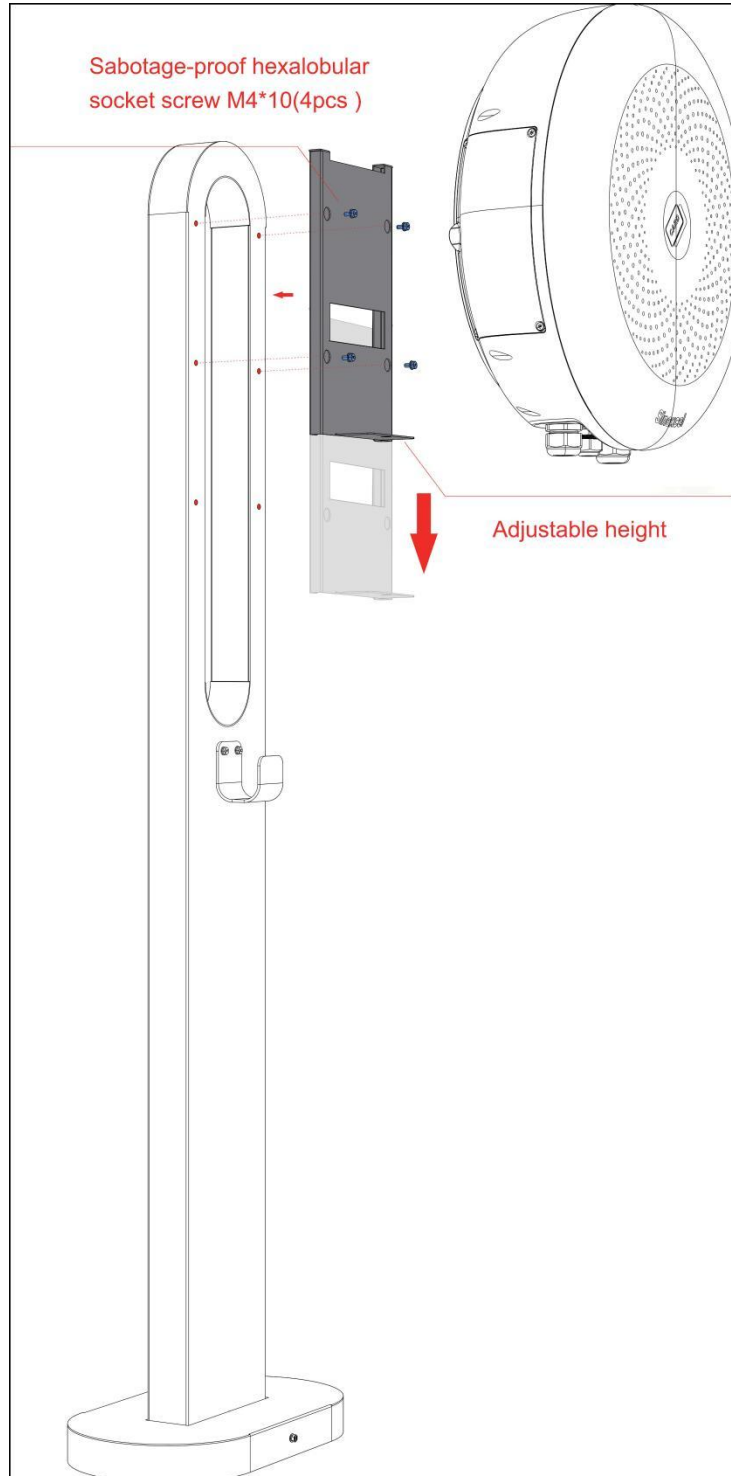
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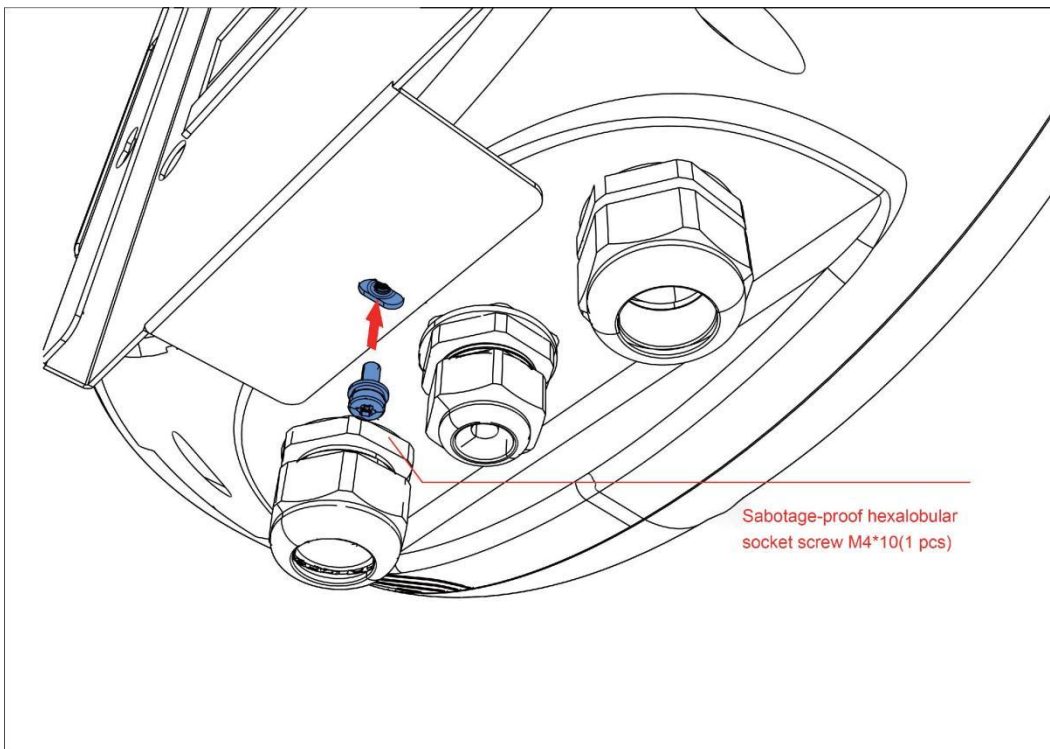
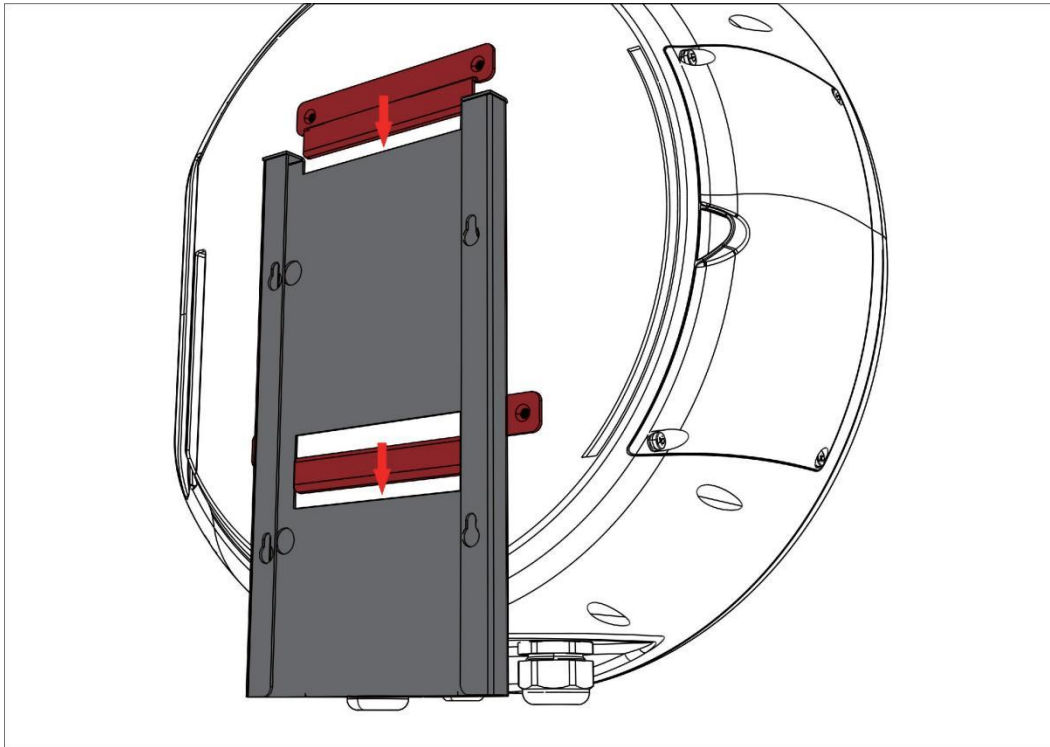






Step 4: Use 4 M4*10 hexalobular socket screw set to fix the wall-mounted template on the pedestal and hang the charger on it, then fix it with hexalobular socket screw set (M4*10) as shown in follow figures.





Step 5—Step 9: The same as step 4 to step 8 form wall-mounted installation procedure.

5. Warranty

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 a full range of technical support, if you have any questions about the product or technical problems, please feel free to contact us.

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Website: www.sinexcel.com

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Sinexcel

Shenzhen Sinexcel Electric Co.,Ltd.

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