Wall-Mounted EV AC Charging Station

Quick Start Guide

About this Document

- This Document includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only.
- The information contained in the Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (https://www.hikvision.com). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
- Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

About this Product

This product can only enjoy the aftersales service support in the country or region where the purchase is made.

Acknowledgment of Intellectual Property Rights

- Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
- Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
- HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
- Other trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

- TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.
- YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY

RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBERATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

- YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED ENDUSES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUELCYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.
- IN THE EVENT OF ANY CONFLICTS BETWEEN THIS DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.

© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 **Note**	Provides additional information to emphasize or supplement important points of the main text.
 **Caution**	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 **Danger**	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

TABLE OF CONTENTS

Chapter 1 Introduction 1
1.1 Product Introduction 1
1.2 Product Overview 1
Chapter 2 Installation 3
2.1 Packing List 3
2.2 Preparation 4
2.2.1 Installation Environment 4
2.2.2 Installation Requirements 4
2.2.3 Safety Precautions 5
2.2.4 Tools 6
2.3 Lay Cables 6
2.4 Install Device 6
2.5 Wiring 9
2.6 Start Up 10
Chapter 3 Detailed Configuration 11
Chapter 4 FAQs 12

Chapter 1 Introduction

1.1 Product Introduction

The EV AC charging station (hereinafter referred to as "device") is a dedicated power supply device that provides AC power for electric vehicles with on-board chargers using charging mode 3 and connection method C.

The device can be installed in personal parking spaces for home use, providing daily charging services for electric vehicles that meet the requirements.

1.2 Product Overview

The device appearance is shown as below.

Note

The device appearance may vary with device model. The actual device shall prevail.

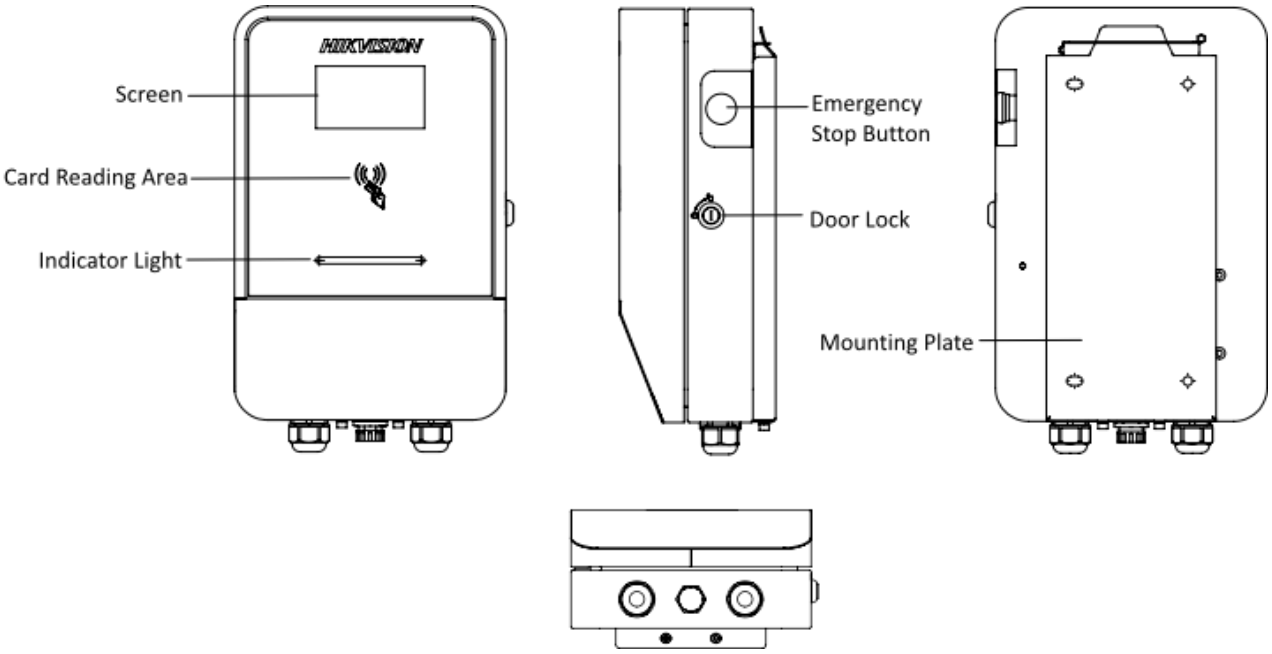


Figure 1-1 Device Appearance

Table 1-1 Appearance Description

Name	Description
Screen	For screen display.
Card Reading Area	Swipe card to start or stop charging in charging by card mode.
Indicator Light	● Solid blue indicates the device is idle. ● Solid green indicates charging is completed. ● Green breathing indicates the device is charging. ● Yellow breathing indicates the charger is plugged in but not charging. ● Purple breathing indicates reserved charging countdown. ● Red flashing indicates device failure.
Mounting Plate	Used to fix the device to the wall.
Emergency Stop Button	Press the button to stop charging when an exception occurs. Rotate the button clockwise to restore the button.
Door Lock	Use the key to unlock the front door for wiring.

Chapter 2 Installation

2.1 Packing List

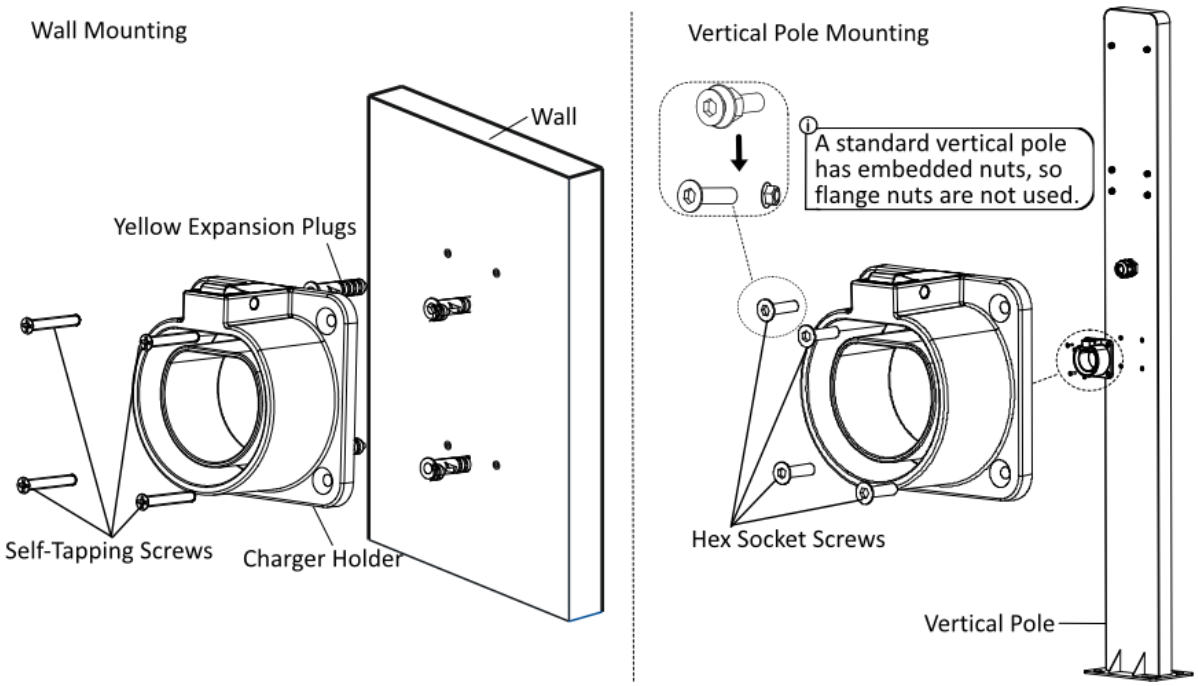
When you receive the product, check whether there is obvious damage on the product package and its appearance first. Then open the package and check whether all the accessories are included. If something loses, contact us or our supplier.

Table 2-1 Packing List

No.	Name	Quantity
1	EV AC Charging Station	1
2	RFID Card	2
3	Wall Mounting Plate	1
4	Screw Package	2
5	Regulatory Complicance and Safety Information	1
6	External Charger Holder	1
7	Key	1

Note

- The appearance and accessories may vary with device model. The actual device shall prevail.
- The screw package includes M4 × 30 self-tapping screws (with M6 × 30 yellow expansion plugs) for wall mounting, and M4 × 16 hex socket screws for pole mounting of the charger holder.



2.2 Preparation

2.2.1 Installation Environment

- Install the device on non-combustible materials such as concrete, otherwise a fire may occur.
- Install the device in an area free from conductive dust, gas, or vapor that can damage insulation.
- Install the device in an area free from severe vibration and shock. For good ventilation, install the device vertically.
- Install the device in a well-ventilated area, away from direct sunlight, wind, and rain.
- Do not install the device in areas containing explosive gases, otherwise an explosion may occur.
- Flammable and explosive materials should not be placed near the device, otherwise an explosion may occur.
- The installation base should be higher than the ground, and drainage ditches should be made around the device, otherwise the device may be damaged.

2.2.2 Installation Requirements

Safety protection must be performed when you install the device.

- Installation and wiring must be carried out by personnel with professional qualifications, otherwise electric shock may occur.
- Be sure to disconnect input power supply before wiring, otherwise electric shock may occur.
- The grounding terminal of the device must be grounded, otherwise electric shock may occur.
- The power cords of the device must be firmly connected, otherwise the device may be damaged.
- Do not leave bolts, washers, or metal parts inside the device, otherwise an explosion or fire may occur.
- The main circuit terminals of the device should be securely connected to the wiring terminals, otherwise it may cause property loss.
- The exposed parts of the cable terminals must be wrapped with insulating tape, otherwise it may cause fires or property loss.
- It is recommended to avoid installing the device in extreme weathers. Low or high temperatures may affect the installation effect due to thermal expansion and contraction.
- The minimum space requirements for wall mounting is shown in the figure below.

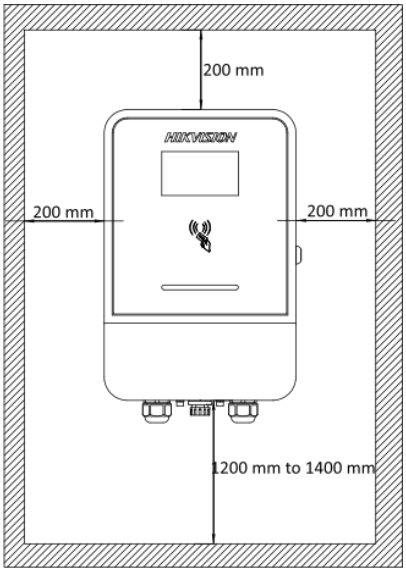


Figure 2-1 Minimum Space Requirements

2.2.3 Safety Precautions

- Forced charging is strictly prohibited when there is a malfunction of the EV or the device.
- In case of any emergency (e.g. fire, smoke, abnormal noise, water ingress, etc.), press the red emergency stop button on the device, and move away from it immediately to ensure personal safety.
- Do not charge if the charger or cables are defective, cracked, worn, broken, or exposed. For any issues, contact the manufacturer in time.
- The EV should be charged only when it is stationary and the engine is off.

- Do not charge in rainy days or thunderstorms.
- When transporting or moving the device, pay attention to the following for safety:
  - This product is an electrical device. Handle with care to avoid severe vibrations and shocks.
  - The front panel of the device is made of glass and should not be subjected to stress during handling.
  - Do not move the device by dragging the charging connector and charging cables.

2.2.4 Tools

Prepare the following tools before installation.

Table 2-2 Tools List

No.	Name	Description
1	Multimeter	To check electrical connections and measure voltage.
2	Electric Drill	To drill holes on the wall.
3	Wrench	To tighten bolts.
4	Diagonal Plier	To cut cables.
5	Wire Stripper	To strip cables.
6	Crimping Plier	To press the cable terminals.
7	Phillips Screwdriver	To tighten screws.

2.3 Lay Cables

Lay the cables that need to be connected, including the network cable, power cord, etc.

Caution

Check the power supply voltage to prevent any device damage caused by inconsistent voltage levels.

2.4 Install Device

You can install the device on the wall or on a vertical pole. The following takes wall mounting as an example.

Note

For pole mounting, prepare the vertical pole separately.

Step 1 Drill four holes with the diameter of 6 mm and the depth of 55 mm at the appropriate height on the wall, and the hole spacing is shown in the figure.

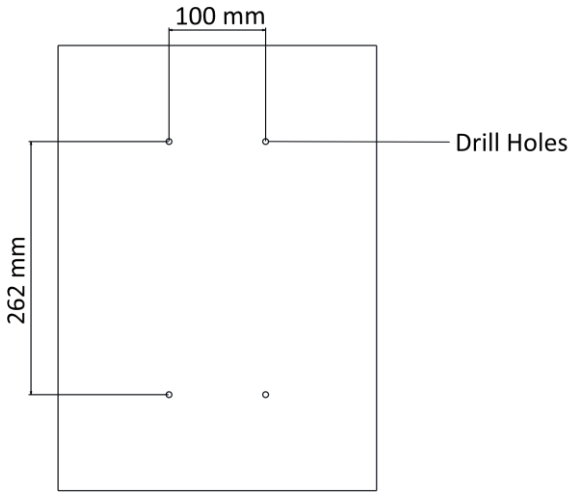


Figure 2-4 Drill Holes

Step 2 Use four expansion bolts to fix the wall mounting plate to the wall.

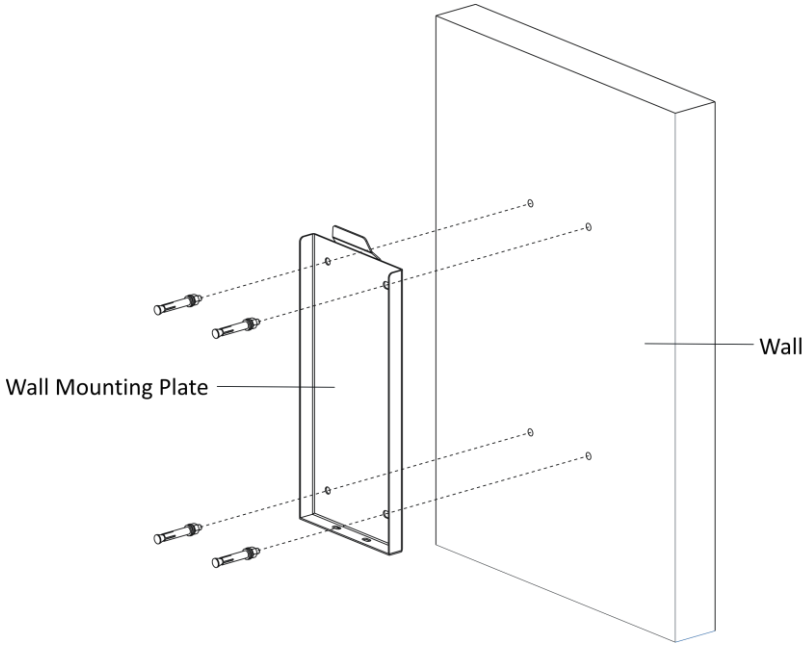


Figure 2-5 Fix Wall Mounting Plate

Step 3 Hang the device to the wall mounting plate, ensuring the slot on the back of the device is stuck with the mounting plate.

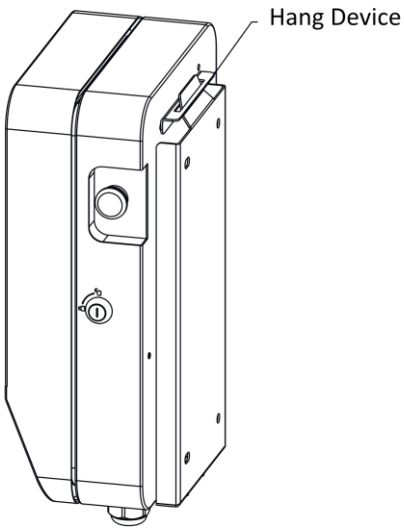


Figure 2-6 Hang Device

Step 4 Align the installation holes of the device at the bottom with the plate holes, and fix them with two M5 × 20 screws.

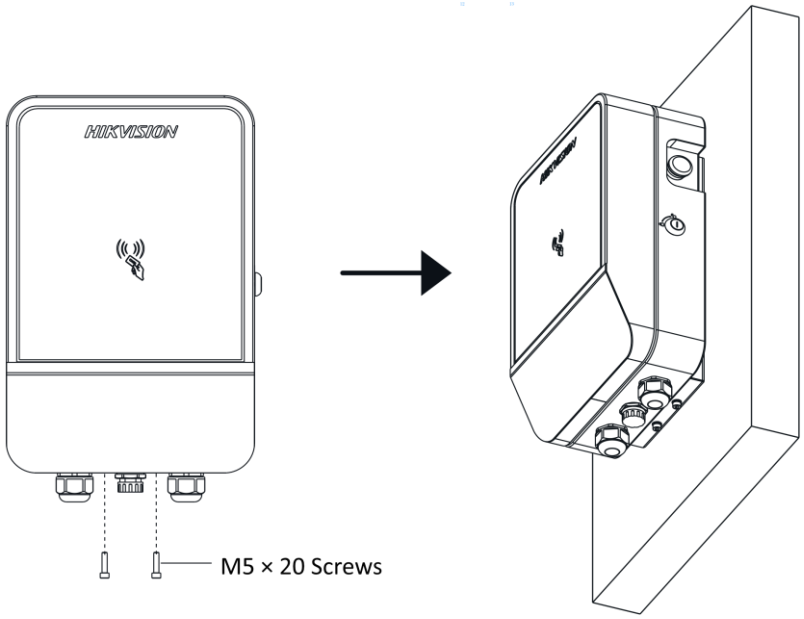


Figure 2-7 Fix Device

Caution

- If the charging station is malfunctioning, contact the manufacturer or a nearby service center. Do not attempt to disassemble or repair it by yourself.
- For maintenance or inspections, be sure to disconnect the power from the main distribution panel.

2.5 Wiring

Connect the power cable to the device according to the steps below.

Before you start

Cut off the power before you install the device.

Step 1 Use the key to unlock the front door clockwise, and then open the front door.

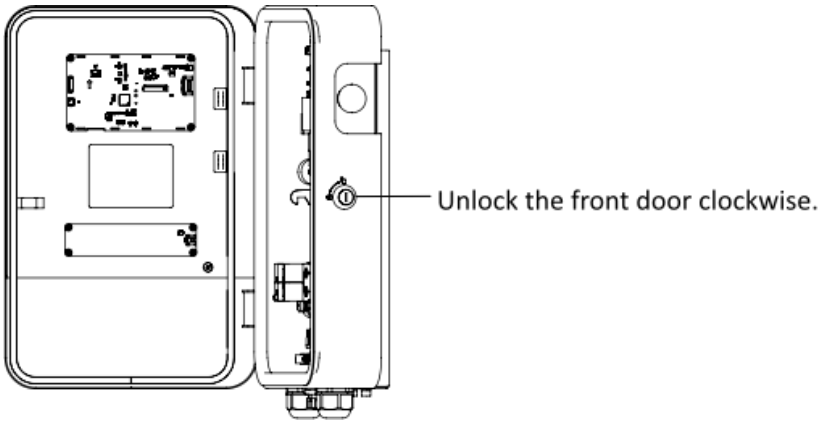


Figure 2-8 Open Front Door

Step 2 Lead the laid cables from the cable inlet, and connect the PE, L, and N cables to the power interface of the device.

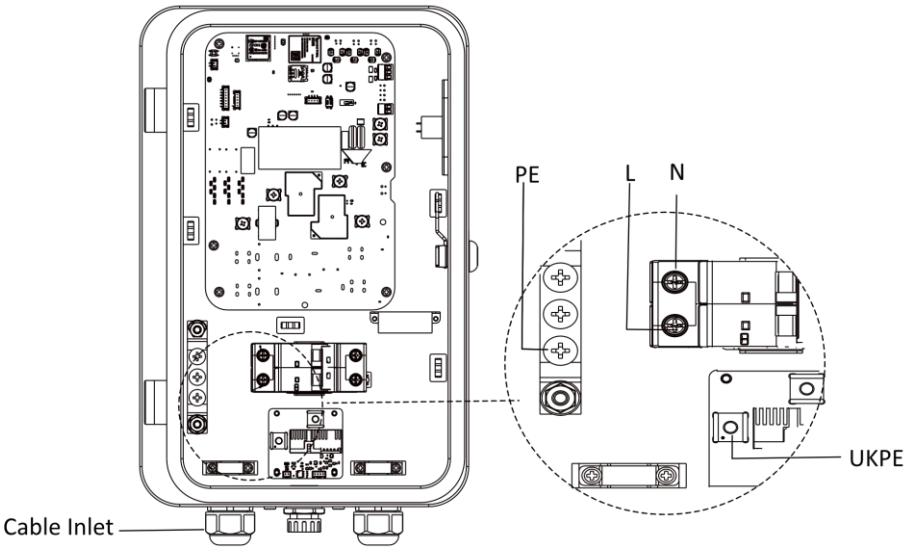


Figure 2-9 Connect Power Cords

Note

Connect the UKPE, L, and N cables to the power interface of the device when using it in the United Kingdom.

Step 3 Close the front door, and lock it with the key.

2.6 Start Up

After the installation and wiring is completed correctly, connect the power supply to start it up.

Note

If the device fails to start up, check if the device cables are properly connected. If the cable connection is correct, check the cable routing.

Chapter 3 Detailed Configuration

Scan the QR code below to get the user manual for detailed configuration.



Figure 3-1 User Manual QR Code

Chapter 4 FAQs

The device is protected automatically in the event of malfunctions. Common faults and the corresponding solutions are listed below.

Fault	Display	Solution
Screen Off	NotWorking	● Check if the power supply is normal. ● Check if the branch breaker is tripped, close it after troubleshooting. ● Check the cable connection. If the cable falls off, reconnect it tightly.
CP Fault	EVCommunicationError	Check if the charger is correctly connected to the EV. Plug in again for charging.
Emergency Stop Fault	EmergencyStop	Check if the device is working normally. Rotate the emergency stop button to release.
Low Voltage Fault	UnderVoltage	Check if the input cable and main grid is properly connected, and if the grid voltage is normal.
High Voltage Fault	OverVoltage	Check if the input cable is correctly connected, and check if the grid voltage is normal.
High Temperature Fault	HighTemperature	Check if the device is covered or installed in a high temperature environment.
Meter Fault	PowerMeterFailure	Turn off and restart the device.
Leakage Fault	LeakageRcmuError	Check if the charger and its cables are damaged or damp. Restore after unplugging the charger.
Overcurrent Fault	OverCurrentFailure	Check if the charger is correctly connected to the EV, and check if the EV on-board charger is normal.
EV Diode Fault	EVCommunicationError	The EV does not meet the standard and cannot be charged.
Relay Bonding Fault	PowerSwitchFailure	Device damaged. Return it for repair.
Grounding Fault	GroundFailure	Device not grounded. Test the circuit.



UD40465B-A