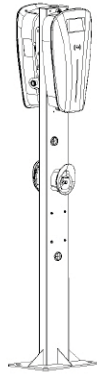





Quick Installation Manual for CL5436

Series Chargers




- Suitable for wall mounting of *CL5436-A07A*, *CL5436-A11A* and *CL5436-A22A* chargers.
- Suitable for pole mounting of single charger and double chargers (back-to-back).

A. Safety Guidelines

 Warning! Failure to assemble and connect as required may lead to serious hazards such as casualties and property losses. Please read the following warnings carefully before assembling and connecting:

- The product must be installed and authorized by professionals for use.
- If this manual does not explain your question or does not clearly describe it, contact your local distributor or service provider for assistance.
- Do not assemble and connect the product or accessories if they are damaged or missing. If you need to replace parts or other items, contact your local distributor, service provider or logistics provider for assistance.
- The pole is suitable for wall mounting and pole mounting of *CL5436-A07A*, *CL5436-A11A*, *CL5436-A22A* chargers. Any use beyond the scope may make you unable to obtain a perfect product experience, and even cause serious safety risks. Therefore, please do not use this product for purposes other than its designed purpose.
- The cable connection and installation of the charger must meet the electrical design requirements.
- The Company will not be liable for any damage or injury caused by the following situations: unauthorized modification of the product; use beyond the scope; failure to install according to procedure or improper use.

The right to modify and change this manual and products belongs to T-POWER PTY LTD.  Any change will be made without prior notice.

B. Intended Use

CL5436 series wall-mounted and pole-mounted chargers are developed, manufactured, tested and documented in accordance with safety standards and customer requirements. If you strictly follow the instructions and safety guidelines for their intended use, the products will not pose any danger to property or personal health. Please strictly follow the instructions contained in this manual. The following condition apply to the intended use:

- *CL5436-A07A*, *CL5436-A11A* and *CL5436-A22A* AC chargers must be mounted on the pole in single or double (back-to-back) mounting mode.
The following uses are not considered as expected:
 - The chargers are installed under installation conditions not listed in this manual.
 - The chargers exceed the weight of the pole or fixed screws.
 - The fixing foundation surface does not have stable installation conditions, for example, it is located in the geological hazard risk area, and the support foundation load is insufficient.
 - Injury or damage to personnel, equipment or the environment may be caused.
 - Installation permit is not obtained or installation is not approved by the owner.
 - Installation is in violation of local laws and regulations.

C. Parts Configuration

Please select appropriate parts for installation according to your actual situation (wall/pole mounting):

Part Name	Quantity	Source
M12x80 Stainless steel expansion bolt	x4	Purchased during installation
M4x10 Stainless steel cross recessed pan head combination screw	x8	Pole accessories
Cable protection ring	x5	Pole accessories
Distribution box components [Note 1]	x1	Optional
Charger socket	x1	Charger accessories
M4x20 Stainless steel cross recessed pan head combination screw	x6	Charger accessories
Sealant	x1	Charger accessories
PE plug	x6	Charger accessories
ST4.2*50 cross recessed pan head tapping screw	x6	Charger accessories
M5x20 combination screw	x4	Charger accessories

[Note 1] Distribution box components are purchased and installed by users based on their requirements.

CL5436	A07A	A11A	A22A
Charger pole	9kg	9kg	9kg
Charger [Note 2]	<3.5kg	<4.5kg	<5.2kg

[Note 2] There are more configurations for the charger, and the weight is for reference only.

Tool Name	Purpose
Cross screwdriver	Used for removal and installation of back maintenance cover
Straight screwdriver	Used for removal and installation of back maintenance cover
Tape	Used for measurement of cables on site
Terminal crimping pliers	Used for crimping of input terminal
Wire stripper	Used for wire stripping on site
Percussion drill (16mm bit)	Used for drilling on the wall on site

According to the screen-printed access cable at the wiring terminal of the charger, the terminal post is M5 screw. Users should configure the corresponding wiring terminals by themselves. Sufficient tolerance should be reserved for the cable connected to the terminal to prevent any tension or stress caused by external forces.


Note: Cable type and cross-sectional area are shown as follows:

Rated power	Rated voltage	Rated current	Specification
7kW	AC220V	32A	ZR-YJV-0.6/1kV 3*6mm ²
11kW	AC380V	16A	ZR-YJV-0.6/1kV 5*4mm ²
22kW	AC380V	32A	ZR-YJV-0.6/1kV 5*6mm ²

Note: The type A leakage protection device with tripping characteristic of C and segmenting capacity of no less than 6kA should be connected at the front of the charger. The recommended specifications are as follows:

Rated power	Rated voltage	Rated current	Specification
7kW	AC220V	40A	C40A/2P
11kW	AC400V	25A	C25A/4P
22kW	AC400V	40A	C40A/4P

D1. Installation Requirements

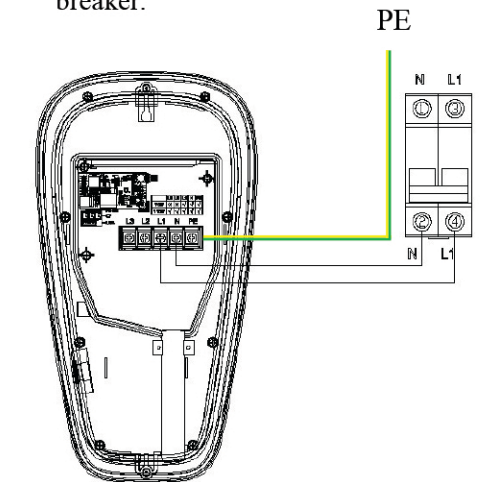
 Notice! Note the following information during wall or pole mounting of CL5436 series chargers:

- Comply with the technical requirements and precautions of this manual.
- Obtain authorization and permission for the installation location.
- When the chargers are installed near a parking space, it is necessary for the user to provide the necessary anti-collision measures or safety measures to avoid collisions.

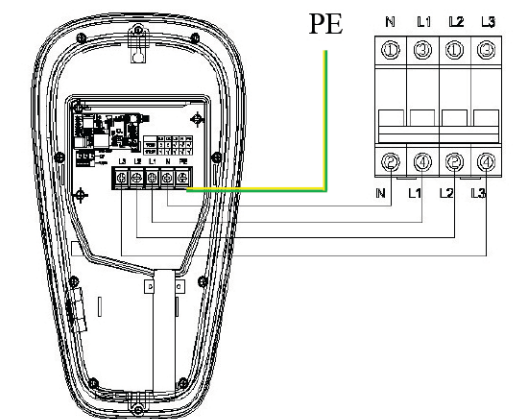
The pole supports entry from the bottom and the top, and the users can choose the incoming position flexibly.

D2. Installation of Protection Device

- Installation of single-phase leakage circuit breaker.

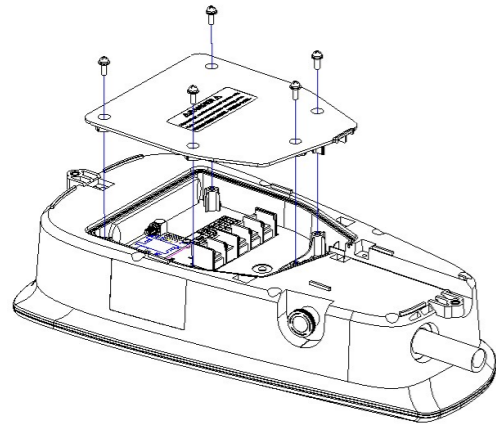


- Installation of three-phase leakage circuit breaker.

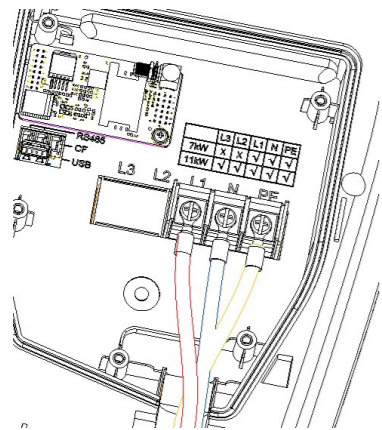


D3. Installation of charger wires

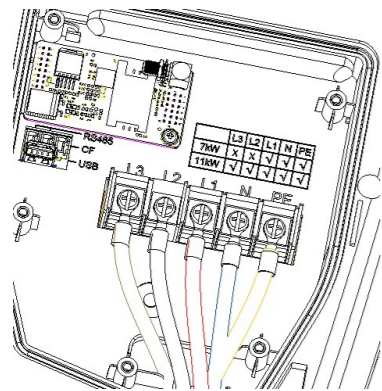
- Loosen the five screws on the backboard with a cross screwdriver and remove the cover of the junction box.



- Connection of single/three-phase cables
7kW AC charger is connected to L1, N and PE in turn;
11/22kW AC charger is connected to L3, L2, L1, N and PE in turn.



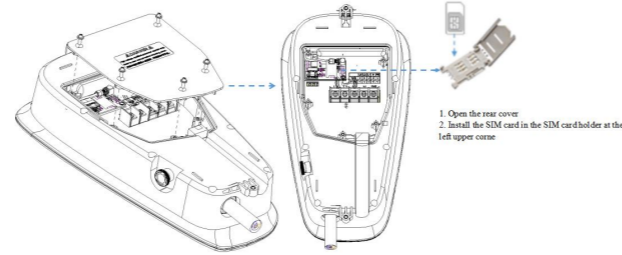
① Single-phase input connection cable



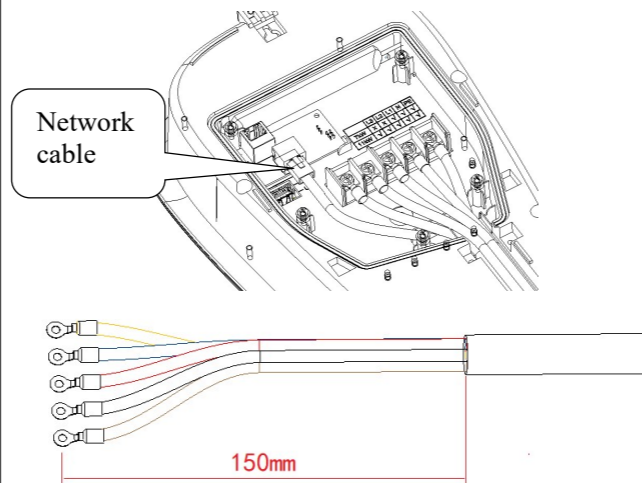
② Three-phase input connection cable

- Communication installation

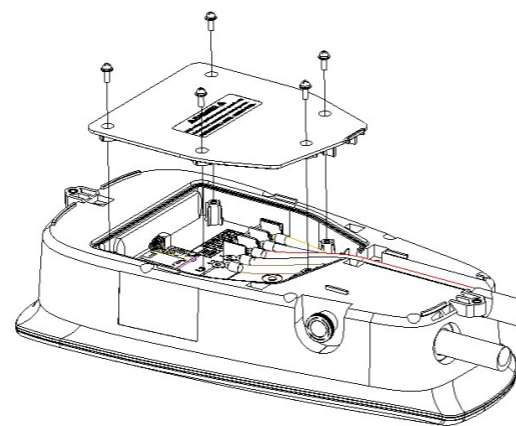
- If 4G communication is selected, insert the SIM card according to the accessory installation steps shown in the figure.



- If Ethernet communication is selected, plug the network cable into the corresponding position according to the figure, and the length of the input line must be at least 150mm.

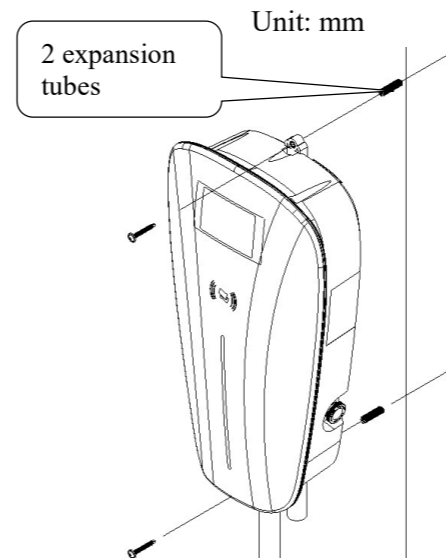
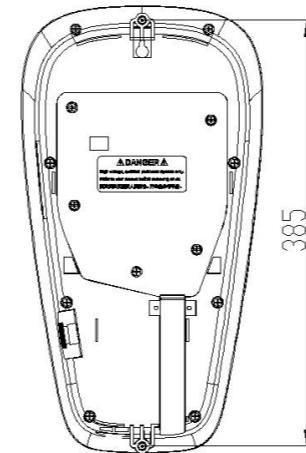


- Close the cover and tighten the five screws with a cross screwdriver.

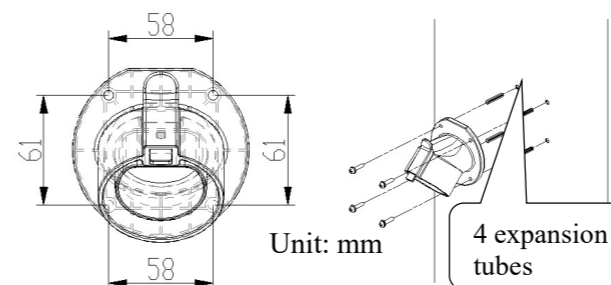


D4. Fixation of wall-mounted charger

- When mounting on the wall, drill holes on the wall according to the following dimensions, then knock two plastic expansion tubes into the holes, and finally fix the charger on the wall with two screws. During installation, the screw tool should be driven into the wall at an angle.



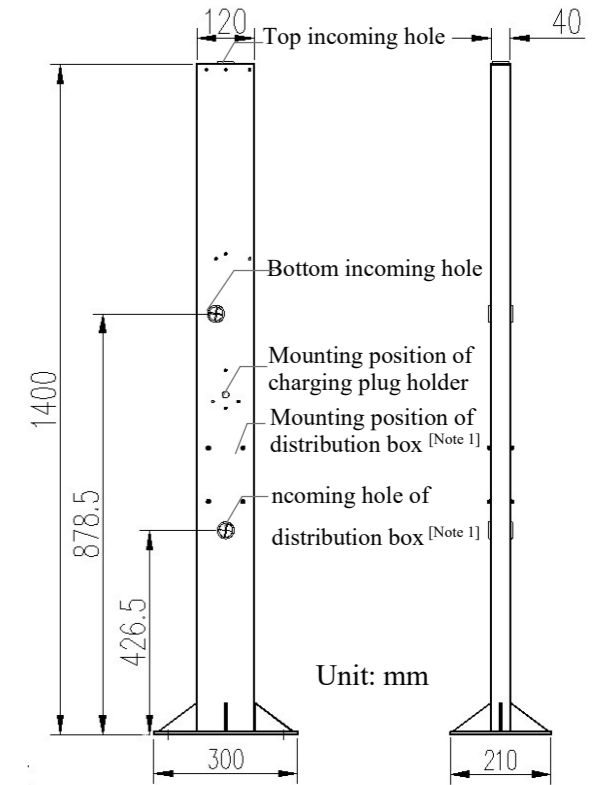
- Install the plug holder on the wall. First, drill holes on the wall according to the dimensions below, then knock four plastic expansion tubes into the holes, and finally fix the plug holder on the wall with four screws.



D5. Pole Dimensions

The construction side may establish a targeted construction scheme according to this installation manual after the construction site investigation and calculation, which shall not be lower than the requirements of this manual in principle. To ensure reliable fixation, the pole must be installed on a level, solid and reliable foundation.

Dimension drawing of pole:



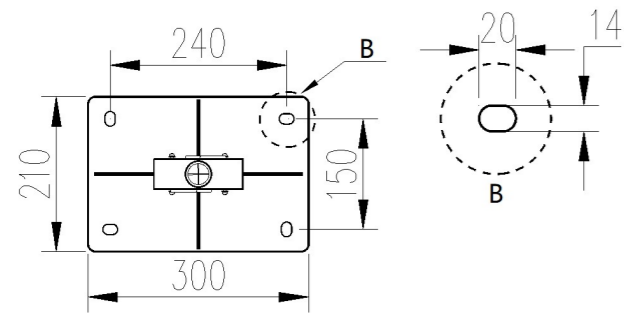
Dimension drawing of pole
Dimension drawing for fixation of pole

D6. Installation Foundation

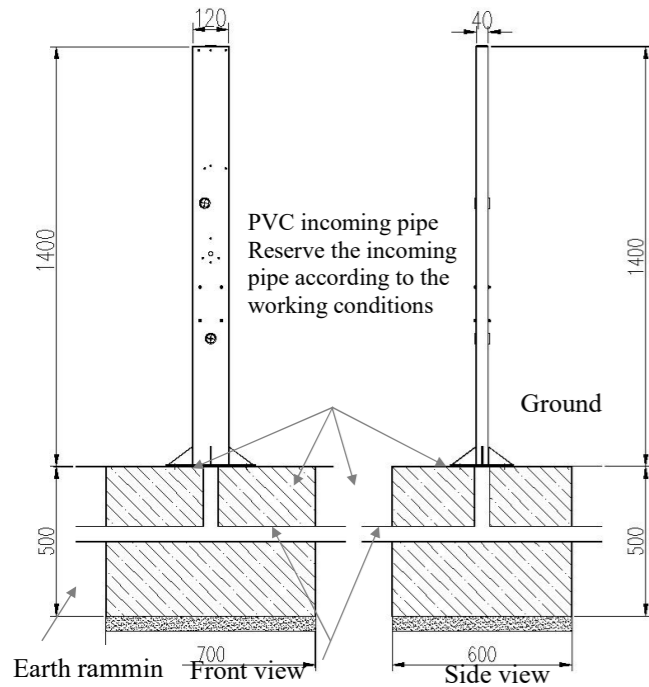
When the product is installed in the place where no water will be accumulated:

- When excavating the foundation pit, it is necessary to ram earth and reinforce wet, loose and mixed foundation.
- The installation foundation shall be made of C30 concrete, and the load of the foundation bottom shall not be less than 1,000kg/m². The recommended dimensions of the installation foundation shall not be less than L700×W600×H500mm.
- A levelling instrument shall be used on the surface of the foundation to ensure that it is level.
- When the bottom incoming mode is selected,

appropriate incoming pipe shall be reserved according to working conditions. The incoming pipe is generally reserved in the center of the installation pier.



Unit: mm

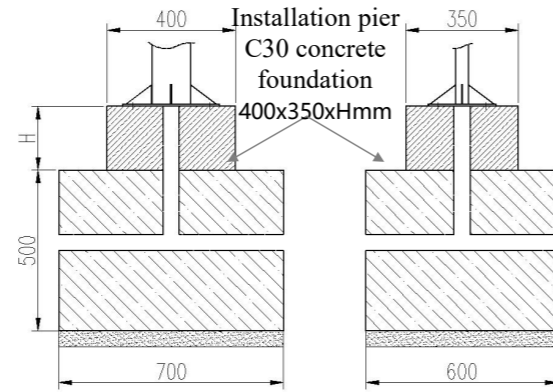


C30 concrete foundation
700x600x500mm

Unit: mm

When the product is installed in the place where water may be accumulated:

C30 concrete piers can be added to the foundation as shown above. The recommended dimensions are L400xW350xHmm. The height of the installation pier is H100~200mm, which should be adjusted according to the characteristics of the terrain.



Unit: mm

Front view

Side view

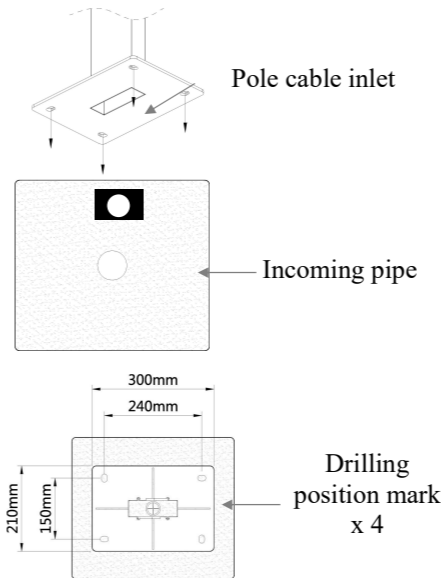
E1. Drilling Requirements

Four sets of M12x80 stainless steel expansion bolts are used to fix the pole. Refer to the following table for the technical requirements of drilling (bolts are provided along with the pole):

Drilling	C30 concrete foundation	M12x80
Foundation bearing load	No cracking and loosening under fixed tension condition	4 sets
Recommended hole diameter		16mm
Recommended hole depth		60mm
Recommended locking torque		20N.M

E2. Drilling Preparation

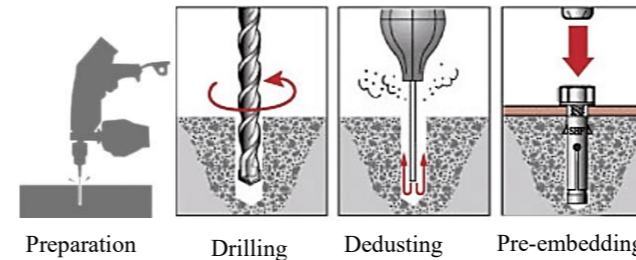
Use the pole base as a drilling template, align the cable inlet at the bottom of the pole with the incoming pipe of the installation foundation, place the pole base flatwise on the installation foundation, mark the four drilling positions with a marker according to L240mmxW150mm as shown in the following figure, and prepare suitable drill bits.



E3. Drilling

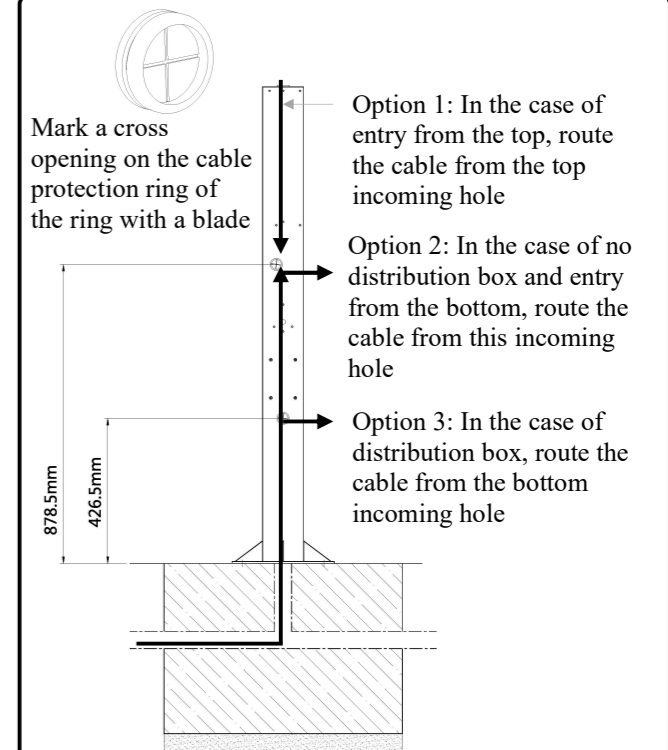
Notice! Failure to carry out drilling operation as required may lead to casualties and serious risk of fastening failure. Please read the following precautions carefully before drilling:

- Construction permits must be obtained.
- The construction personnel shall be qualified.
- If the incoming cable is pre-laid, ensure that the incoming cable is not charged.
- Do not unscrew the nut when embedded to prevent it from falling into the hole.



E4. Cable Routing

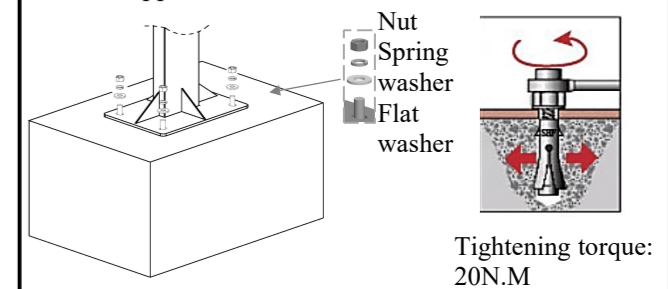
If the incoming cable is routed through the installation foundation, route the AC incoming cable through the bottom of the pole before fixing the pole, and select the cable outlet position on the pole based on the product configuration:



E5. Fixation of Pole

Notice! Due to possible limit by the casting quality of the concrete base, the locking torque can be the recommended value. When fixing, do not knock the charger to prevent damage to the surface coating and affect the service life and appearance.

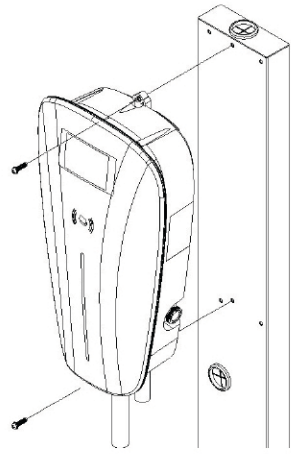
Do not knock the column when fixing, to prevent damage to the surface spraying and affect the service life and appearance.



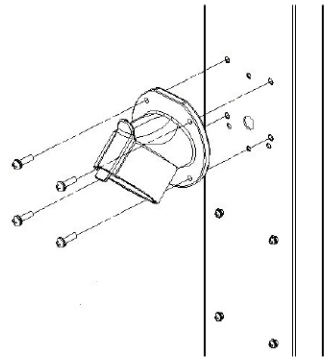
F. Fixation of Pole-mounted Charger

Notice! CL5436 series poles are suitable for installing CL5436-A07A, CL5436-A11A and CL5436-A22A AC chargers. Before fixing the chargers, please note the following:

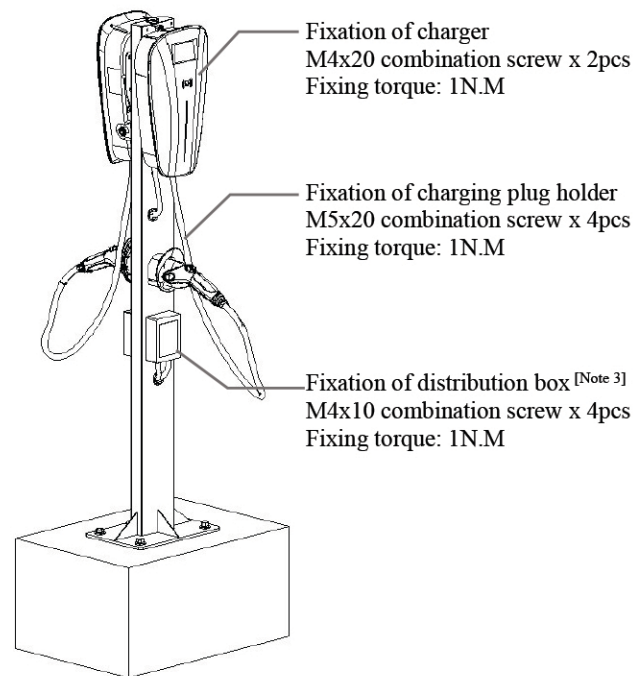
- Before fixing, ensure that the cable is not live.
- When fixing, do not fall or hit the AC charger.
- Do not forcibly shake the pole after fixation.
- Install the pole to the charger body and tighten 2 screws.



- When installing the plug holder on the pole, tighten four screws.



- Fix the upper and lower hangers and the charging plug holder of the charger with M4x20 screws supplied with the charger.



[Note 3]: The distribution box is optional. The installation mode of the distribution box should be selected according to the product configuration, and electrical connections should be

made according to the charger manual.

G. Post-installation Inspection

- According to the design and protection level requirements, the joint between the bottom of the charger and the foundation must be sealed with a sealing gasket to prevent insects or dirt from entering the charger.
- Properly dispose of all transportation and packing materials in accordance with local regulations.
- Clean up the sundries inside and around the charger, such as small-segment cables, ties, screws and nuts. Do not leave installation tools on site or inside the charger (record the types and quantities of tools to prevent them from being missed).
- Wipe the insulation with ESD cloth. Do not use any corrosive solvent.
- Check whether the base is fixed and sealed.
- Check whether internal components of the device are securely tightened.
- Check whether the electrical connection and cable distribution are correct and complete, whether the connection is secure, and the grounding is reliable.
- Check whether the protection level of the device meets the requirements, especially the cable inlet at the bottom of the charger.
- Check for appearance, marking, integrity and cleanliness.

H. About Us

Shenzhen CEGN Co., Ltd is mainly engaged in the research and development of NEV charging devices, the construction, operation and maintenance of the charging network and related value-added services. Adhering to the concept of innovation-driven research and development, CEGN is committed to providing customers with more intelligent, energy saving and economic charging solutions.

By participating in the standards and leading the industry development, CEGN takes the lead in the research and development of charger products. It is the first charger manufacturer to complete on-vehicle testing in the extremely cold and hot regions of the country. It has actively participated in commercial

solar + energy storage projects, and constructed the earliest large-scale commercial super power rack charging project in China.

Through independent research and development of charging cloud, vehicle cloud, energy storage cloud, energy use cloud, electricity sales cloud and other platforms, docking with government supervision platform, horizontal interconnection operation, and compatibility with parking, advertising media and other application scenarios, perfect C-end and B-end applications provide customers with an intelligent and efficient operation management platform.

Through the standardized construction process of the charging station, CEGN has accumulated rich experience in the station construction, and provides customers with the planning, design, construction and operation management services of the station.

As a comprehensive new energy service provider, CEGN makes life better using green energy!

I. Contact Us

T-POWER PTY LTD

1300 772 678

F1/7 Technology Circuit, Hallam, Victoria, Australia 3803

t-power.com.au

