



ROLECEV | Sinexcel

# ULTRACHARGE 160


Intelligent ultra-rapid EV charging station



Stocked in  
the UK by  
ROLECEV

## Amendments

Amendment Number	Details	Date
Ver 1, Rev 0	New Document.	Jan 2023
Ver 1, Rev 1	Update of wording throughout manual	Oct 2023

<b>Product:</b>	<b>UltraCharge 160 DC Charger</b>		
<b>Models:</b>	EVDC2010 – 60kW	EVDC2030 – 120kW	
	EVDC2020 – 80kW	EVDC2040 – 160kW	
<b>Document Type:</b>	Installation and Operation Manual		
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## Product Support

Updates to this manual will be made available on the Rolec website at <https://www.rolecserv.com/downloads-ev-charging>

Check the document date, and the **V**ersion and **R**evision number shown at the end of the Document Code (V01-R0, V01-R2, V02-R0, etc).

For installation assistance and advice, contact your preferred electrical installer.



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**IMPORTANT:**

This document is primarily intended for the following engineers:

- Technical Support Engineer
- Maintenance Engineer
- Engineering installation team

## Safety

This manual is specifically applicable to the **UltraCharge 160 DC Charger** and is provided as a guide to its installation.



**IMPORTANT:** Engineers must read and understand the content of this manual before installation and/or use of the product.

Engineers must be properly qualified and competent to do work on the equipment in accordance with the current legislation applicable in the geographical region of the installation.

- Rolec Services Ltd cannot accept any responsibility for improper actions performed by engineers or end users.
- The information provided in this manual must **ONLY** be used with the model(s) listed on page 1 of this manual.
- The information provided in this manual must **NOT** be used with any other product.
- The content of this manual may be updated by the manufacturer as required.
- Do **NOT** use the equipment for anything other than its intended purpose.
- Do **NOT** modify the equipment unless specifically instructed to do so by the manufacturer.
- Do **NOT** attempt to repair the equipment unless specifically instructed to do so by the manufacturer.
- To maintain electrical safety, the body enclosure of the product (access covers) must be secured in their correct location using the supplied fasteners and the seal must be sufficient to maintain the IP rating of the enclosure.
- Fasteners used to mount the product in its working location must be sufficient for the task and the specific mounting point.
- Damage to the product may render it unsafe. The product must be electrically isolated and **NOT** used until appropriate remedial action has been performed.
- Rolec does **NOT** recommend the use of charging extension cables or adapters and their use may invalidate the charge point warranty.

## Safety Advice Within this Manual

Rolec manuals use a system of warnings, cautions and notes.

- **WARNINGS** concern the safety of installers/end user and will be given before the detail/instructions in the manual.
- **CAUTIONS** concern the potential for damage to the equipment and will be given before the detail/instructions in the manual.
- **NOTES** are given to provide additional information and/or to highlight information of importance. They will be given either before or after the detail/instructions as appropriate and may use different wording (such as **IMPORTANT**) where emphasis is required.

Warnings, Cautions and Notes may be repeated several times as appropriate and may be preceded by a hazard symbol where appropriate.

## Disclaimer










Rolec shall not be liable for personal injury, product damage, failure or defects in scenarios such as but not limited to:

- Installation and/or maintenance performed by unlicensed/unqualified personnel.
- Lack of appropriate maintenance in accordance with the maintenance manual.
- Lack of appropriate maintenance in accordance with local specifications and standards.
- Failure to adequately record maintenance activities.
- Unauthorised changes to the design and/or functionality of the product.
- Product damage or failure caused intentionally or by negligence.
- Product damage or failure caused by improper/negligent actions performed by Installation and/or maintenance personnel.
- Product damage or failure caused by 'force majeure' (such as a bad weather, natural disasters, etc.).
- Maintenance personnel not wearing appropriate protective equipment.
- The failure (when requested) to return failed components to the manufacturer/supplier for analysis.

### **WARNING: Personal Injury and Equipment Damage**

- Before maintenance, make sure the power supply to the charger has been switched OFF.
- Make sure any faults have been eliminated and the electric circuit has been connected properly before initiating a power on test.
- Personnel who maintain the equipment, including operators, trained personnel and professional must, where required, possess the local national qualifications to work with high-voltages, work at heights, and to work in operations of special equipment.

## Equipment Warnings

Symbol	Meaning	Description
	<b>DANGER</b>	Parts of the system are at High Power during operation. Direct or indirect contact with these components can be fatal.
	<b>DANGER</b>	High voltage area may cause fire or electric shock. The construction of the area and conduits for cables must comply with national legislation. Only staff authorised to work with high AC and DC voltages can work in these areas.
	<b>DANGER</b>	It is forbidden to do maintenance work in bad weather.
	<b>DANGER</b>	It is forbidden to do maintenance work when the equipment is live.
	<b>WARNING</b>	Special tools must be used when working with high AC and DC voltages.
	<b>WARNING</b>	Wear the appropriate personal protective equipment (PPE).
	<b>CAUTION</b>	Read and understand the manual.
	<b>CAUTION</b>	Protective equipment and tools must be used. Make sure all protective items are removed from the equipment before applying power.
	<b>CAUTION</b>	Always follow national legislation.

- This product is high-power and high-voltage equipment. Construction and maintenance personnel must have the appropriate certification for their region to work with the equipment.
- All personnel must abide by the construction standards and safety regulations applicable in their region.
- The equipment has been developed, manufactured, checked and certified in accordance with the relevant safety standards. Therefore, if the instructions for the specified use and technical instructions for safety are followed, under normal circumstances the product will not cause property damage or endanger human health.
- The instructions contained in this manual must be strictly observed or safety may be compromised. Although this manual explains the relevant safety instructions, personnel must be aware of the type of hazards associated with their work and must take the appropriate precautions to prevent accidents and injury.
- In the event of problems and/or failures in the use of the equipment, the user shall directly consult the supplier/manufacturer.
- Any work performed by third parties without the approval of the supplier/manufacturer is done at their own risk to health and to the serviceability of the equipment. The supplier/manufacturer cannot be held responsible.

- Maintenance periods and tasks must be observed.
- A comprehensive record of maintenance must be available to support warranty claims.
- Maintenance personnel must use the appropriate protective equipment/clothing when engaging in work.
- All electrical power to the charge point must be OFF before engaging in any work.
- Even when all the switches of the charger have been disconnected, the copper bar of the charging line may still hold a dangerous voltage. During maintenance:
  - Turn off the upper switch of the charger.
  - Display a warning sign that maintenance is in progress.
  - Check whether there is a dangerous voltage with an instrument to ensure that the charger is completely disconnected from the power grid.
- It is strictly forbidden to do the maintenance work in a bad weather such as thunderstorms.
- It is strictly forbidden to do the power-on test before troubleshooting.
- After work, all doors, panels, etc must be securely closed.

## Safety Instructions for Use

- The UltraCharge 160 is an integrated charger to supply electricity to an EV either outdoor or indoor.
- The UltraCharge 160 is a high-power and high voltage electric power equipment. Installation and maintenance must only be done by appropriately qualified professionals.
- Follow local laws and regulations when installing, operating, or maintaining the equipment.
- Follow the procedures of installation, operation, and maintenance and make sure this document and accessories are available.
- Pay attention to the safety symbols on the equipment and all the safety instructions in this document.
- When operating equipment has encountered any problems or faults, please contact Rolec Technical Support directly.
- Unauthorized third-party maintenance will invalidate the warranty,
- Makes sure the unit is not installed near to potentially dangerous equipment or other hazards.
- Make sure that the space around the equipment cannot be blocked.

## Safety Instructions for Operation

- Before using for the first time, you must read this document carefully. Make sure the equipment is installed and commissioned according to the instructions in the installation manual.
- Do not perform unauthorized modifications to the product. The manufacturer will not be liable for any consequence caused by the violation of the safety operation regulations and design, production, and usage standards.
- Do not touch the EV charging connector or vehicle inlet, keep it dry and clean.

- Do not use this product if the power cord or connector shows any signs of damage.
- In case of any abnormal operation or conditions, press the emergency button immediately to turn off all electrical input and output.
- If the emergency button is pressed, the system operator should be informed. The charging station must not be restarted until the system operation technician resets the system.
- Make sure there is no debris or fluids in the EV charging connector or vehicle inlet.
- Do not attempt to connect or disconnect power cables when power is on.
- When performing maintenance, turn off the power switch, ensure that electrical connections are correct, and display warning notices in the area.
- Pay attention to the copper wire carries dangerous voltage of equipment, even when all circuit breakers of the charger are disconnected.
- Connect protective earth wire (PE) before connecting neutral line and phase line.
- After installation or maintenance, make sure that all doors are correctly secured.
- Adaptors or conversion adapters are not allowed be used.
- Extension cords are not allowed be used.



## Product Overview

### Short description

The UltraCharge 160 is an integrated DC fast charger that features high efficiency and flexible configuration. It supports the charging of two vehicles at the same time at same time and meets the charging demand of larger capacity and high endurance electric vehicles.

### Charger Models

Station Level	Connection Type	Power Allocation	Input Current	Input Power	Unit Colour	Product Code
60kW DC	1x CCS2 1x CHAdeMO	1x 60kW 1x 40kW / 1x20kW*	112A	67kVA	White	EVDC2010
80kW DC	2x CCS2	1x 80kW 2x 40kW*	150A	89kVA	White	EVDC2020
120kW DC	2x CCS2	1x 120kW 2x 60kW*	224A	133kVA	White	EVDC2030
160kW DC	2x CCS2	1x 160kW 2x 80kW*	299A	177kVA	White	EVDC2040

\*When 2 vehicles are charging simultaneously

### Product Views

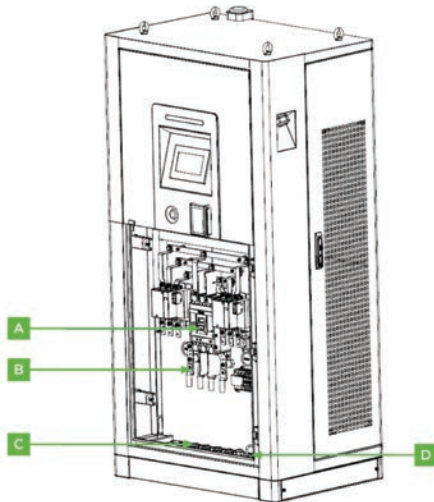


Figure 1 External View



- A Eye Bolts for Lifting
- B Status LED
- C Screen
- D Emergency Button
- E Door Handle/Lock
- F Charging Connector
- G Antenna
- H Payment Card Reader
- I Air Outlet

Figure 2 External Components



- A Main Circuit Breaker
- B AC Incoming Copper Bar
- C Inlet Hole
- D Grounding Bar

Figure 3 Internal Components

## Product Characteristics

- A variety of power configurations from 60kW to 160kW.
- Flexible power distribution – the dual connector model can automatically switch the power according to the vehicle demand, and the rapid charging of two vehicles at the same time.
- The constant current and constant power charging methods have the advantages of high charging efficiency, simple operation and reliable performance.
- Ultra-wide output voltage range, the highest output voltage can reach DC1000V. It can not only meet the low-voltage charging of small cars, but also meet the charging requirements of buses and high-voltage vehicles.
- With overload, short circuit, leakage, lightning protection, overcharge, over voltage, under voltage, reverse connection, over temperature and other multiple protection functions.
- The intelligent standby mode can effectively reduce the operation cost of customers in the whole project life cycle and improve the return rate of station charging.
- The cabinet shell is made of stainless steel with protection grade of IP55, which can be applied to various outdoor environments.

## Product Specifications

Category	Item	Parameter
<b>Input Characteristic</b>	Input	3P+N+PE
	Input Voltage	AC 380~400V
	Frequency	50/60Hz
	Power Factor	0.99
	THDi	<5%
<b>Output Characteristic</b>	Output Voltage	CCS2 : 200-1000 Vdc CHAdEMO: 200-500Vdc
	Rated power	60-160kW
	Max Current	CCS2 : 200A CHAdEMO: 125A & 200A
	Peak Efficiency	95% @half load
	Connector Type	IEC 62196
<b>Standards</b>	System Standards	IEC 61851
	Energy meter	High precision meter
<b>Others</b>	Number of connectors	1 (CCS Combo 2) or 2 (CCS combo 2, CHAdEMO optional – Two connectors can be used at the same time)
	Network Interface	LAN
	Size	W1000 x D700 x H2000 mm
	Protection level	IP55/IK10
	Gross Weight	535KG
	Net Weight	460KG
	Cable length	5m (Exposed cable length is 4.5m)
	Communication protocol	OCPP1.6J/2.0(Upgrade)
	Display Screen	7 inch
	Method of payment	QR Code/RFID/Mobile phone (Optional)
Language	English	
<b>Environmental conditions</b>	Cooling method	Forced air cooling
	Operating temperature	-25 ~ 65 °C (Derating operation over 45 °C)
	Humidity	5%-95%
	Altitude	≤2000m
<b>Protection</b>		Undervoltage & overvoltage protection DC overcurrent protection Over temperature protection Surge protection device Emergency stop button Optional tilt, flood and smoke detection Advanced dynamic power balancing Supports static load management (software configurable)

## Installation instructions

### Equipment Dimensions

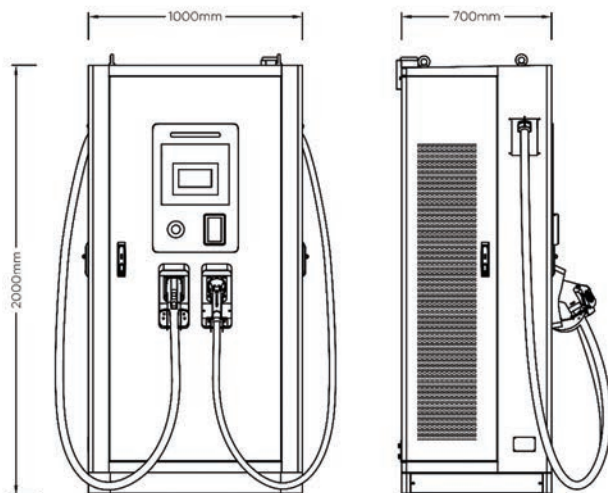


Figure 4 Outline and Dimension of Charger

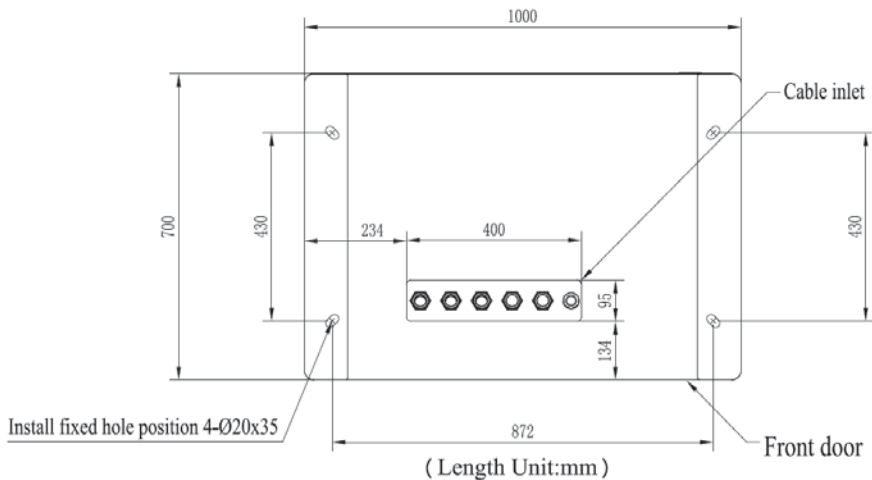


Figure 5 Hole Size of Charger Base

### Equipment Installation Requirements

1. The charger can be opened at the front, left and right-hand sides and charging connectors can be used from both sides.
2. Space should be reserved around. See **Figure 8**.
3. Installation should be onto a foundation of channel steel or concrete.
  - The cable shall be embedded in advance
  - The reserved length of Ethernet cable should not be less than 4000mm.
  - The reserved length of control signal cable should not be less than 1500mm.
  - The reserved length of power cable reserved shall be  $700\text{ mm} \pm 20\text{ mm}$ , and the protruding from the base through which 5 wires pass, shall be less than 30 mm, as shown in **Figure 9**.
4. The height of the installation foundation is recommended to be  $200\text{ mm} \pm 20\text{ mm}$ , and the vertical inclination of the installation shall not exceed  $5^\circ$ . See **Figure 9**.
5. Install 4 stainless steel M12 \* 80mm expansion bolts between the base and the cabinet. Note that the bolts need to be equipped with M12 stainless steel flat gasket.

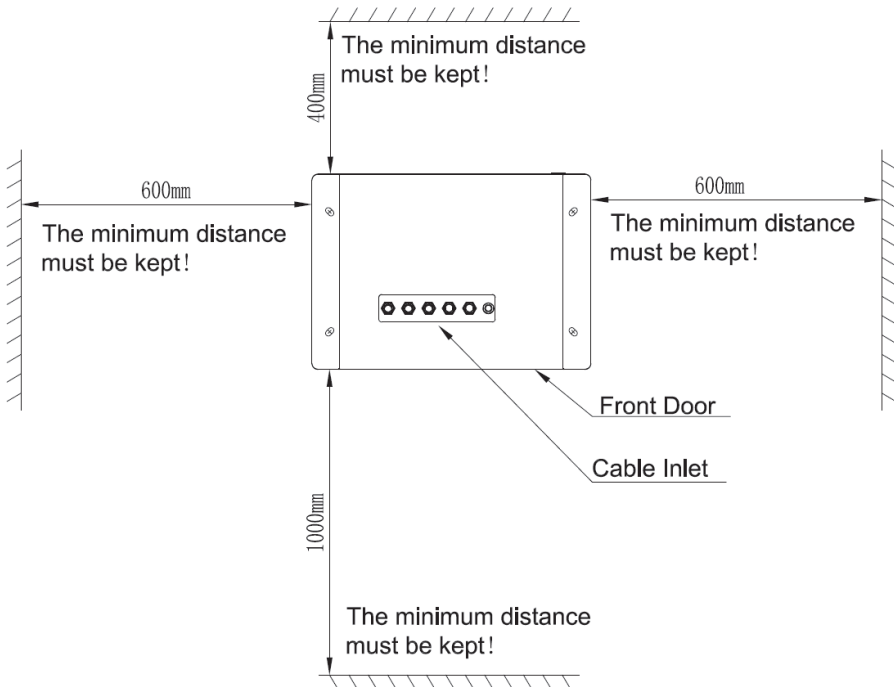


Figure 6 Requirements for Charger Placement

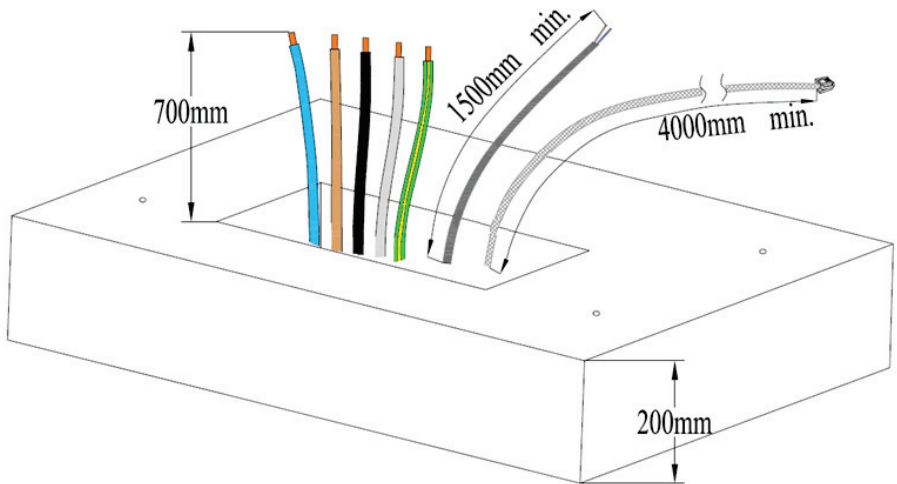


Figure 7 Base and Cable Reservation Requirements

## Distribution Cables

### Layout Requirements of Distribution Cables

1. The incoming cable(s) should be laid through a cable trench and should enter charge point enclosure through the inlet hole at the bottom of the charger.
2. The outdoor power cable shall be laid according to the power specification.
  - The AC cable must be sufficiently rated for load of the charger.
  - The power cable and the signal cable must be separated.
  - The signal cable should be put through the tube separately to avoid the loss and interference of the communication signal.
3. The cable must NOT be laid in an area where damage can be easily sustained due to mechanical factors, corrosive materials, humidity, strong magnetic fields and electrostatic field interference. If necessary, apply appropriate protection or shielding measures.
4. The AC input cable starts from the user's distribution switch and connects to the copper bar of the charger's inlet cable switch. Protection devices shall be provided at the user's power distribution.
5. The colour of AC input cable is brown (L1), black (L2), grey (L3), blue (n), yellow green (PE).
  - If the input cable has only one colour, cable number identification labels/markers must be applied.

### Requirements for Distribution Cables

1. Cable laying shall be free from external force, distortion and damage of the insulation layer.
2. Do NOT twist, flatten, break or abrade the protective layer.
3. The protective pipe must be cleaned before the cable passes through and the wire must not be damaged.
4. The cable arrangement shall be tidy. The binding should be neat and should not be crossed.
5. Sufficient allowance must be allowed for each wire of the cable, and the bending degree shall be consistent.
6. Crimp the terminal of the cable head.
7. When crimping the lug of the inlet cable...
  - the heat shrinkable tube should be set between the cable and the lug,
  - the inside and outside of the tube should be smooth without damage and cracking.
  - Before setting the heat shrinkable tube, make sure all debris is removed from the cable such as burrs and iron filings.
8. The colour of the tube shall be in accordance with the phase sequence.
  - When the tube is heat shrinkable, do not allow excessive heat/flame to enter the inside of the cabinet as the tube is shrinking.
  - The finished appearance of heat shrinkable tubing should be flat, smooth, uniform with no holes or cracks.
9. Take care to correctly arrange the wiring sequence if crimping an RJ45 connector Ethernet cable.

### Cable for AC Input (Recommended)

Capacity (kW)	Capacity of superior distribution switch	Screw specification (diameter: mm)	Cable terminal
60kW	160A	L1/L2/L3/ N/PE : M8	L1/L2/L3/N/PE: DT35-8
80kW	200A	L1/L2/L3/ N/PE : M8	L1/L2/L3/N/PE: DT50-8
120kW	315A	L1/L2/L3/ N/PE : M12	L1/L2/L3/N/PE: DT120-12
160kW	400A	L1/L2/L3/ N/PE : M12	L1/L2/L3/N/PE: DT150-12



### Internal Wiring

The internal input cables are **N**, **L1**, **L2**, **L3**, **PE**, **Ctrl** and **Eth** from left to right.

The '**Ctrl**' indicates a control signal cable and the '**Eth**' indicates a ethernet cable.

The cabinet grounding is divided into two parts,

- Grounding bar inside the cabinet
- Grounding of cabinet shell.

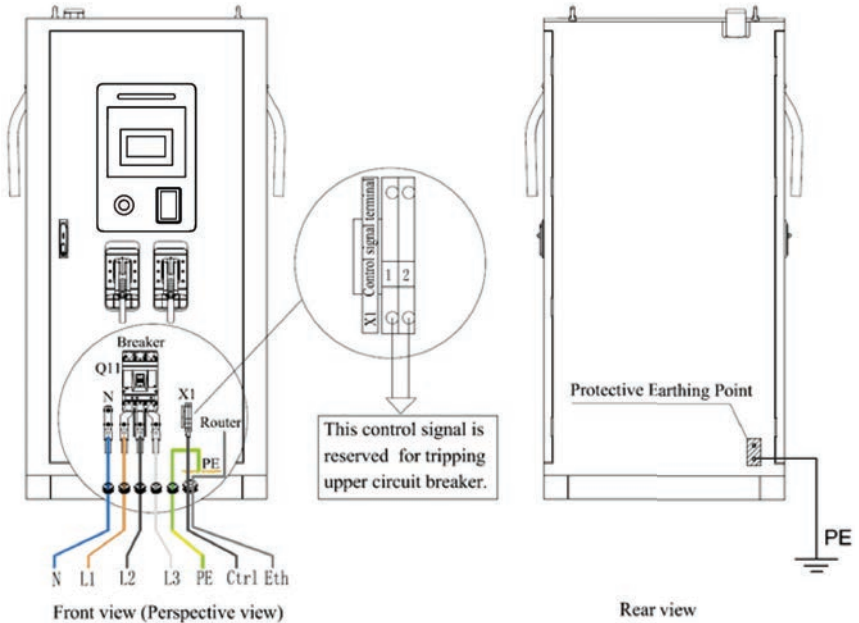


Figure 8 Internal Wiring

## Installation

### Tools required

- Claw hammer
- Cross screwdriver
- Step ladder
- Electric drill
- Equipped with  $\phi$  16mm drill bit
- Insulating gloves
- Cable clipper
- Insulation shoes
- Hydraulic clamp
- Adjustable wrench
- Security Hex wrench
- Craft knife

### Unpacking the Outer Package of the Cabinet

1. Straighten the metal tabs on the top of the packing material and remove the upper panel.

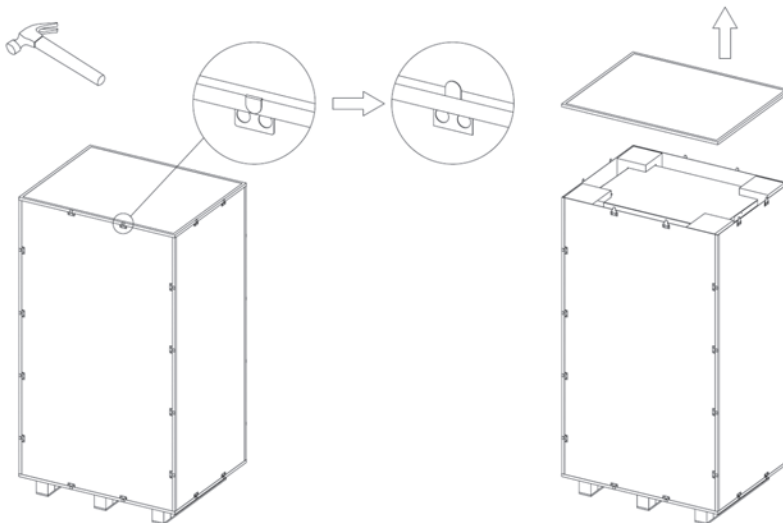


Figure 9 Unpacking 1

2. Straighten all metal tabs then remove the surrounding panels,

- Carefully cut the plastic bags wrapped around the cabinet and remove the PE bags and foam

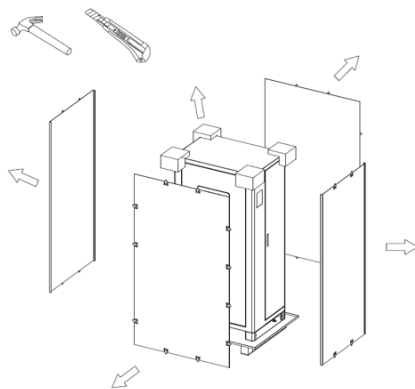


Figure 10 Unpacking 2

- Remove the four M12 bolts around the base

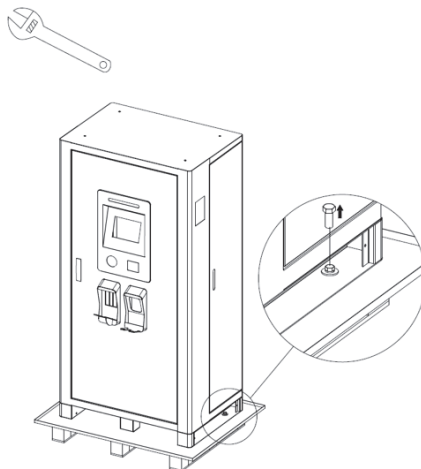
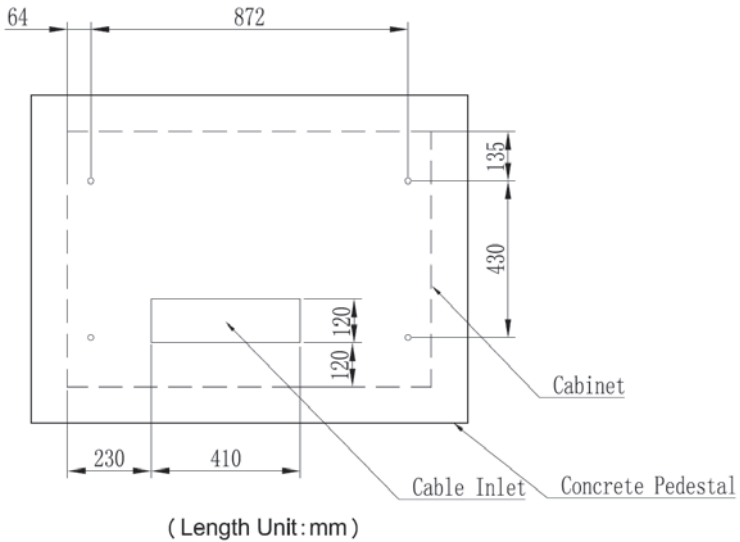


Figure 11 Unpacking 3

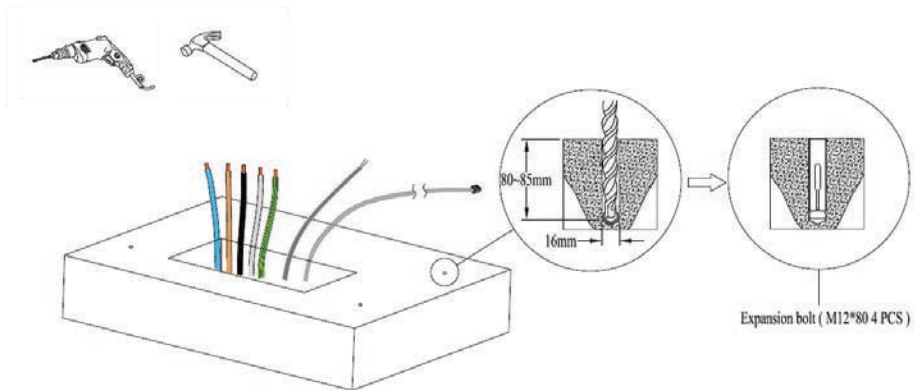
**Foundation Drilling**

- The hole size is shown below:



**Figure 12 Foundation Preparation 1**

1. Drill four mounting holes with a diameter of 16 mm and a depth of 80-85 mm on the cement mounting base.
2. Knock four M12 \* 80 expansion bolts into the holes.



**Figure 13 Foundation Preparation 2**

## Site the Charger

1. Use forklift to transport the cabinet to the installation base and use the crane to lift the cabinet.

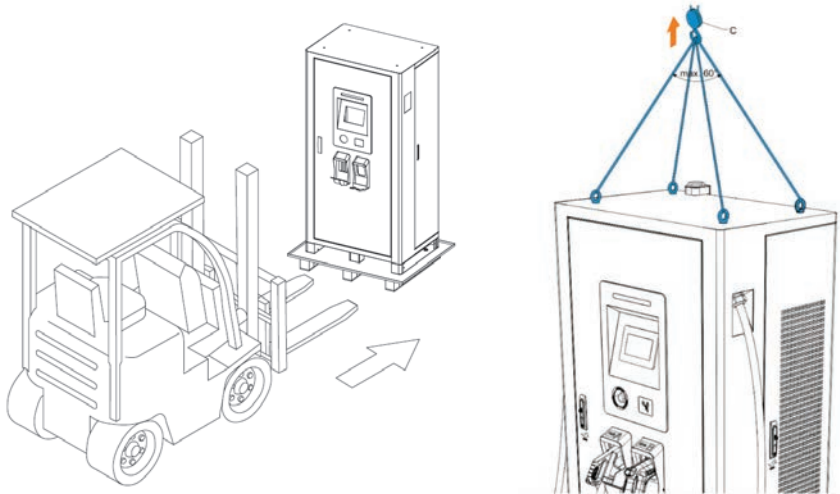


Figure 14 Site Location 1

2. Suspend the cabinet above the cement base, open the front door of the cabinet, and extend the embedded cable from the bottom of the cabinet through the inlet hole.
3. At this time, slowly lower the cabinet and pull the remaining cables out from the front door until the cabinet is completely placed on the base.

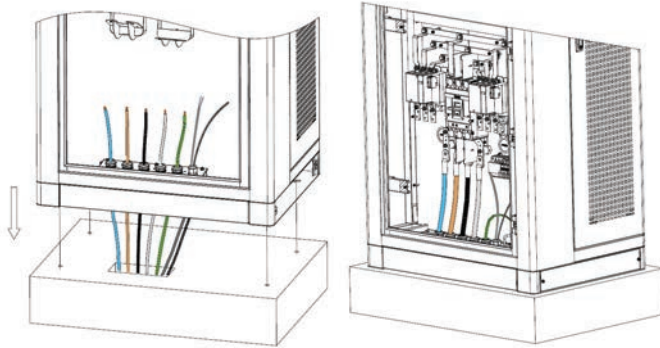


Figure 15 Site Location 2

**NOTES:**

- Match the mounting hole of the cabinet base with the hole on the cement base.
- The inlet cable sealing plate of the cabinet can be removed.  
To remove the sealing plate, pull the cables into the cabinet through the cable inlet hole,
- Install the sealing plate and pass the cables through the cable gland
- Secure the sealing plate to ensure airtightness. The inlet cable sealing plate is shown in the image below.
- Do NOT to damage the charging cable.

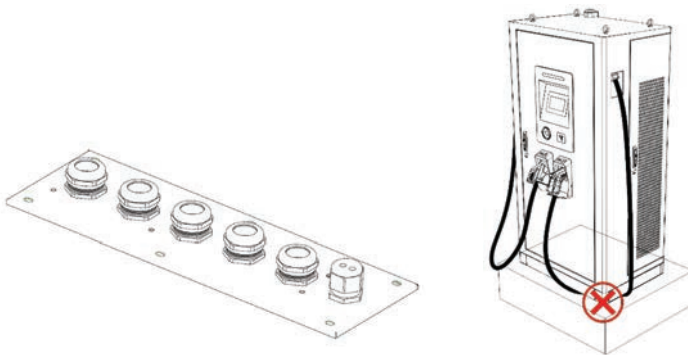


Figure 16 Site Location 3

4. Install M12 \* 80 (4 pcs) expansion bolts on the drilled installation holes around the base and tighten the bolts to ensure the cabinet is fixed securely.

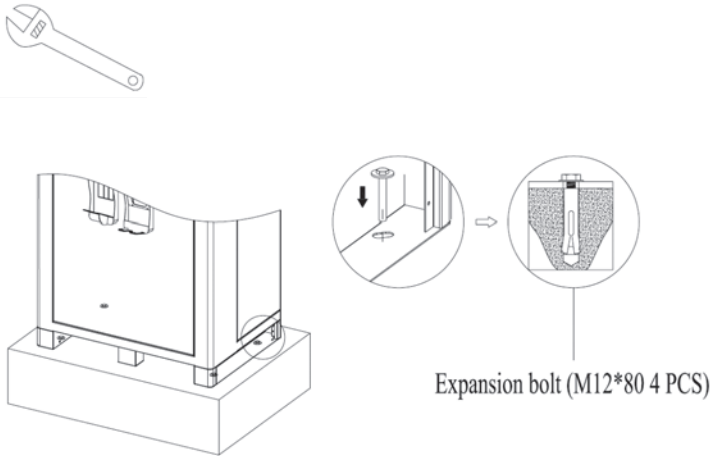


Figure 17 Site Location 4

5. Install the front and rear sealing plates of the base.

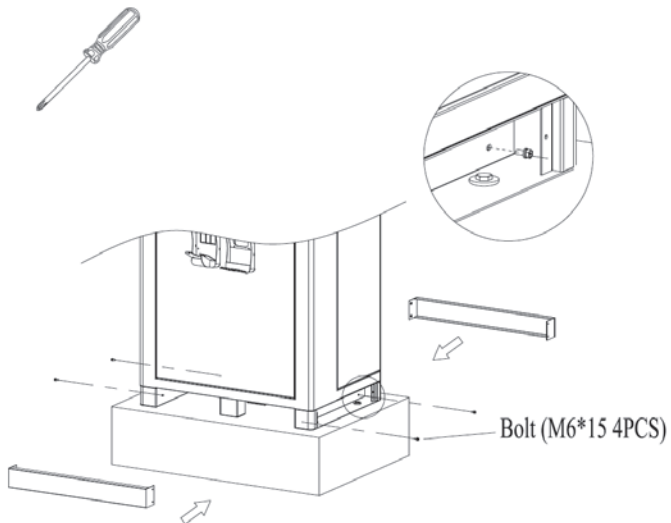


Figure 18 Site Location 5

**NOTE:** Install the front and rear sealing plates in the direction of the arrow, and then install the M6 \* 15 screws from the left and right sides.

6. Install the left and right sealing plates.

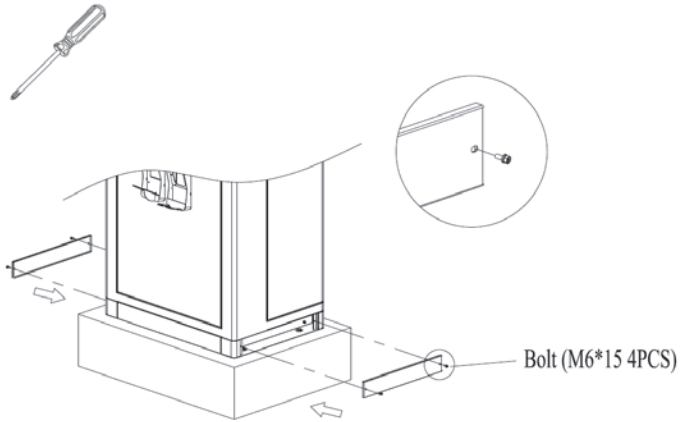


Figure 19 Site Location 6



## Inspection After Installation

### Stability

After the pedestal is installed, shake the cabinet from different directions.

There should be no obvious loosening and shaking.

### Clean Up

- Dispose of all transportation and packaging materials in accordance with local regulations.
- Clean up the sundries inside and around the cabinet, such as small section of cable, binding tape, screw / nut, desiccant, etc. Do not leave installation tools on site or in the cabinet (record the type and quantity of tools to prevent omission).
- Wipe the insulation with anti-static cloth. Do not use any corrosive solvent.

### Inspection

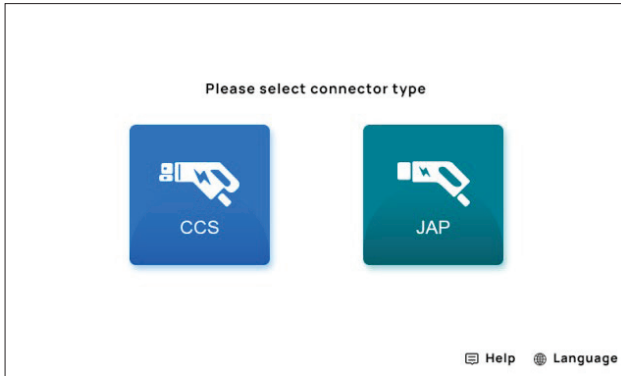
- Make sure the base is fixed and sealed.
- Make sure the internal components of the equipment are tight and secure.
- Make sure the electrical connection and wiring are correct and complete, whether the connection is reliable, and whether the grounding is reliable.
- Make sure all accessible cable terminal(s) are secure.
- Make sure the cable is not broken, damaged or scratched.
- Make sure the protection level of the equipment meets the requirements, especially the cable entrance at the bottom of the pedestal.
- Check the appearance, markings, label integrity, cleanliness.
- Check the installation of the equipment according to the foundation installation drawing.

## Operation Interface

### Charging Process

**NOTE:** When the charger is in standby mode, the screen is in the energy-saving mode. Before operation, touch the screen with your finger to light up the screen!

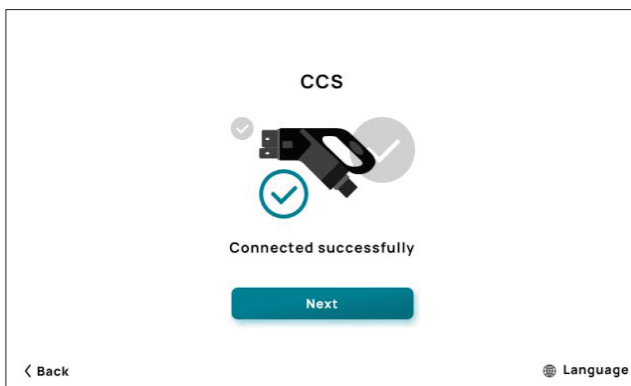
### Standby Interface



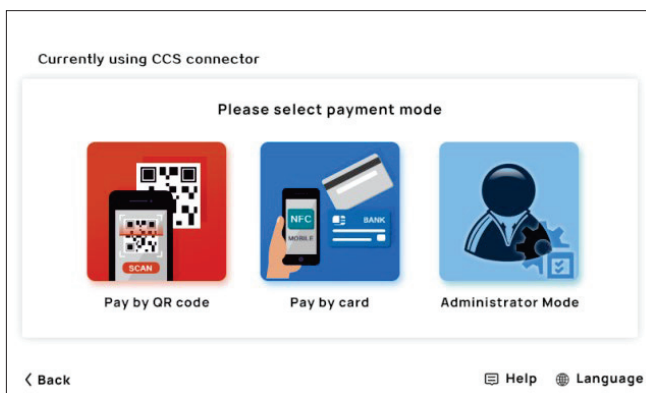
1. Select CCS connector or CHAdeMO (JAP) connector according to the socket type of the car. After selection the process is the same.



**Tip:** Connecting the connector to the car will jump to the connector insertion interface.

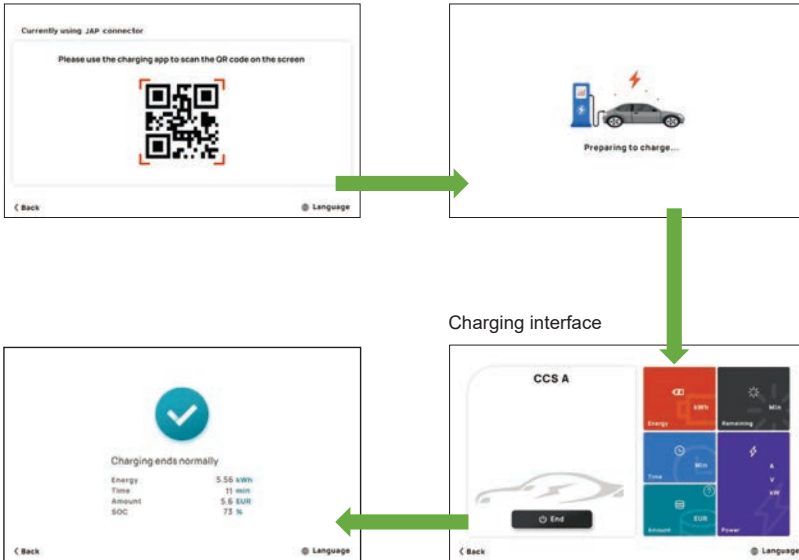


2. Click **Next** to enter the interface for charging mode selection.
3. Click the payment method you want to use to enter the next charging operation.



## Code Scanning Charging Interface Process

1. Scan the QR to enter the start charging interface.

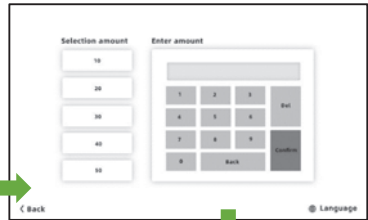


2. Click "End" to end charging and enter the settlement interface.

**Tip:** After charging, click the **Back** button. If the other charging connector is in charging state, it will jump to the charging interface of the other charging connector, otherwise it will jump to the main interface.

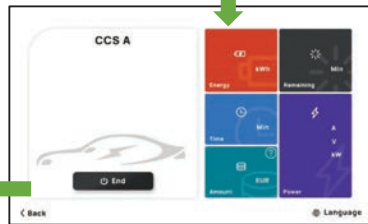
## Interface Process of Pay by Card Charging

1. Select or enter the precharge amount to enter the card swiping interface.



Charging interface.

Pay by card according to the interface prompt to enter the charging start interface.



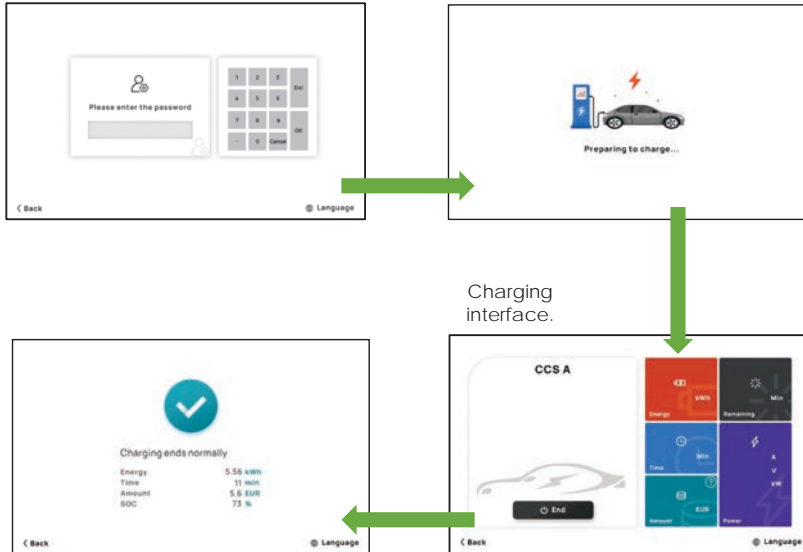
Click **End** to end charging and enter the pay by card interface.



Enter the settlement interface after paying by card according to the interface prompt.

## Password charging interface process

1. Enter the password to enter the start charging interface.



2. Click "End" to end charging and enter the pay interface.

**Tip:** Click the input box to display a small keyboard. Enter the complete password through the keyboard and click **OK** to verify the password.

After passing the verification, it will jump to the password 'Start Charging' interface (password setting: administrator > Settings > TCU > function > offline charging password).

## Simple Troubleshooting

Refer to the maintenance manual for further details.

Alarm or Fault	Processing Method
Lightning protection failure	<ul style="list-style-type: none"> <li>• Check the status of lightning protection.</li> <li>• If the visual window of lightning protection is red, it means it is damaged, please replace it.</li> </ul>
Emergency stop fault	<ul style="list-style-type: none"> <li>• Check the position of the emergency stop button.</li> <li>• If the button is depressed, make sure the fault is corrected.</li> <li>• If the fault has been corrected, pull up the emergency stop button.</li> </ul>
Over temperature protection of air outlet	<ul style="list-style-type: none"> <li>• Make sure the air ducts are not blocked.</li> <li>• Make sure the dust screen is clean.</li> <li>• Make sure the air outlet fan works normally and replace if required.</li> </ul>
Access protection	<ul style="list-style-type: none"> <li>• Make sure the cabinet door is completely closed and secure.</li> <li>• If the alarm still sounds, check the status of the micro switch and replace it if required.</li> </ul>
Charging module failure	<ul style="list-style-type: none"> <li>• Check the module fault code, confirm the fault type and find the fault cause.</li> <li>• Pull out the fault module and replace the spare module.</li> <li>• Check whether the alarm light of RCD device is on. If the lamp is on, it indicates that the system has leakage fault,</li> </ul>
RCD action	<ul style="list-style-type: none"> <li>• Check whether there is insulation fault in the circuit at the back end of the RCD;</li> <li>• Check whether the casing is reliably grounded.</li> </ul>



**WARNING:** To prevent personal electric shock, all switches of the equipment and front-end power distribution switch of the equipment **MUST** be disconnected during fault detection and treatment, and protective measures shall be taken.

## After-Sales Service

If you have any questions, please contact the equipment supplier.

Before contacting the equipment supplier:

- Check the troubleshooting section.
- Please record the model and serial number of the equipment (name plate of the equipment) and the failure time.



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The latest version of this publication can be downloaded at <https://www.rolceserv.com/downloads-ev-charging>

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EVUCM-V01-R1 UltraCharge 160 Installation & Operation Manual



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