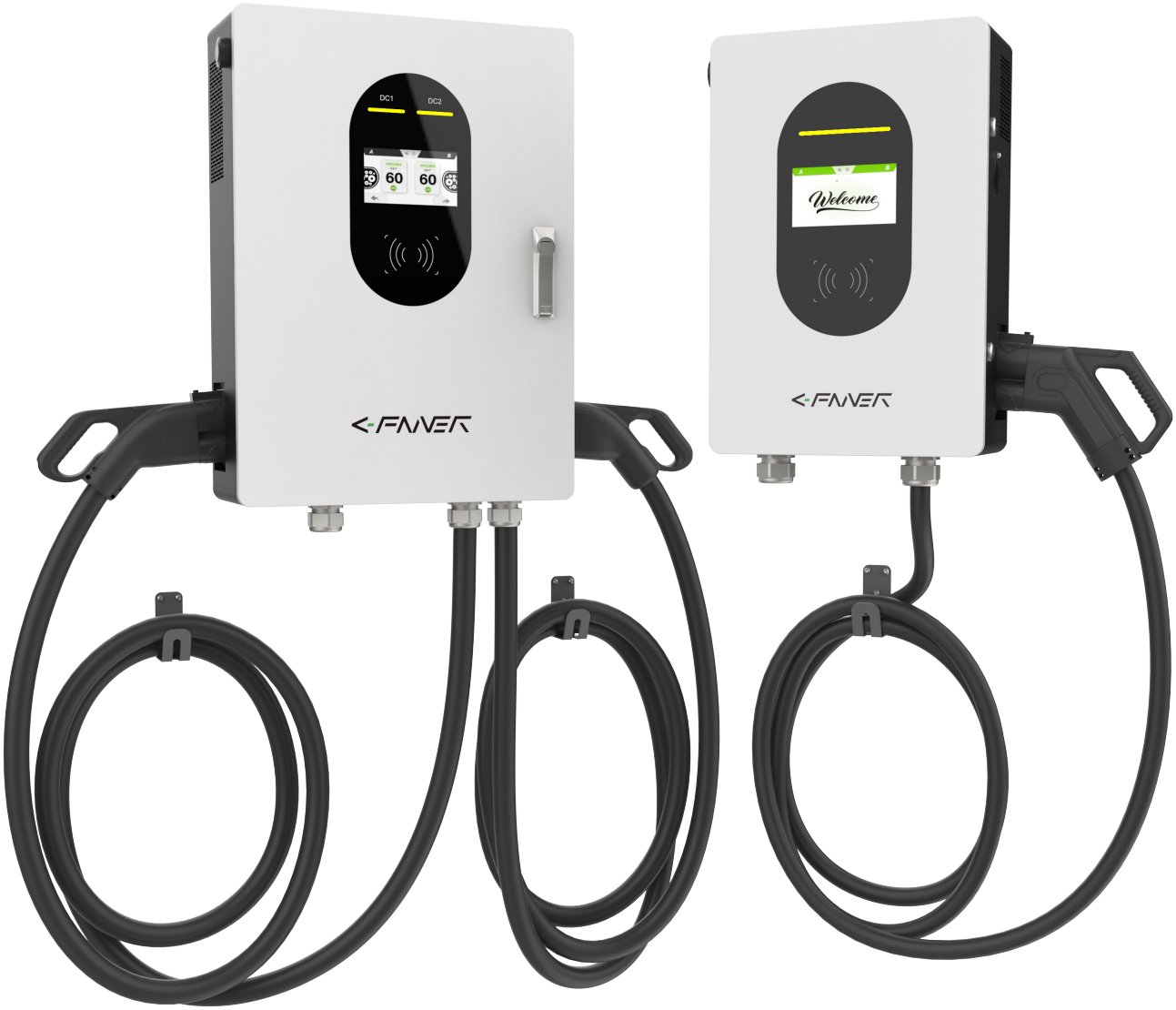
UNI STREAM

30 / 60 kW DC Charger

User Manual & Installation Instructions



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Introductions

The UNI STREAM DC Fast Charger is an ideal solution for charging battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). It is designed to provide fast charging in both public and private locations, including retail and commercial parking facilities, fleet charging stations, highway service areas, workplaces, residential areas, and more.

The UNI STREAM DC Fast Charger is designed for easy installation. Its wall-mounted design and plug-in power modules enable flexible, cost-effective installation in a wide range of applications. The charger also supports network communication, allowing it to connect to remote management systems and provide EV drivers with real-time information such as charging station availability, charging status, and billing details.

Featuring an intuitive user interface with function buttons, certified safety protection, and excellent waterproof and dustproof performance, the UNI STREAM DC Fast Charger is a reliable solution for outdoor environments.

Features

- Wall-mounted design and plug-in power modules enable easy, flexible, and cost-effective installation.
- Supports start and stop charging via an authorized RFID card or mobile app for convenient access control.
- Built in compliance with the latest industry standards for DC charging.
- Designed for outdoor use with a robust enclosure that provides reliable protection against dust and water ingress, ensuring stable and dependable operation.
- Features a high-contrast display with an intuitive user interface and multi-function buttons.

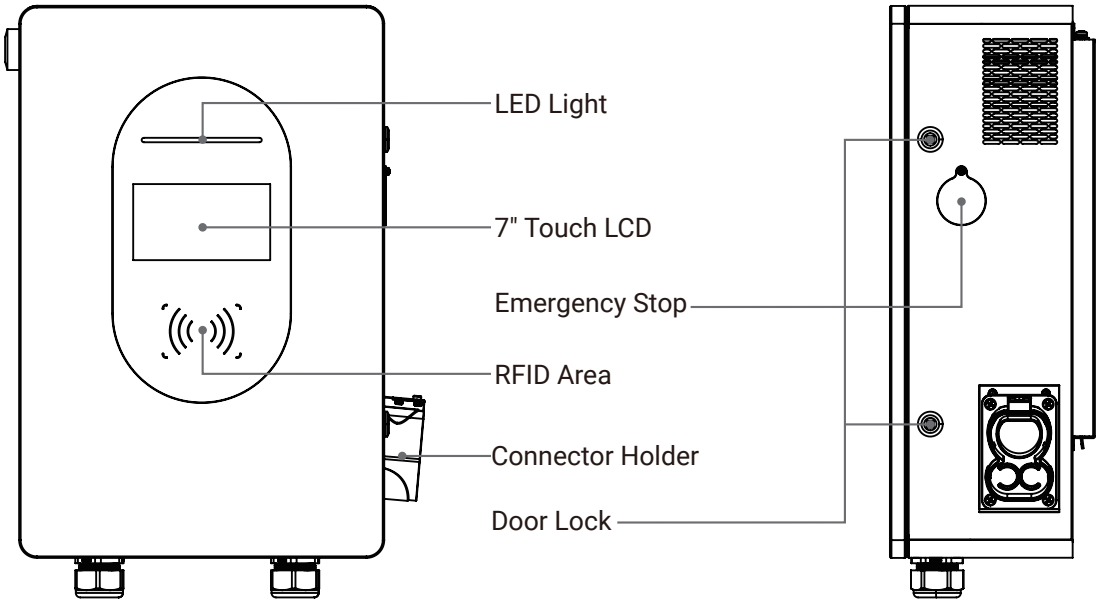
Applications

- Public and private parking facilities
- Residential community parking areas
- Hotel, supermarket, and shopping mall parking areas
- Workplace parking areas
- EV charging stations
- Highway service areas

Product Overview

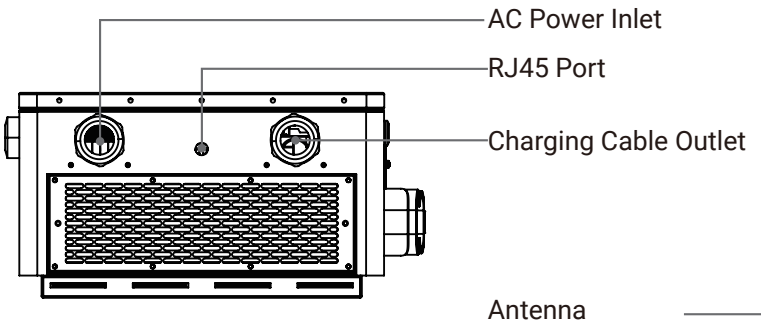
Basic User Interface

30 kW

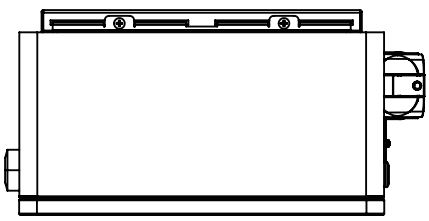


Front View

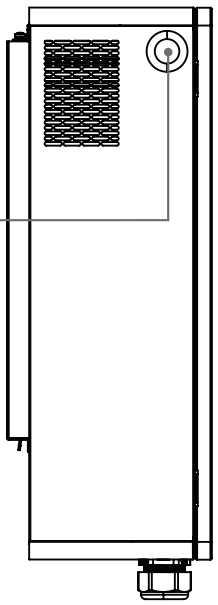
Right View



Bottom View

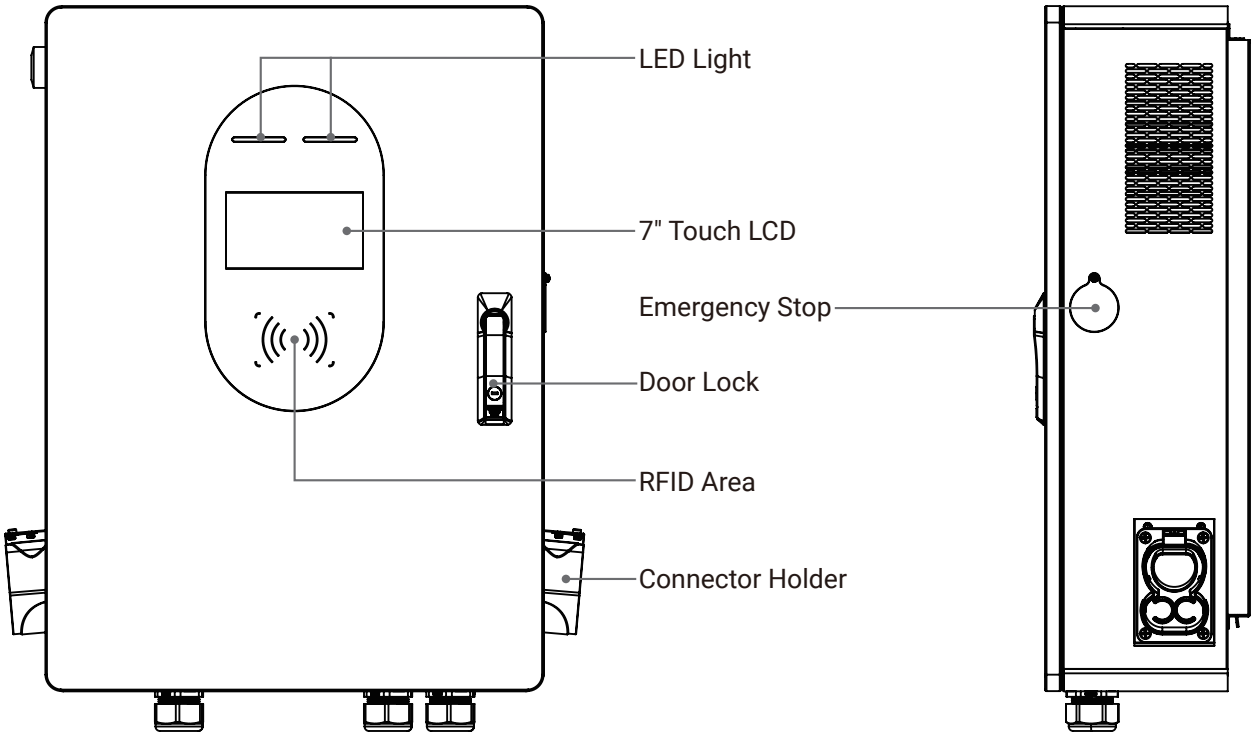


Top View



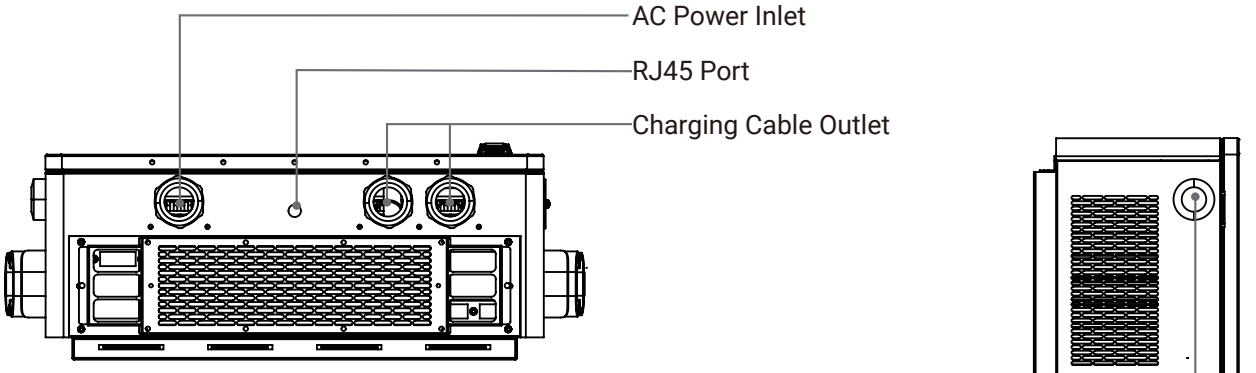
Left View

60 kW

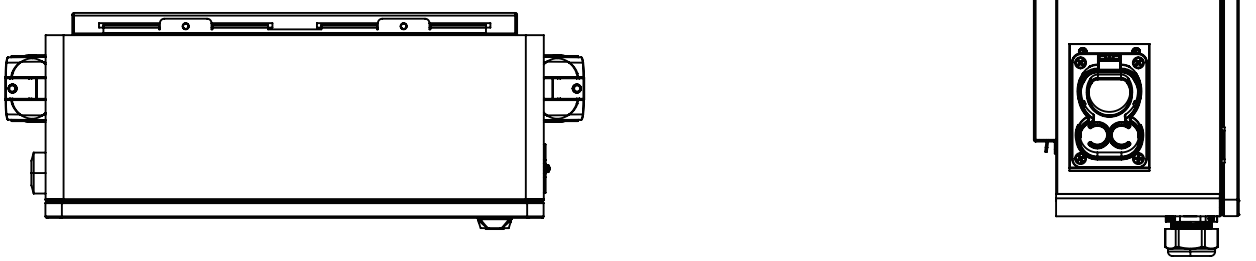


Front View

Right View



Bottom View

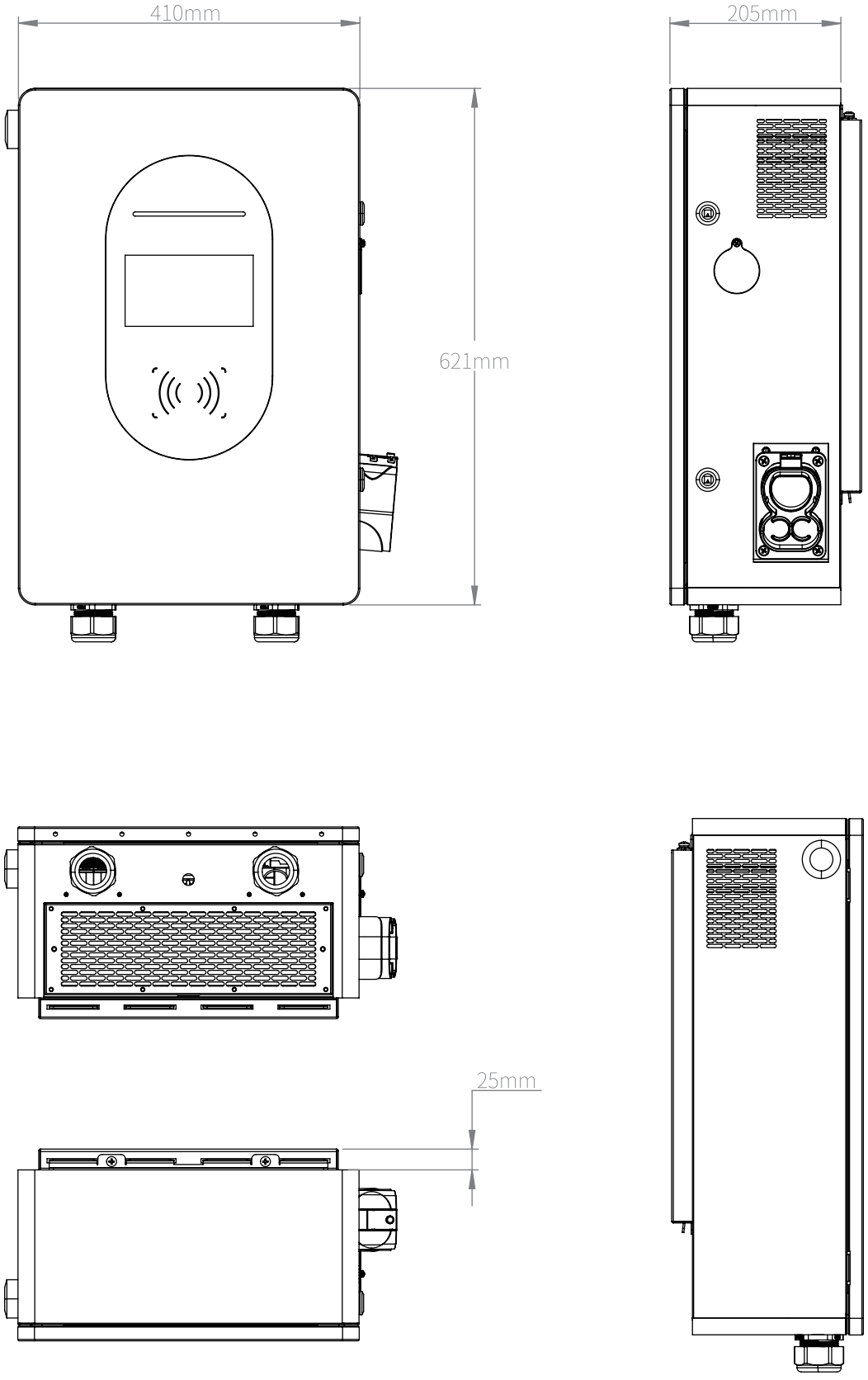


Top View

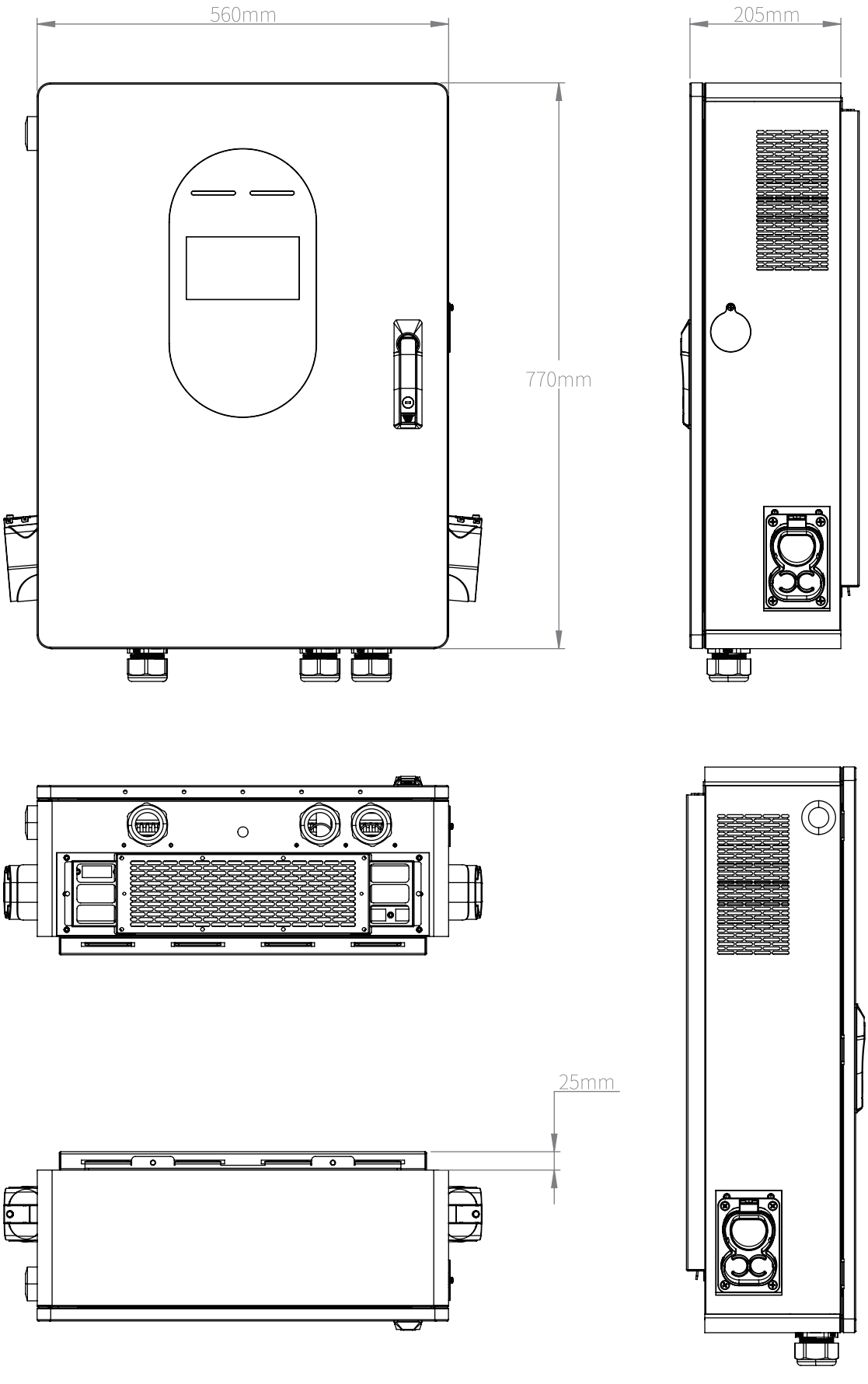
Left View

Dimensions

30 kW



60 kW



Specification

Specification		
Output Power	**30 kW**	**60 kW**
Technical Features		
Input Voltage	300 VDC ~ 850 VDC	
Efficiency	>96%	
Output Voltage Range	CCS: 300 ~ 1000 VDC	
Output Current Range	0 ~ 100A	0 ~ 200A*2
Communication	OCPP 1.6 J (TLS)	
Display	LCD 7 inch touch screen	
Versatility	Conform to UL2954, UL2231-1/-2	
Energy Meter	CE certified	ETL certified
RCD	Type A or Type B (optional)	
Safty Design	Over/under voltage protection, overload protection, current leakage protection, grounding protection,lightening surge protection	
DC Connector	CCS1 / CCS2, 5 meters cable	CCS1 *2 / CCS2 *2 / CCS1 + CCS2, 5 meters cable
Physical Properties		
Dimensions (main body)	W471*H665*D230mm	W651*H815*D243mm
Protection Class	IP54	
Installation Method	Wall-mount or pedestal (optional)	
Noise	<55DB in all directions	
Operating Temperature	-20 ~ +50°C	
Humidity	Max.95% (non-regulating)	
Warranty	2 years	

Installation Instruction

Before Installation



WARNING: This DC charging equipment must be installed exclusively by a licensed electrician or qualified technician, in full compliance with all applicable local building codes, electrical regulations, and safety standards governing high-power DC installations.



WARNING: A pre-commissioning inspection of the product must be conducted by a qualified installer. Adherence to the instructions in this manual does not absolve the user from the responsibility of complying with all relevant codes and safety standards.

- Do not operate the charger if the DC power input cable, output cable, or charging connector shows any signs of damage, wear, or exposed wiring.
- Do not use the product if the enclosure, connector housings, or internal covers are broken, open, or compromised in any way.
- Never insert tools, materials, fingers, or any other objects into the DC charging connector, vehicle inlet, or any openings of the equipment.
- The DC power input to the charger must utilize an approved grounding configuration as defined by local electrical codes. The system grounding must ensure safety and compatibility with the charger's design.
- In a grounded DC system: The DC negative terminal (or designated reference potential) and the Protective Earth (PE) conductor are connected to the earth ground. The charger's PE terminal must be directly connected to the installation's PE conductor. A separate, dedicated PE conductor must be used throughout.
- In an isolated (or floating) DC system: The DC power source is isolated from earth ground. The charger's protective earth (PE) terminal must still be connected to the installation's PE conductor, which is connected to earth, providing a safe path for fault currents while the DC supply remains isolated.
- Electrical Supply: The DC input supply must be capable of delivering a continuous power output higher than 30kW to ensure the charger operates correctly and within its specifications.
- Grounding (Earthing) Requirements: The charger must be connected to a protective earth (PE) ground in accordance with all local electrical codes. The integrity of this ground connection is critical for safety.
- Clearance & Ventilation: Ventilation: The product is designed for installation in a free-air area. To ensure adequate cooling and prevent overheating, a minimum clearance of 30 cm must be maintained around all ventilation openings (air vents) of the enclosure.

- Access for Service: Sufficient space must be provided around the product to allow for safe installation, routine inspection, and maintenance. A clearance of not less than 60 cm is required on all sides of the product that provide access to internal components.

Grounding and Safety Requirement



CAUTION: The installation contractor must provide an external, readily accessible disconnect device capable of simultaneously isolating all DC power input conductors. This disconnect must be suitably rated for the system's DC voltage and current.



CAUTION: The use of any extension cord, secondary cable assembly, or adapter between the DC Charger and the electric vehicle is strictly prohibited. Connection must be made directly using the provided charging cable to ensure safety, performance, and compliance with ratings.

- The DC power input and all control wiring must be connected to a grounded, permanent wiring system that complies with the charger's electrical ratings.
- All electrical connections and grounding shall be performed in strict accordance with all applicable local electrical codes and safety standards.
- Ensure that all DC power sources are disconnected and the equipment is completely de-energized before performing any installation, servicing, or maintenance activities.
- Appropriate personal protective equipment (PPE) rated for the system's DC voltage must be used when working on the equipment.
- Only use tools and test instruments that are approved for use on high-power DC circuits.

DC-DC Converter Grounding (For EV Charger)

- Always connect the DC-DC converter's reference ground to the charger's chassis ground.
- If the DC input source does not provide a grounded reference, the DC negative terminal (or a designated ground terminal) of the DC-DC converter must be connected to the chassis ground bar inside the charger.
- The chassis ground bar must be connected to the earth ground electrode via a low-impedance path. The DC system's negative should be bonded to the chassis ground at a single point within the DC-DC converter to prevent ground loops.

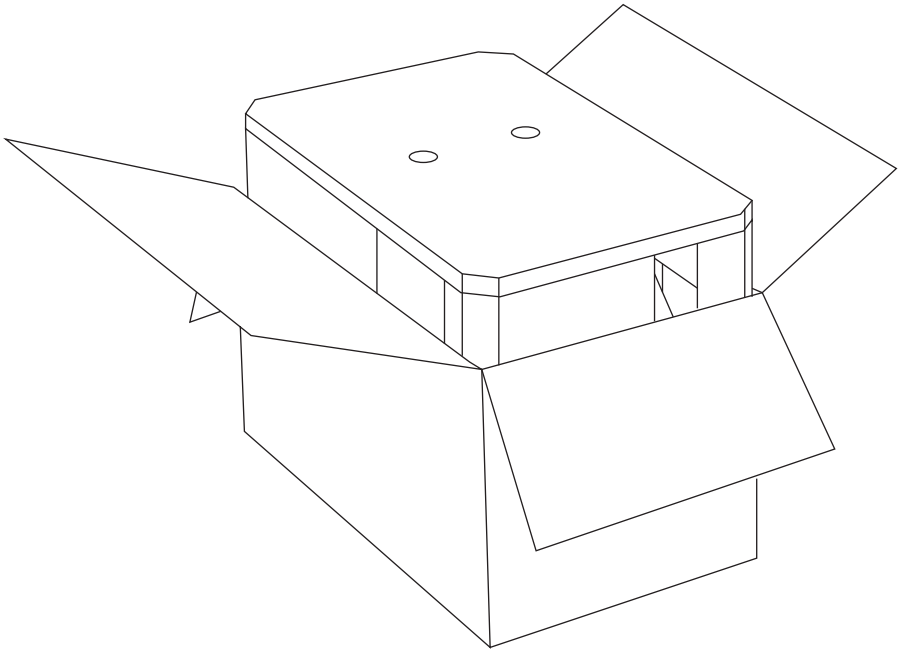
Unpack the Charger



WARNING: The charger weighs more than 80 kg. Be careful during unpacking.

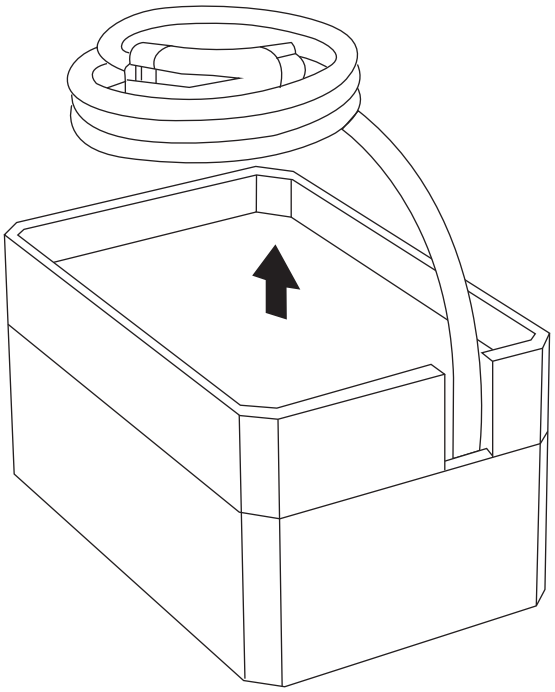
Step 1

Remove the protective film and the surrounding cardboard packaging.



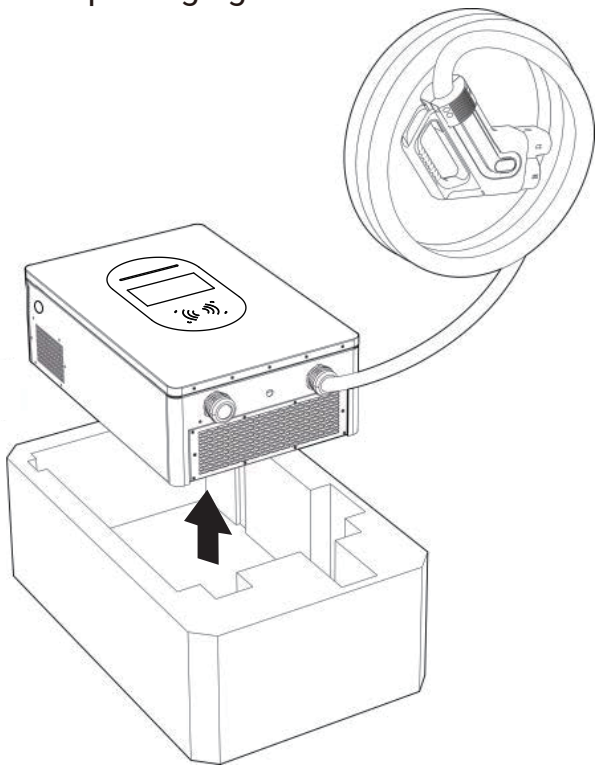
Step 2

Take the accessory box and charging cable out of the upper packaging, then remove the upper packaging.



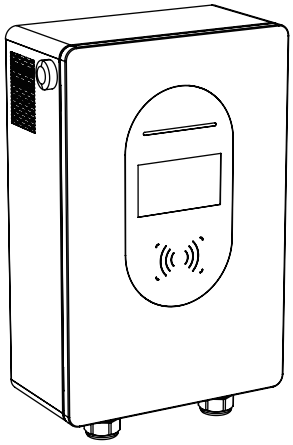
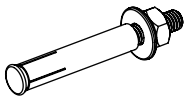
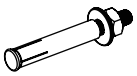
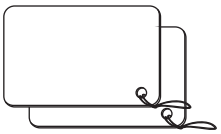
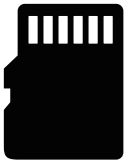
Step 3

Take the charger out of the packaging.

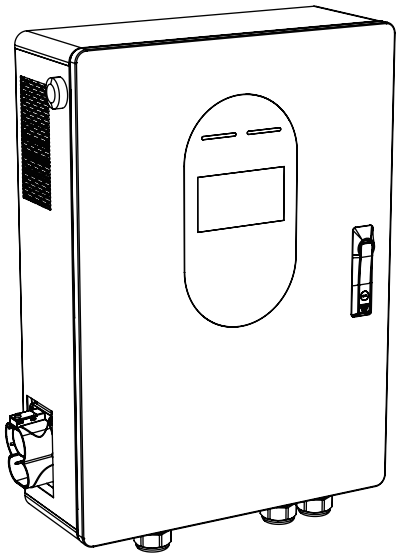
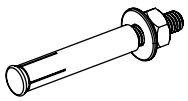
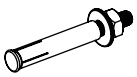
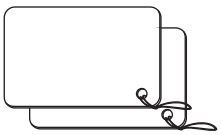
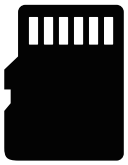


Packing List

30 kW

			
1x	1x	4x	4x
	User Manual	Expansion Bolt (Big)	Expansion Bolt (Small)
			
	2x	2x	1x
30 kW EV Charger	RFID Card	Key	SD Card

60 kW

			
1x	1x	4x	4x
	User Manual	Expansion Bolt (Big)	Expansion Bolt (Small)
			
	2x	2x	1x
60 kW EV Charger	RFID Card	Key	SD Card

Tools Required for Installation

Type	Description
Philips Screwdriver	No. 2 and 3
Adjustable Wrench	8" (24mm)
Ball-End Hex Key	2.5mm and 5mm
Socket Wrench	No. 8 ,10 and 17
Electrical Tape	Black / 15mm Width
Input Cable of 30kW	DC+, DC- ,PE
Input Cable of 60kW	DC+, DC- ,PE
Crimping Pliers for Ring Terminal	Applied for 16 ~ 25mm²
Power Drill	
Wire Cutters	
Spirit Level	

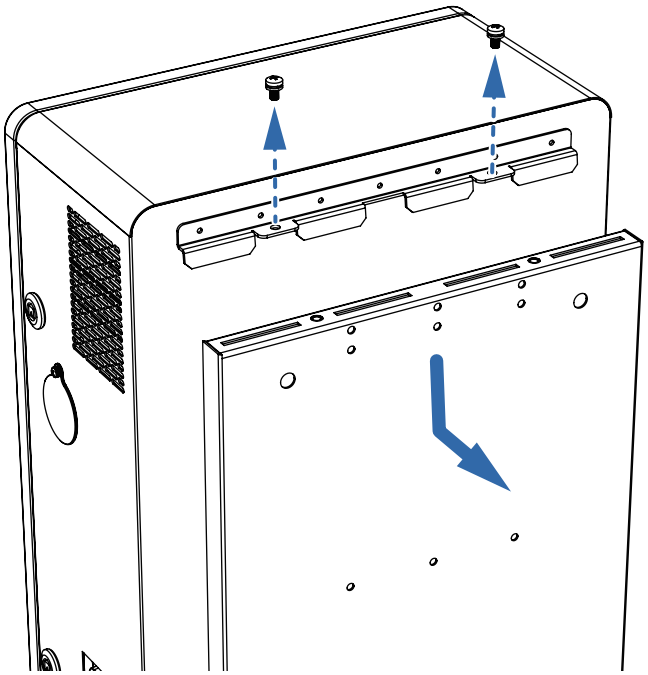
Required Inspection Equipment

Type	Description
Electric Vehicle (EV) or EV Simulator	Meet CCS1 standard
Multimeter	1000 V
Current Probe	100 Amp
Authorized RFID Card	
Unauthorized RFID Card	
Door Key	
Needle-Nose Pliers	
Laptop or PC with CAT6 Ethernet Cable	For Charger Configuration

Installation Steps

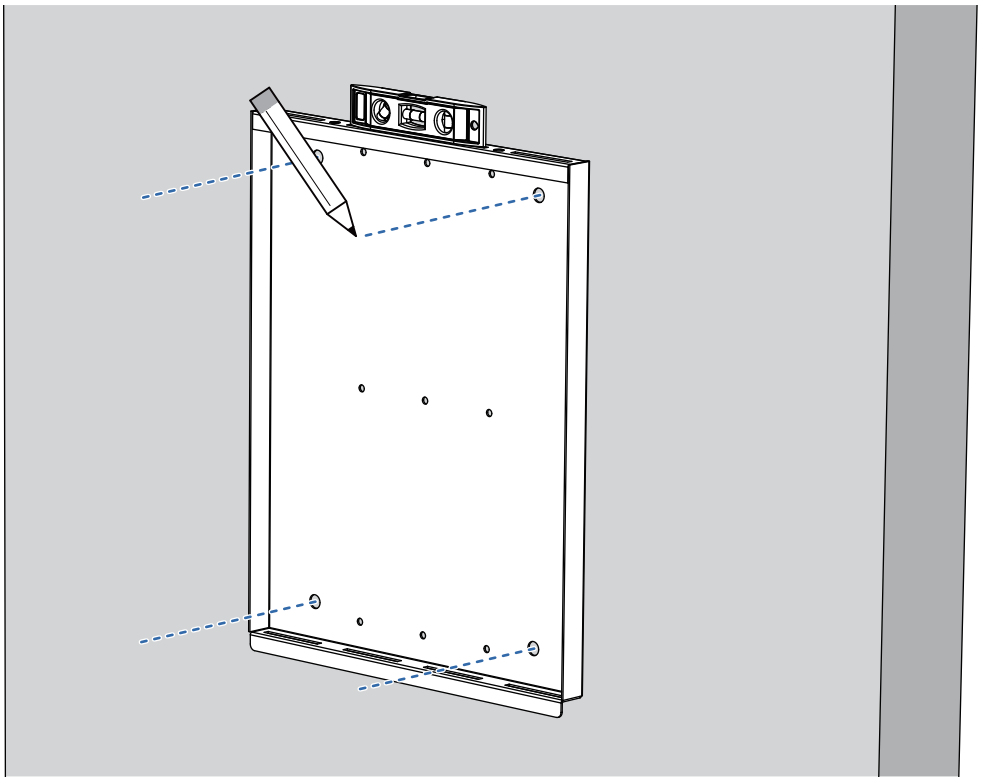
Step 1

Remove the two screws from the top of the charger, then take off the wall-mount bracket.



Step 2

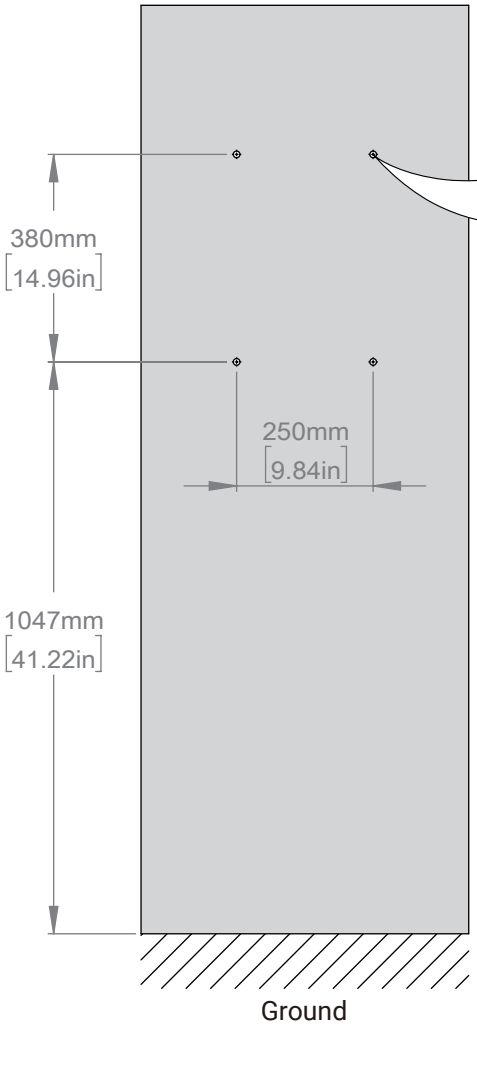
Place the wall-mount bracket against the wall and mark the mounting holes. Use a spirit level to ensure proper alignment.

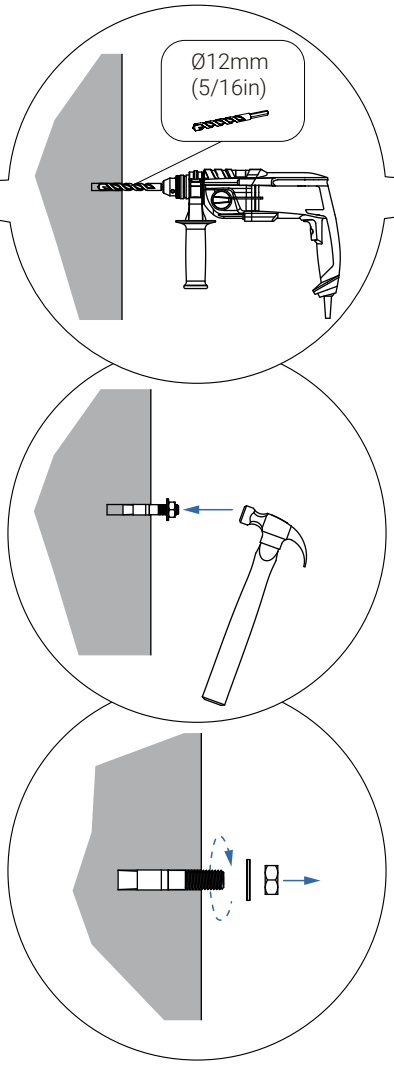


Step 3

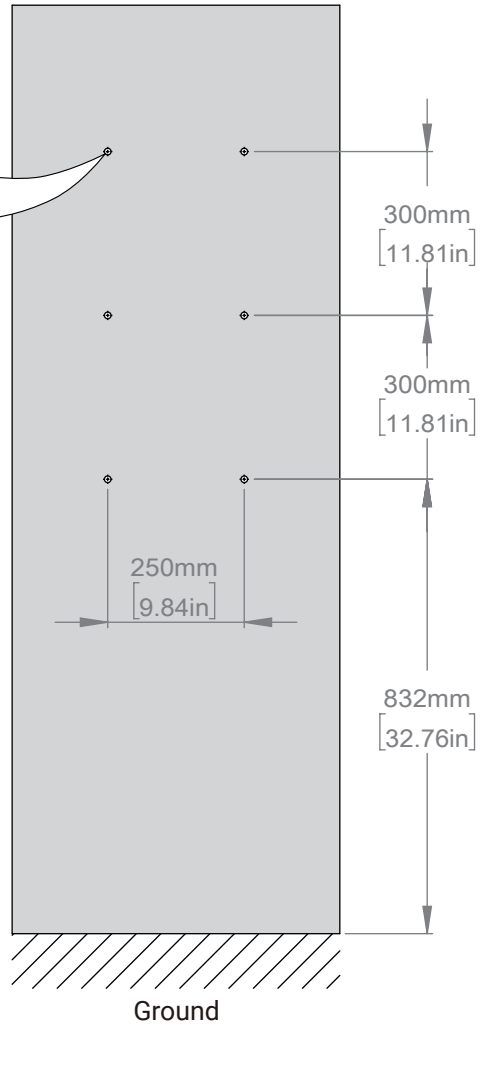
Drill the mounting holes in the wall and remove any dust. Insert an anchor bolt into each hole by tapping it in with a hammer, then remove the nut and washer from each anchor bolt.

- **Hole position for 30 kW**



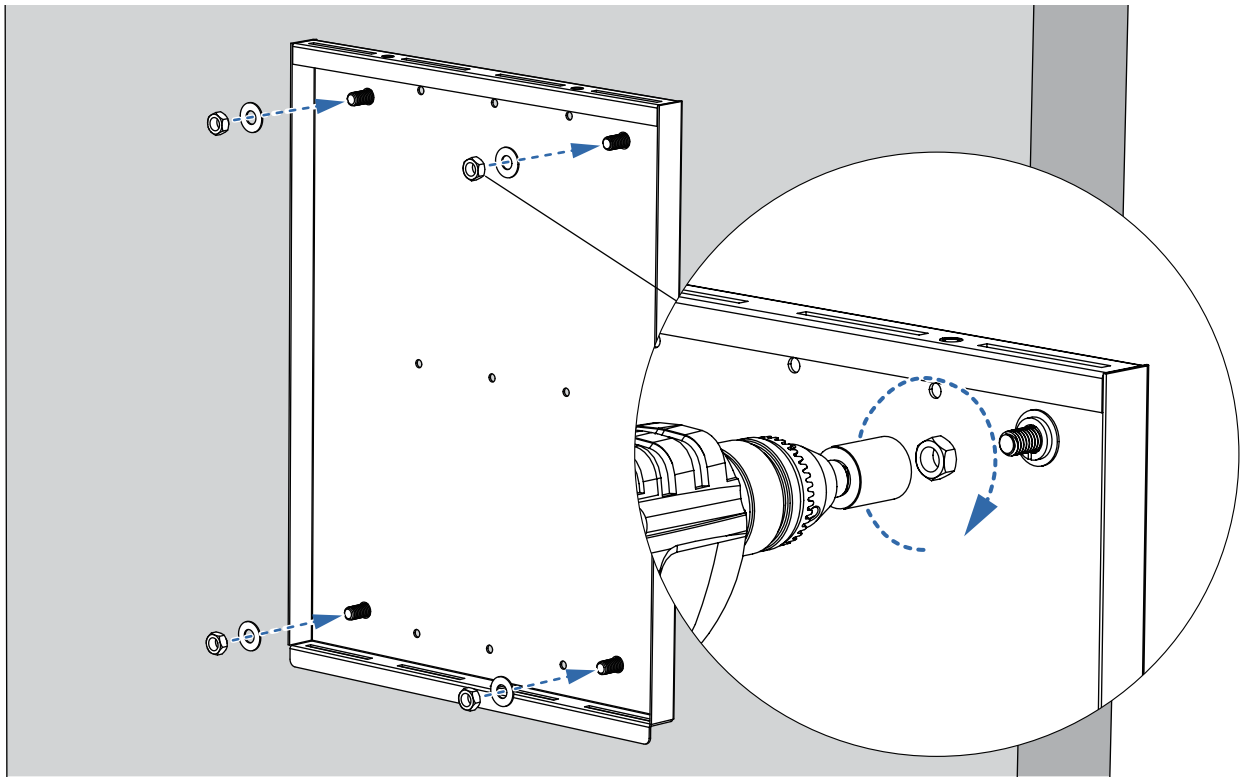


- **Hole position for 60 kW**



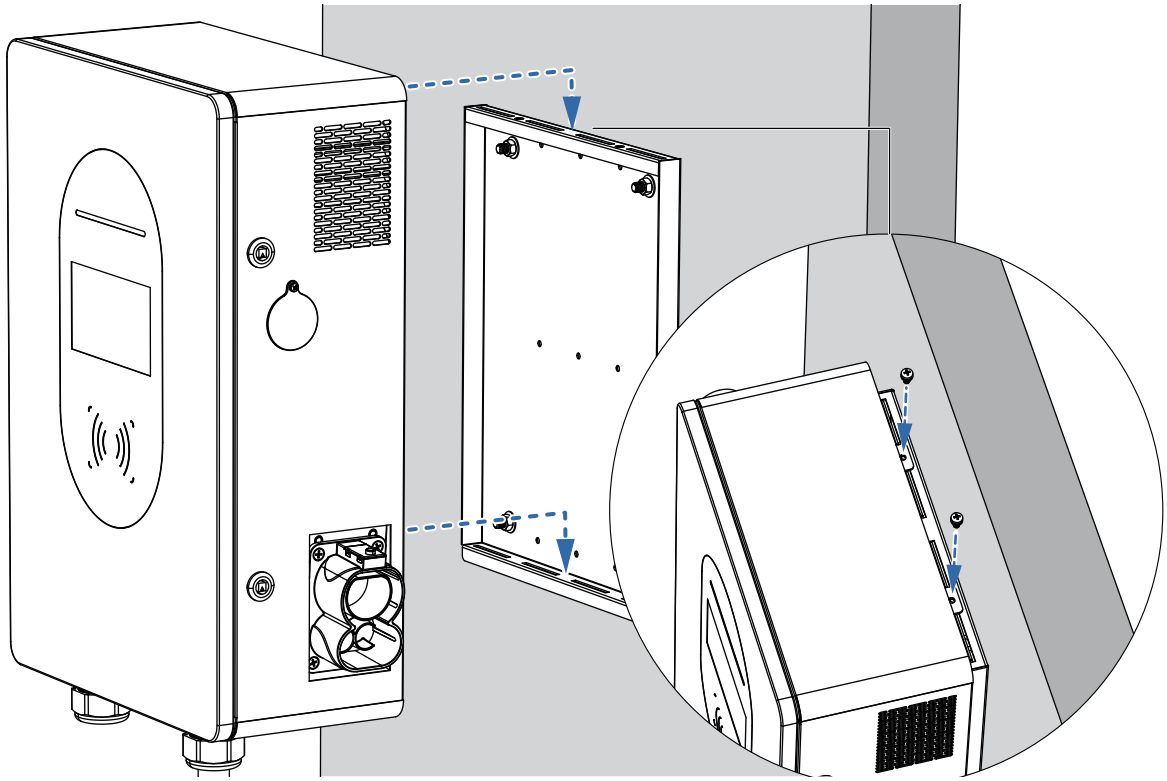
Step 4

Secure the wall-mount bracket to the wall. Install the washers and nuts onto the anchor bolts, then tighten the four sets of nuts with a socket wrench.



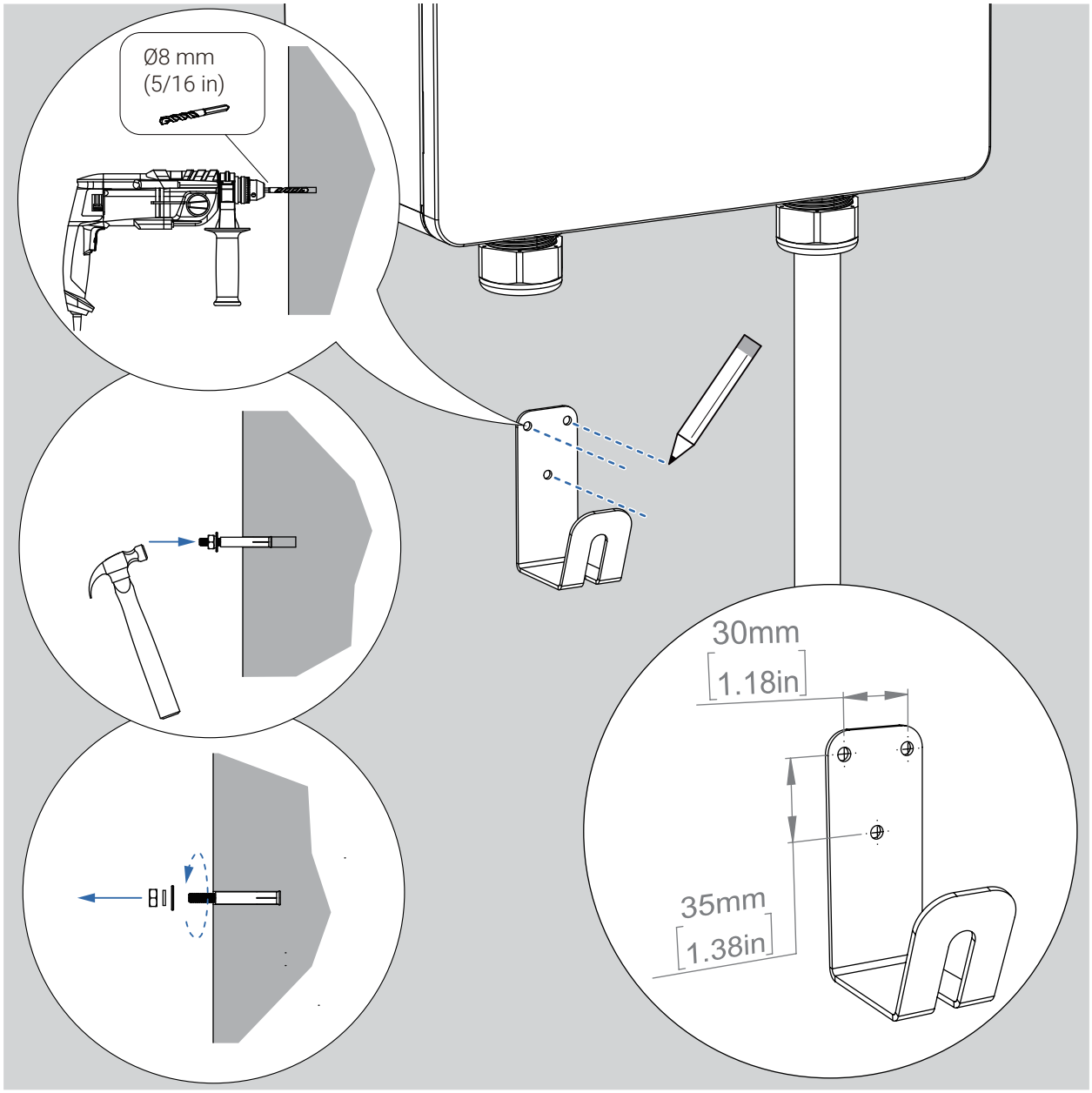
Step 5

Hang the charger on the wall-mount bracket, then reinstall and tighten the two screws at the top of the charger.



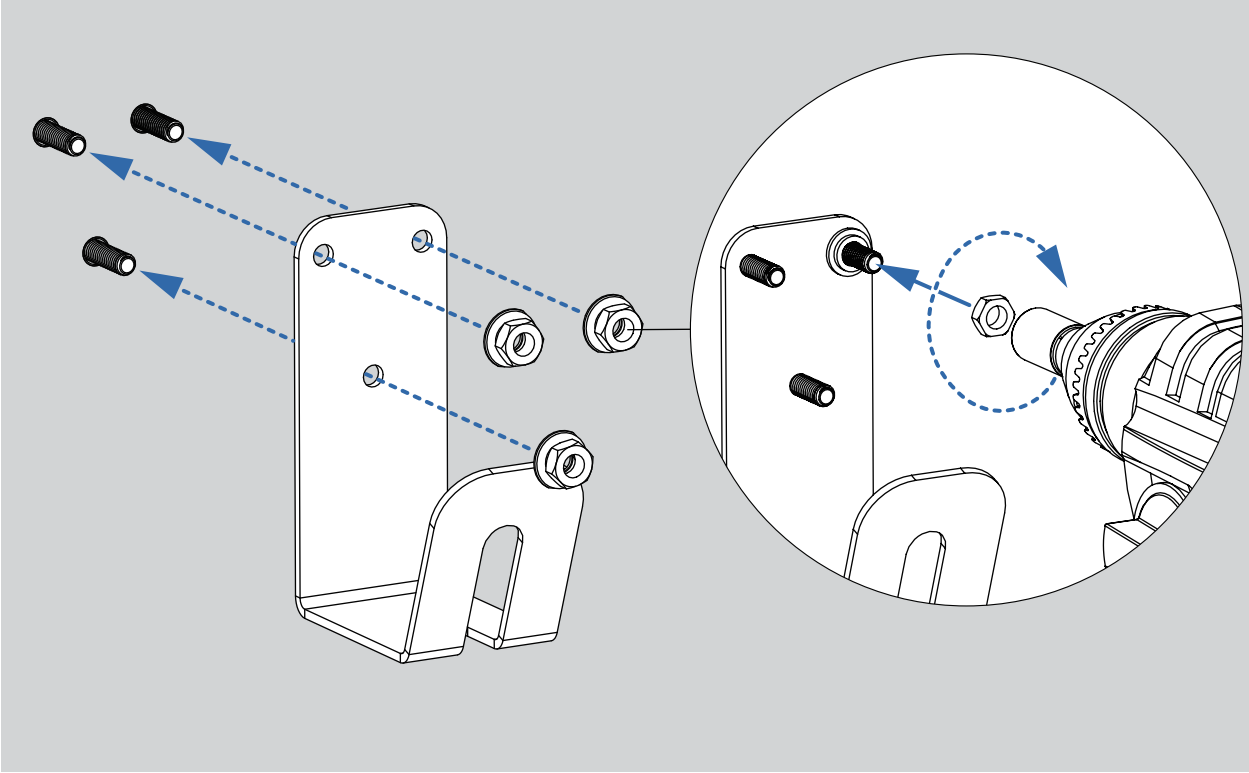
Step 6

Place the charging cable holder against the wall and mark the positions of the three mounting holes. Drill the mounting holes in the wall and remove any dust. Insert an anchor bolt into each hole by tapping it in with a hammer, then remove the nut and washer from each anchor bolt.



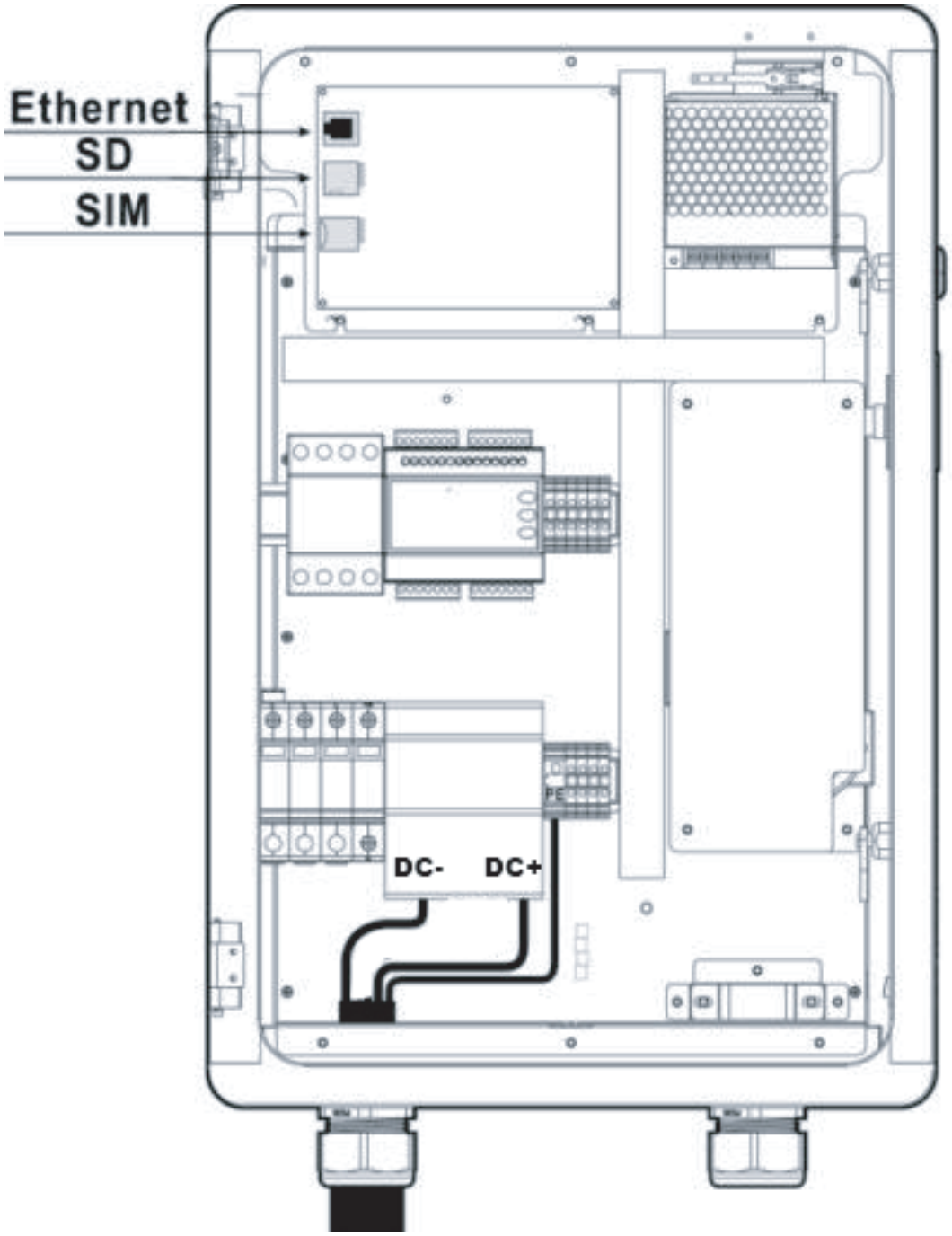
Step 7

Secure the charging cable holder to the wall. Install the washers and nuts onto the anchor bolts, then tighten the three sets of nuts with a socket wrench.



Step 8

Use XLPE-insulated power cables or equivalent for the DC input connections. Ensure that the cables are rated for the system's DC voltage and continuous current. Crimp each conductor with the appropriate terminal lug before installation. Route the cables through the cable gland at the bottom of the charger. Connect the DC+ (positive), DC− (negative), and PE (Protective Earth) conductors to their corresponding terminals, as shown in the figure below.



Installation Inspection & Debugging

Description	Status	Remark
Environment		
Ambient Temperature		
Ambient Humidity		
Sunshade		Recommended but not required
Rain Canopy		Recommended but not required.
Air Circulation / Drafty		
Dust Level		
Anti-Vandalism Measures		
External Infrastructure		
Input Wirings & Terminals		Type/ Length/ Cross Section
Key & Lock of Cabinet Door		
Fixing Screws		Type / No
No Fuse Breaker (NFB)		Notice: Current rating of NFB shall be higher than 63 Amp
Residual Current Device (RCD)		Notice: Maximum RCD residual current shall not excess 30mA
Input Electricity Capacity		
Input Electricity Configuration		Wye
Grounding Resistance		<50Ω
Grounding System		
Input Voltage & Frequency		
Network Connection & Quality		LAN/ Wi-Fi/4G
EVSE (Non-Powered)		
Appearance		
Labeling & Warning Signs		
Package (Accessory) List		
Robustness of Input Wirings		

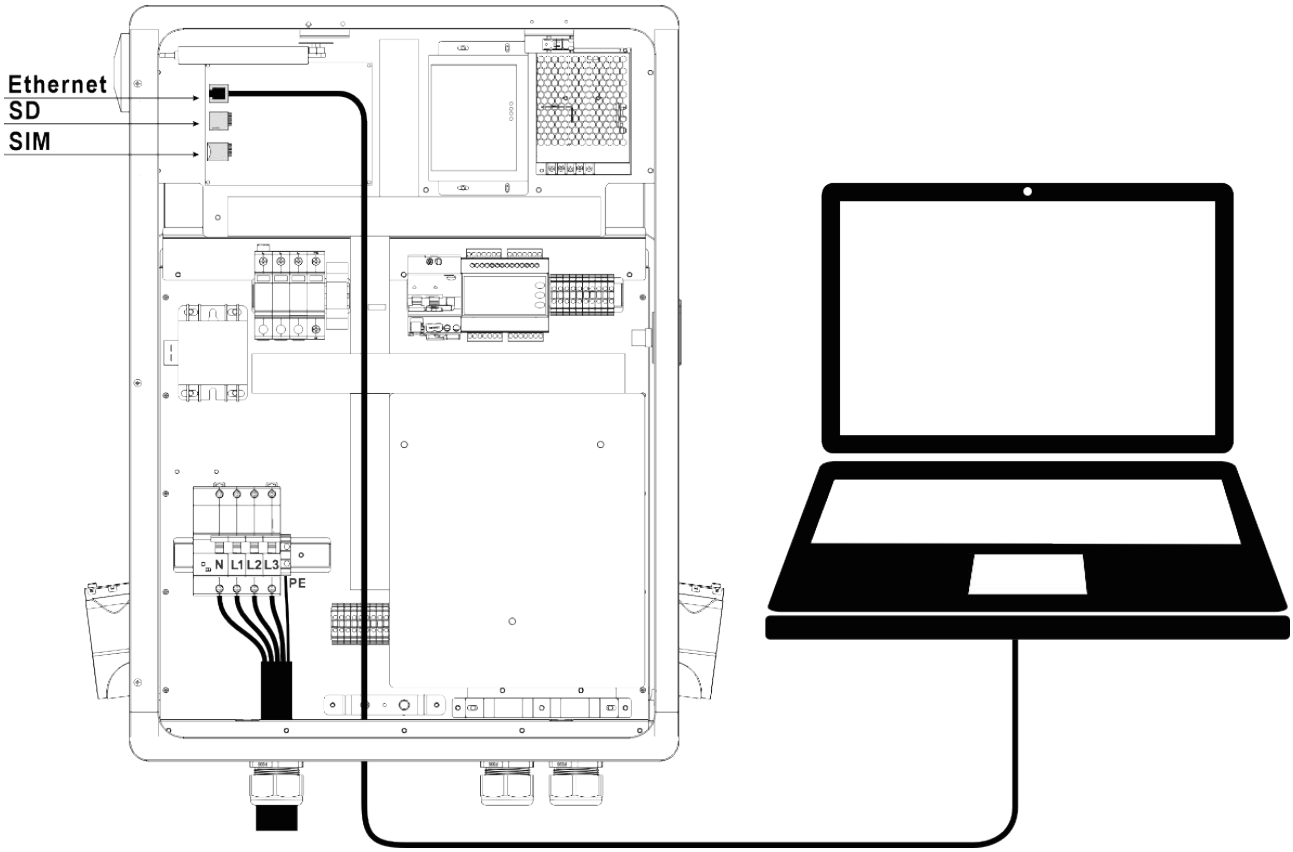
EVSE (Power On)		
Screen On		
Acoustic Noise		
Screen Display & Function		
Time Display Correctly		
Network Connection Quality		
Cooling Fans Operation & Noise		
Led Status Indication		
EVSE Setting		
Function of Engineer Mode		
Version of H.W. & F.W.		
Remote Control & Monitoring		
Backend Server Connection		
EVSE Charging		
User Authorization –RFID		
User Authorization –QR Code		
User Authorization –Others		
Waiting Time of Connection Check		
Reading of Each Display Item		
Full Charge Test		
Function of Electronic Lock		
Reading of Engineer Mode		
Airflow & Noise of Cooling Fan		
Charging Record (log) Upload		
Remote Control & Monitoring		
EVSE System Power Button		
Emergency Stop Button		

Operation Process

Network Setting

Step 1

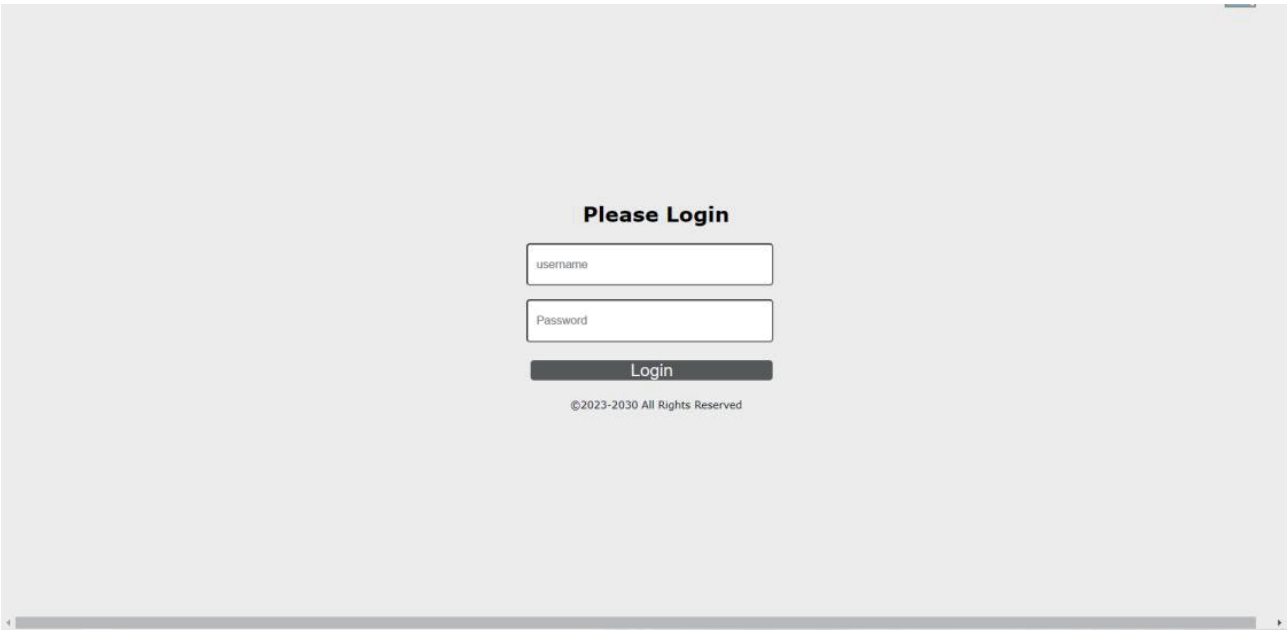
Connect the RJ45 cable from the laptop to the charger's RJ45 port.



Step 2

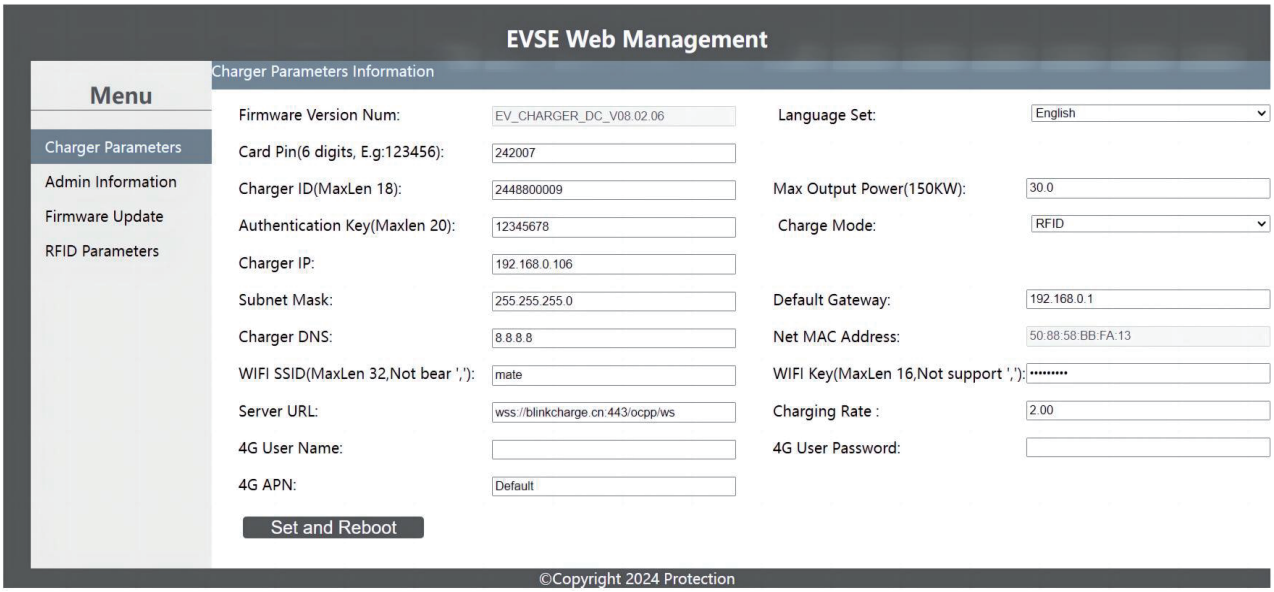
Open a web browser and enter the charger's IP address (192.168.2.5:8080) in the address bar to access the charger's web interface. Log in using the following credentials:

Username: admin
Passwrod: 12345678



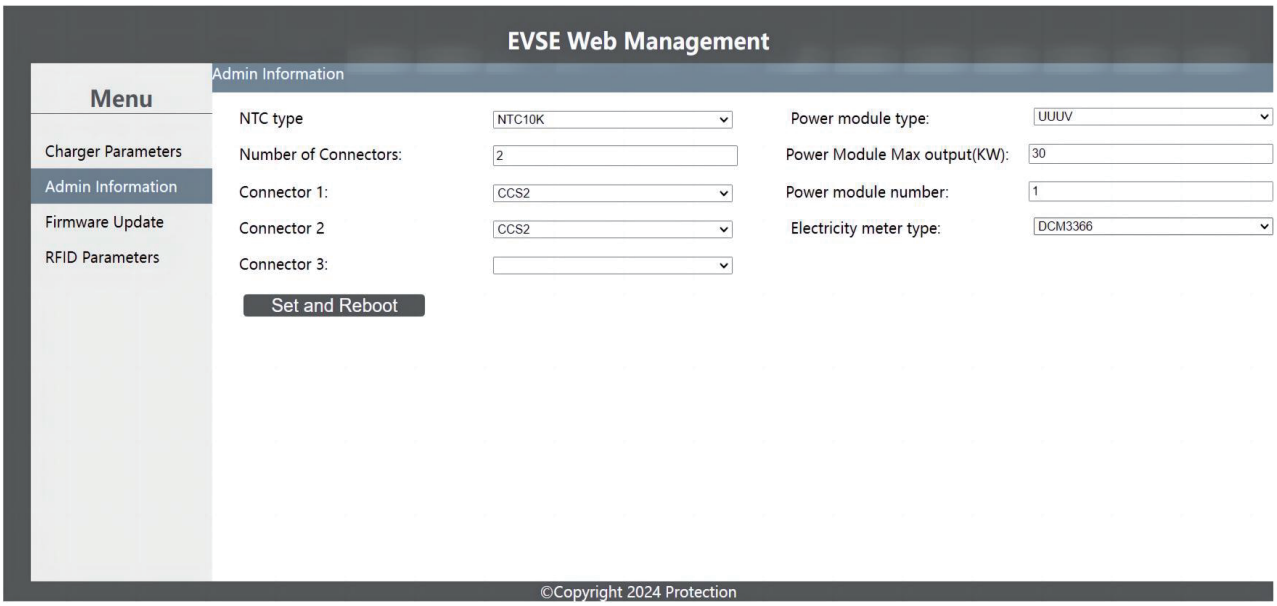
Step 3

Select the desired Wi-Fi mode and enter the Wi-Fi SSID and Wi-Fi Key as required. If Wi-Fi is not used, leave the default settings unchanged.
The firmware version, charger ID, and server URL can be configured on this page.



Step 4

The module type, connector type, meter type, and other settings can also be configured.



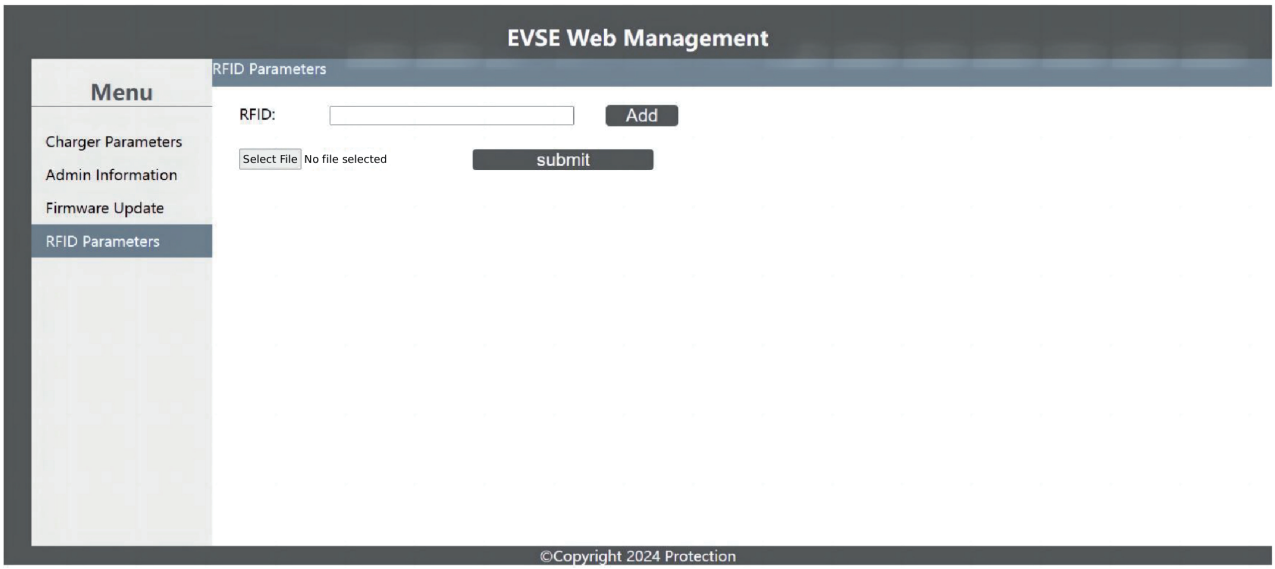
Step 5

Select a firmware file to update the charger firmware.



Step 6

Select an RFID file to import the RFID card binding information.



Troubleshooting

- If an error occurs during charging, refer to the error code list for instructions. If the problem persists, contact your charger provider for assistance.
- In an emergency, press the Emergency Stop button to stop charging immediately.

Error Code List

Error Code	Description	Solution
1	Emergency stop	Rotate the button clockwise to reset the charger
2	CCS output fuse blew	Replace the fuse
3	AC input contactor 1 welding	Replace the contactor
4	CCS output relay welding	Replace the Relay
5	CCS connector temperature sensor broken	Replace the sensor
6	Relay control module /smart box broken	Replace the Relay control module
7	CCS Power module fault	Replace the CCS Power module
8	Maximum Output Current setup error	Reset the correct value
9	Maximum Output Voltage setup error	Reset the correct value
10	BLE module broken	Replace the BLE module
11	4G module broken	Replace the 4G module
12	Ethernet / BLE module broken	Replace the Ethernet / BLE module
13	Wi-Fi module broken	Replace the Wi-Fi module
14	CCS connector OTP	Reset the OTP value
15	SPD trip	Replace the SPD Module
16	CCS ground fault detection timeout (GFD)	Check the Ground line
17	RFID module communication fail	Check Communication line with RFID
18	Power module communication fail	Check can line with power module
19	Cabinet door open	Closed the door & recharge with vehicle
20	System fan failure	Replace the fan
21	AC Ground Fault	Check the Ground line
22	CCS EV communication Fail	Check the connection to the vehicle

Maintenance

General Maintenance

- The DC Fast Charger is cooled by forced air. Install and operate the charger in a well-ventilated location, and do not block its air vents.
- Clean or replace the air filters regularly to ensure proper operation.
- Clean the DC Fast Charger at least three times a year, and keep the exterior clean at all times.
- Clean the exterior of the enclosure with a damp cloth or soft cotton towel. Use only low-pressure tap water and cleaning agents with a pH between 6 and 8.
- Do not use high-pressure water jets.
- Do not use abrasive cleaning agents or abrasive tools. Improper cleaning agents may damage the coating, paint, surface finish, gloss, and durability of the exterior.
- If water enters the DC Fast Charger, disconnect the power immediately and contact your DC Fast Charger provider for service.
- After charging is complete, always return the charging connector to its holder to prevent damage.
- If the charging connector, charging cable, or charging connector holder is damaged, contact your DC Fast Charger provider.
- Handle the DC Fast Charger with care. Do not strike or scratch the enclosure or touchscreen.
- If the enclosure or touchscreen is broken, cracked, open, or shows any other signs of damage, contact your DC Fast Charger provider.ace the air filters regularly to ensure proper operation.
- Disconnect the DC Fast Charger from the AC power supply before performing any maintenance. Failure to do so may result in personal injury or damage to the electrical system or the charger.



WARNING: Danger of electric shock or injury. Turn off the power at the distribution panel or load center before servicing the equipment or removing any components. Do not remove any circuit protection devices or other components until the power has been turned off.

Note:

- Before switching off the main breaker to begin maintenance, record the status code displayed on the LCD monitor.
- After turning off the key switch, the circuit upstream of the main terminals remains energized and hazardous. Only a visual inspection may be performed.
- Maintenance of the DC Fast Charger must be performed only by qualified service personnel.
- After opening the front door of the DC Fast Charger, turn off both the main breaker and the auxiliary breaker before performing any maintenance.
- Replace the ventilation filter every 6 to 12 months.

Limited Product Warranty

The DC Fast Charger is covered by a two-year limited warranty from the date of purchase.

Spare parts supplied by the manufacturer and used as replacement parts for warranty repairs are covered by a five-year warranty.

Replacement parts manufactured by third parties may be used only with prior written authorization from the manufacturer.

Warranty Exclusions:

- Power surges, lightning, earthquakes, fire, floods, pests, accidents, abuse, misuse, negligence, lack of proper maintenance, or any other event beyond the manufacturer's reasonable control or unrelated to normal operating conditions.
- Cosmetic damage, including dents, marks, or scratches resulting from normal use.
- Consumable or accessory items, including door keys, RFID cards, air filters, fuses, cables, wires, and connectors.
- Modifications, alterations, or disassembly that have not been authorized in writing by the manufacturer.
- Failure to comply with the applicable safety regulations or operating instructions.
- Installation or operation that is not in accordance with the product documentation, including, but not limited to, failure to provide adequate ventilation as specified in the installation instructions.

If a defect covered by this warranty arises during the warranty period and a valid warranty claim is received, the manufacturer may, at its sole discretion and to the extent permitted by applicable law:

1. Repair the defective product at no charge using new or refurbished parts.
2. Replace the product with a new or refurbished product of equivalent functionality.

Any repaired or replacement product will be covered for the remainder of the original warranty period or 90 days from the date of delivery to the customer, whichever is longer.

To obtain warranty service, contact the manufacturer during the warranty period and provide the following information:

- Model name
- Serial number
- Proof of purchase
- Date of purchase

Please scan the QR code to check the latest version of the user manual.

Contact:

E-FANER Tech Co., Ltd.

E-mail: efaner0105@e-faner.com

Tel: +886-2 2708 8810

Address: 14 F., No. 125, Sec. 2, Keelung Rd., Xinyi Dist., Taipei City 110607, Taiwan (R.O.C.)

Website: www.e-faner.com