Wall-Mounted EV AC Charging Station

Quick Start Guide

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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 3
2.2.1 Installation Environment 3
2.2.2 Installation Requirements 4
2.2.3 Safety Precautions 4
2.2.4 Tools 5
2.3 Lay Cables 5
2.4 Install Device 6
2.5 Wiring 8
2.6 Start Up 8
Chapter 3 Detailed Configuration 9

Chapter 1 Introduction

1.1 Product Introduction

The Wall-Mounted 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 B.

The device can be installed in various places such as public parking lots, residential parking lots, enterprise and institution parking lots, parking lots along tourist routes, hotel parking lots, etc., 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.

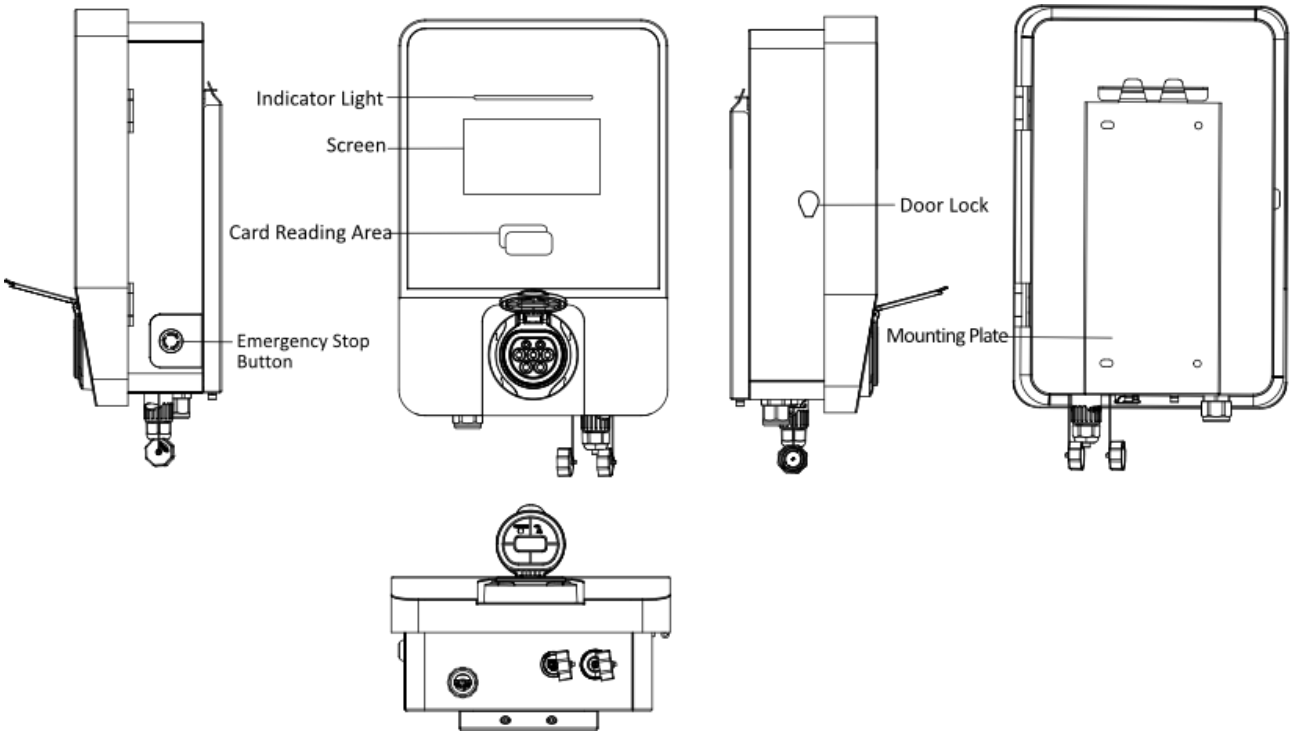


Figure 1-1 Device Appearance

Table 1-1 Appearance Description

Name	Description
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. ● Red flashing indicates device failure or system upgrade in progress.
Screen	For screen display.
Card Reading Area	Swipe card to start or stop charging in charging by card mode.
Emergency Stop Button	Press the button to stop charging when an exception occurs. Rotate the button clockwise to restore the button.
Mounting Plate	Used to fix the device to the wall.
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.

Note

The appearance and accessories may vary with device model. Please refer to the actual device.

Table 2-1 Packing List

No.	Name	Quantity
1	EV AC Charging Station	1
2	RFID Cards	2
3	Wall Mounting Plate (including screws)	1
4	Regulatory Complicance and Safety Information	1
5	Key	1

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.

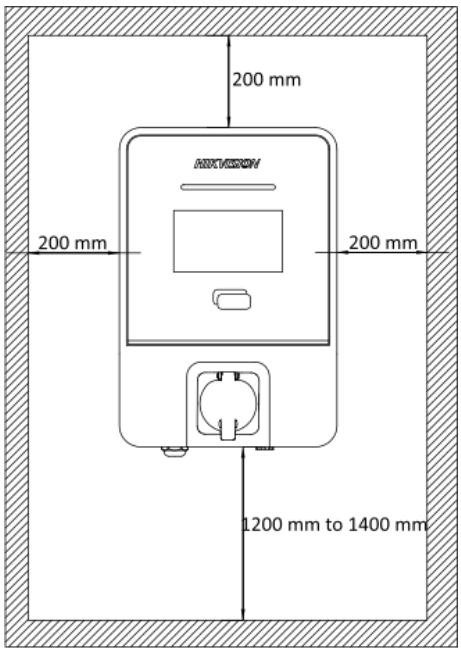


Figure 2-1 Minimum Space Requirements

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

Choose a suitable position on the wall to install the device.

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.

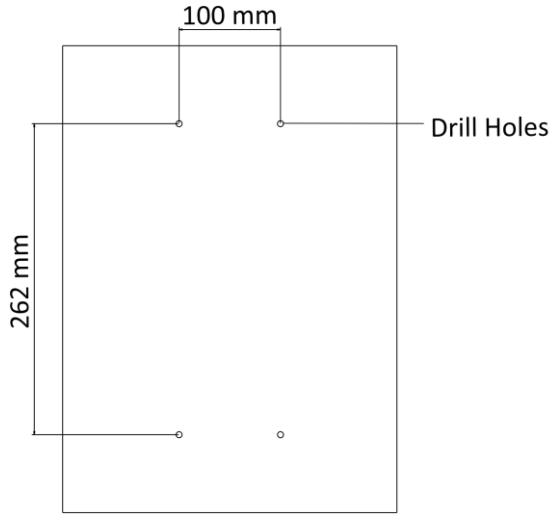


Figure 2-4 Drill Holes

Step 2 Fix the wall mounting plate to the wall with four expansion bolts.

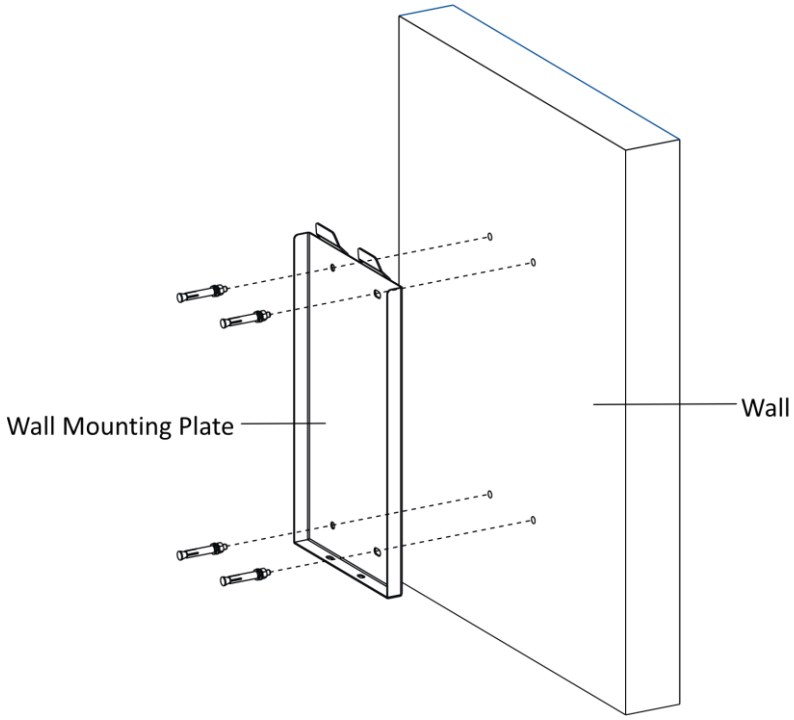


Figure 2-5 Fix Wall Mounting Plate

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.

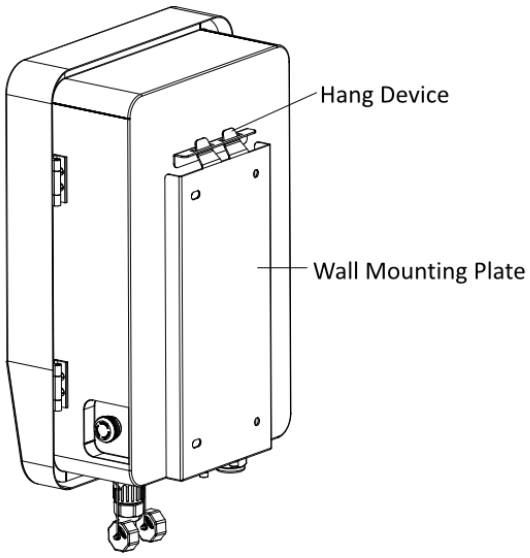


Figure 2-6 Hang Device

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

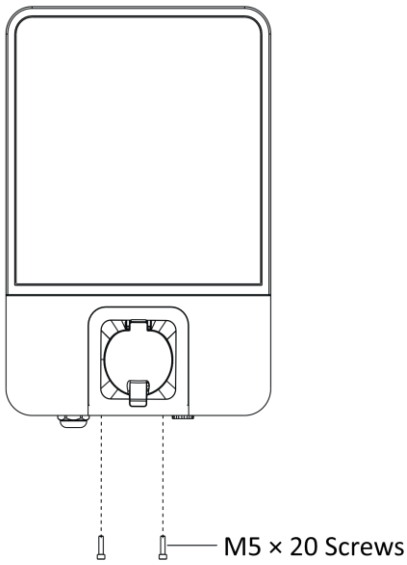


Figure 2-7 Fix Device

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.

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.

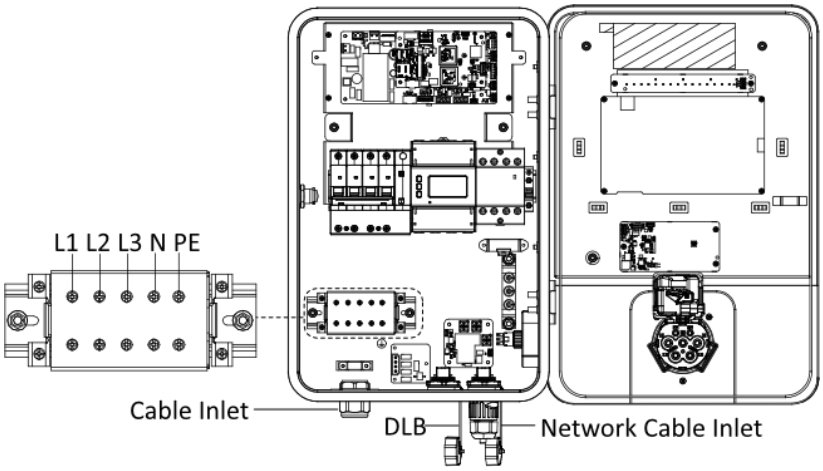


Figure 2-8 Connect Power Cords

Step 3 (Optional) Connect the DLB and network cable as needed.

Step 4 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



UD44493B