

# M-EV Charger

MEV-7K-S / MEV-11K-T User Manual



**ATMOCE**



# About This Document

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## Disclaimer

- Product information is subject to change without prior notice. Every effort has been made in the preparation of this document to ensure accuracy of the content, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.
- For optimum reliability and to meet warranty requirements, this product must be installed in accordance with the instructions in this manual.

## Applicable Scope

- This manual is intended for professional installation and maintenance personnel only.
- This manual mainly introduces the assembly, installation, configuration, maintenance, and troubleshooting methods of the following types of microinverters:

MEV-7K-S / MEV-11K-T



# Revision History

|   | Date       | Version    | Description       |
|---|------------|------------|-------------------|
| 1 | 09/05/2026 | Rev. 1.0.0 | 1. First release. |



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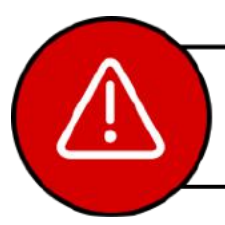
# Safety Information

## 1.1 Statement

- Before installing or using the Atmoce M-EV Charger, please carefully read the user manual, all instructions and safety labels on the product, and any safety manuals available. Not following these safety instructions may result in personal injury, damage to the equipment, or invalidation of the warranty.
- DANGER, WARNING, CAUTION, and NOTE in this manual imply that they must be observed. You must also comply with relevant international, national or regional standards and industry practices. Atmoce assumes no responsibility for any violation of safe operation requirements or of safety standards for the design, manufacture and use of the equipment.
- This equipment should be used in an environment that meets the design specifications; otherwise, the equipment failure, abnormal equipment function or damage to components that arises shall not be covered by the warranty.
- All operations such as transport, storage, installation, operation, use, maintenance, etc. should comply with applicable laws, regulations, standards and specifications.

## 1.2 Safety labels

To reduce the risk of electric shock and to ensure the safe installation and operation of the system, the following safety symbols are used throughout this manual to indicate hazardous conditions and important safety instructions.

-  **Danger**
- A label indicates a hazard with a high level of risk. If not avoided, it may result in serious personal injury or death.
-  **Warning**
- A label indicates a hazard with a medium level of risk. If not avoided, it may result in serious personal injury or death.
-  **Caution**
- A label indicates a hazard with a low level of risk. If not avoided, it may result in serious personal injury or death.
-  **Note**
- A label indicates a safety hazard and risk of device damage. If not avoided, it may result in equipment damage, data loss, reduced performance, and other consequences, but does not involve personal injury.

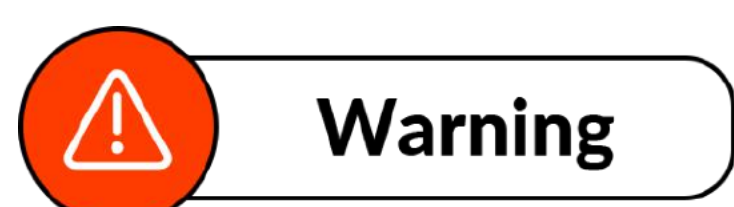


## 1.3 General warnings



### Danger

- Improper installation or use may result in fire, electric shock, injury, or equipment damage.



### Warning

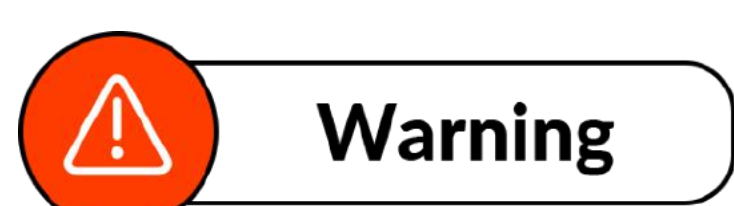
- Installation, commissioning, and service must only be performed by qualified and licensed electricians, in accordance with local laws and regulations.
- The charger must only be used to charge compatible electric vehicles. Do not connect to any other device or equipment.
- Do not attempt to disassemble, repair, tamper with, or modify the charger. The unit is not user-serviceable. Contact authorized service personnel for any repairs.

## 1.4 Installation safety



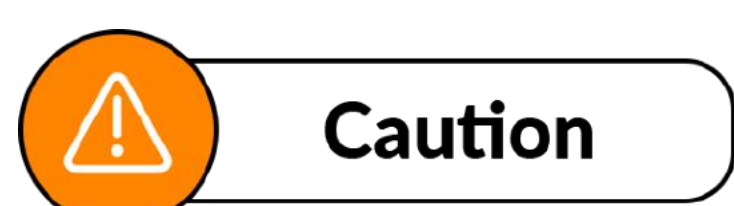
### Danger

- Disconnect all upstream power (circuit breaker/rcbo) before installation, maintenance, or cleaning.
- Ensure proper grounding through a permanent wiring system or protective earth conductor.



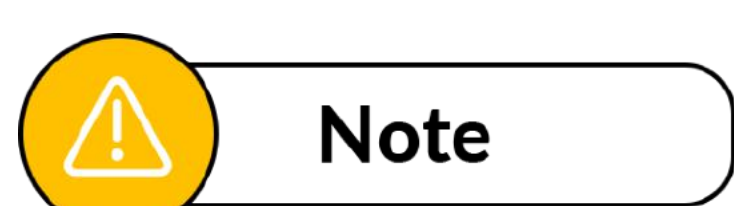
### Warning

- Use only approved copper conductors of the correct cross-sectional area. Ensure all terminations are tightened to specified torque values.
- Do not coil, twist, weld, or extend cables improperly. Keep cables away from sharp edges and heat sources.
- Install surge protection devices (spd) if required by local regulations. Ensure the upstream breaker or emergency stop switch is clearly labeled and easily accessible.



### Caution

- Ensure the installation surface is solid, flat, and capable of supporting the charger's weight.
- Mount the charger at the recommended installation height and provide sufficient clearance for ventilation and cable handling.



### Note

- Seal unused cable entry points to maintain enclosure protection (ip rating).



## 1.5 Environmental safety

### Danger

- Do not install or operate the charger near flammable, explosive, or corrosive materials.
- Do not install in locations exposed to flooding or standing water.
- Do not expose the charger to high-pressure water jets or submersion.

### Warning

- Avoid environments with extreme temperatures beyond the charger's rated specifications.

### Caution

- For indoor multi-charger installations, ensure adequate ventilation.

## 1.6 Operating safety

### Danger

- Do not use the charger, cable, or connector if damaged, cracked, frayed, or malfunctioning.
- Never use the charger if the enclosure, connector, or cable shows signs of water ingress.
- Do not spray liquids onto the charger or submerge the connector in water.
- Do not handle the charger or connector with wet hands.
- Adaptors or conversion adapters are not allowed to be used.
- Cord extension sets are not allowed to be used.

### Warning

- Ensure the vehicle is turned off before connecting or disconnecting the charging connector.
- Keep children and pets away from the charger and charging cable. Do not allow them to play near or with the equipment.
- Radio waves from the charger may interfere with implanted medical devices such as pacemakers, cochlear implants, and hearing aids. Consult your medical device manufacturer before use.



**Caution**

- Insert the charging connector fully and securely into the vehicle inlet before starting a charging session.
- Arrange charging cables to prevent tripping hazards or obstruction.

**Note**

- Always follow the instructions in the vehicle manufacturer's manual before charging.
- Handle the charger and cable with care. Do not drop, step on, crush, fold, or apply pressure with sharp objects.
- Store the charging connector in its holster when not in use to avoid contamination or moisture ingress.

## 1.7 Fire and overheating protection

**Danger**

- Do not cover or obstruct the charger during operation.
- Stop using the charger immediately if you notice smoke, unusual smells, sparks, or excessive heat. Disconnect power from the upstream breaker or emergency stop switch and contact service personnel.
- Do not exceed the rated load capacity of the charger or site electrical system.

## 1.8 Emergency situations

**Danger**

### In case of fire, smoke, or electric shock:

- Immediately stop charging using the vehicle controls or emergency stop switch.
- Disconnect power at the upstream breaker if safe to do so.
- Evacuate the area and contact emergency services.
- If the charger has been submerged, struck by lightning, or physically damaged (e.g., by vehicle impact), do not use it until inspected and approved by qualified service personnel.



## Product overview

### 2.1 M-EV Charger Introduction

#### 2.1.1 Functional Characteristics

The Caro Pro described in this document is designed for the EU market, supporting charging for plug-in hybrid electric vehicles (PHEVs), and battery electric vehicles (BEVs). It provides a Type 2 AC charging connector compliant with EU standard.

- **Reliability**

- Up to 10-year lifespan
- IK10-rated impact resistance
- IP65 all-weather protection

- **Safety**

- 30 mA Type A & 6 mA DC leakage protection
- Cybersecurity charging system
- Reinforced insulation for improved safety

- **Scalability**

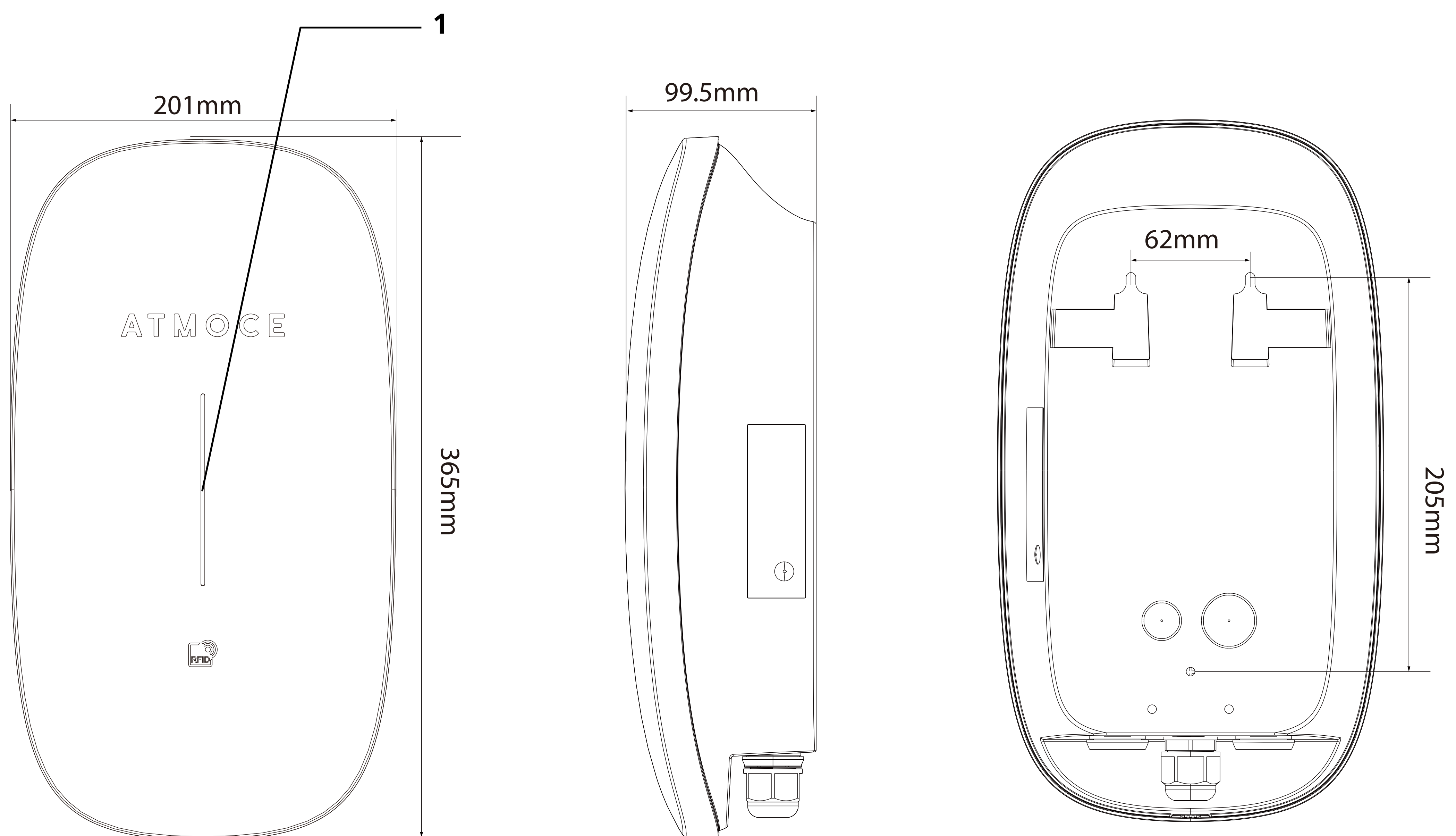
- Suitable for wall and pole mounting
- Compatible with European-standard EVs
- Flexible charging modes: Plug & Play / RFID / App

- **Smart**

- Scheduled charging: automatic off-peak scheduling
- Smart charging: solar-first charging strategy
- Dynamic load balancing



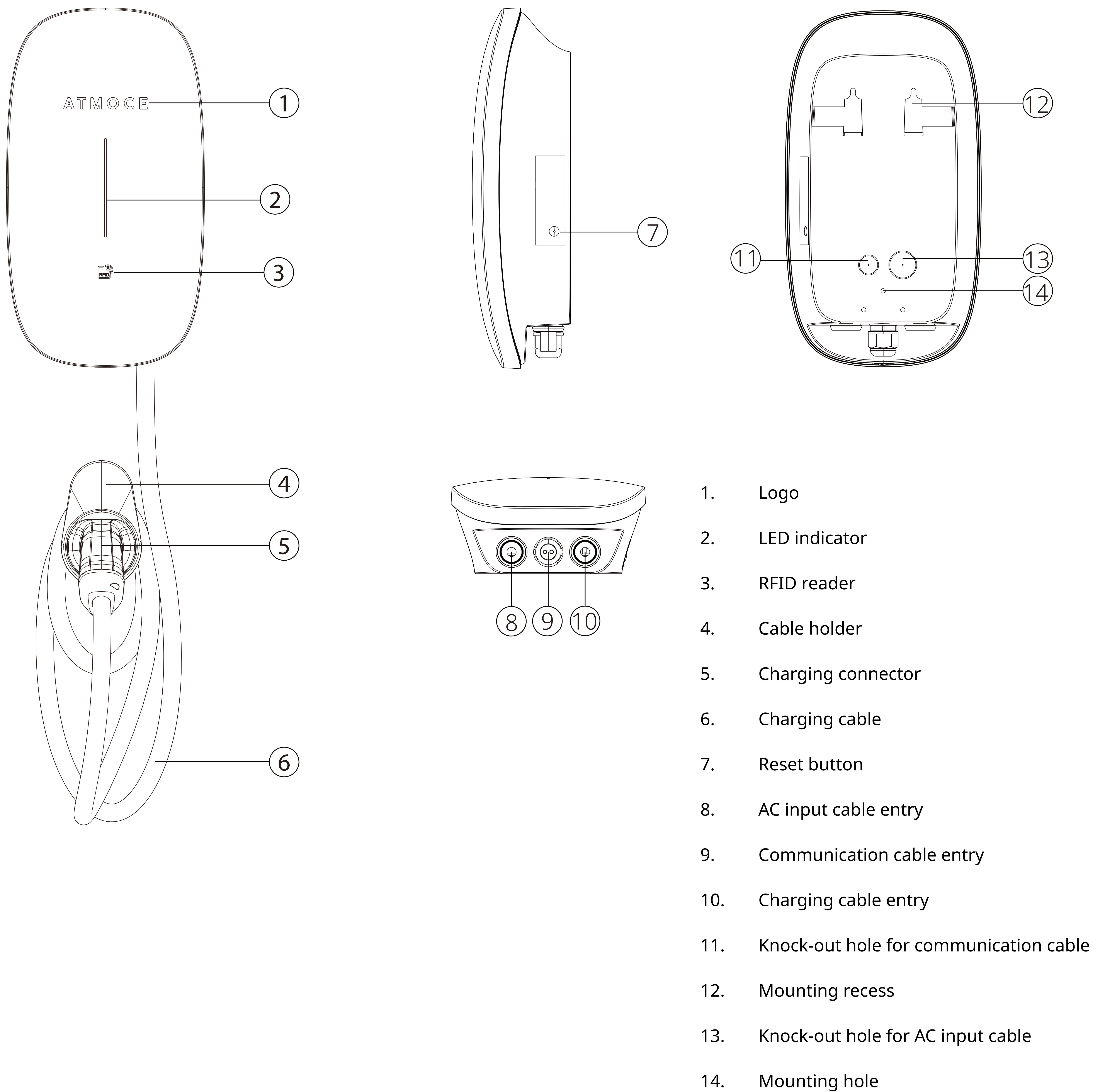
## 2.1.2 Structure dimension



1. LED indicator



## 2.1.3 Exterior overview





## Storage Requirements

- Chargers should be transported in the original packages. Do not place other objects on the top of the charger.
- Before transportation, store the product in a clean, dry, and well ventilated place with a relative humidity of not more than 80% and free from corrosive gases.
- The environmental specifications for storage and transportation shall not go beyond those specified in the Technical Specifications.



# MEV-7K-S Installation

## 4.1 Pre-installation Requirements

### 4.1.1 Electrical preparation

- Calculate the existing electrical load to determine the available operating current.
- Calculate the distance to ensure minimal voltage drop.
- Use only copper conductors.
- Use copper wiring that meets local wiring regulations. The selected cable must support a continuous load of 32 A.
- The selected circuit protection device must include a Type A residual current device (RCD) and appropriate overcurrent protection.
- Install an approved Isolation switch.

### 4.1.2 Cable requirements

To properly set up the system, it is necessary to select the appropriate cables. The table below shows the recommended cable requirements.

| Item                   | Specification                                                       |
|------------------------|---------------------------------------------------------------------|
| AC input cable         | • 6 mm <sup>2</sup>                                                 |
| RJ45 cable & connector | • Cat 5e, connector (standard)                                      |
| RCBO                   | • 2P RCBO, C40, 40 A, Type A, in compliance with local regulations. |

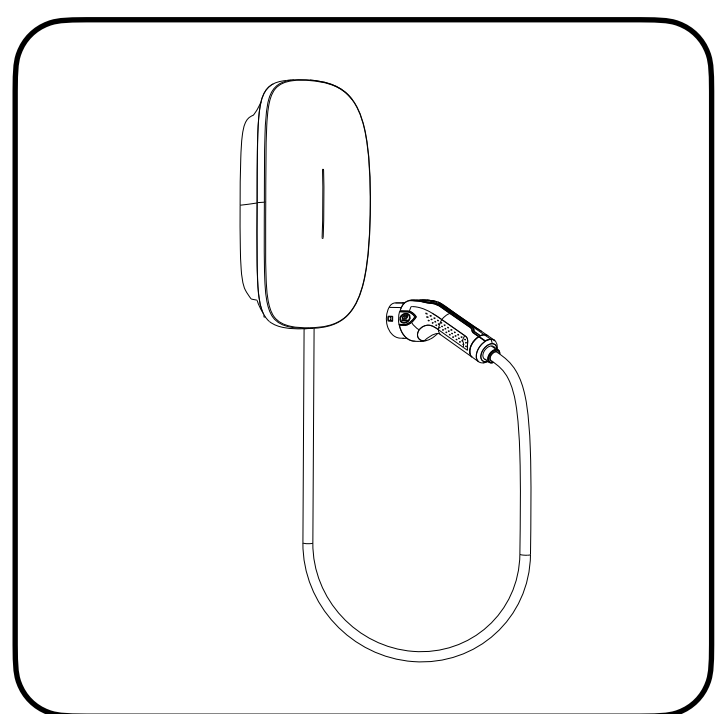
### NOTE:

- RJ45 cable & connector: Required only when wired communication is used.
- The following items are not supplied and are customer-provided.

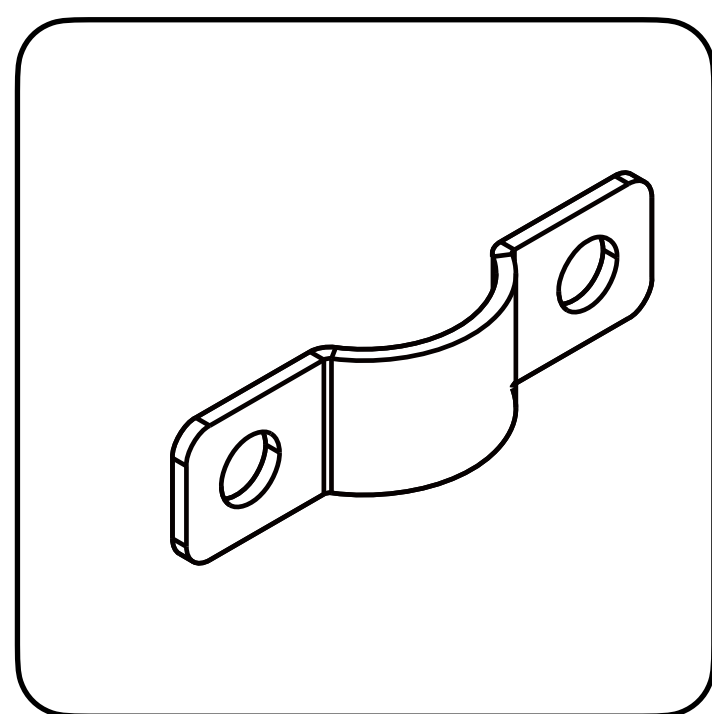


### 4.1.3 MEV-7K-S Packing list

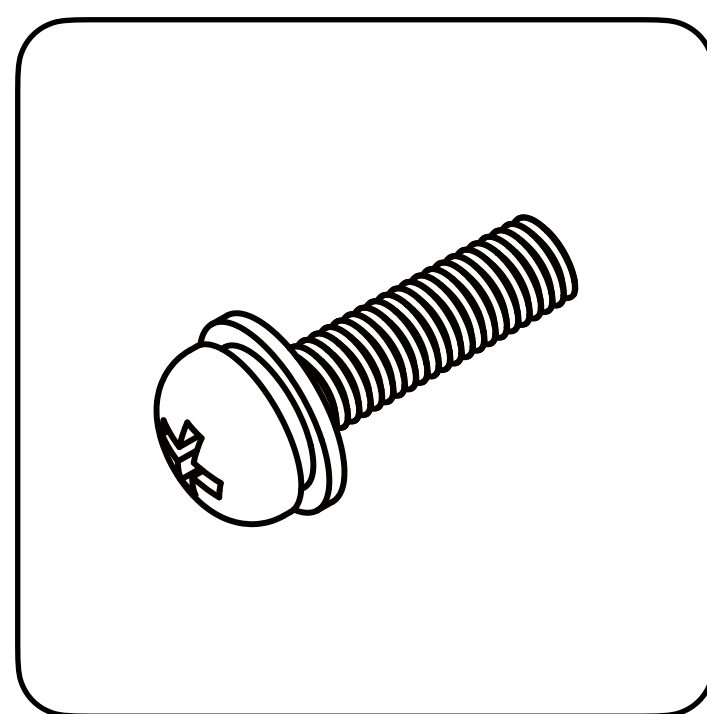
Upon receipt of your shipment, kindly verify the contents against the packing list. Should any items be absent, do not hesitate to reach out to us.



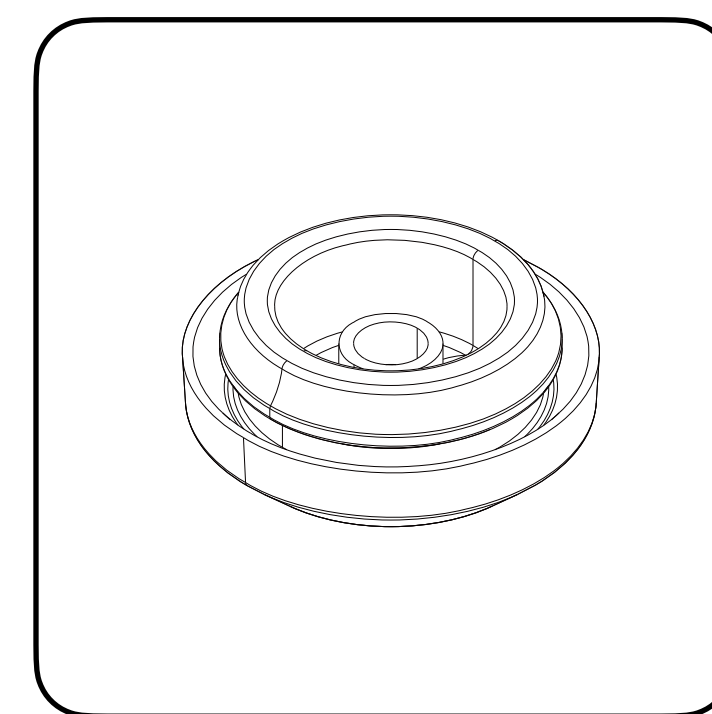
M-EV Charger



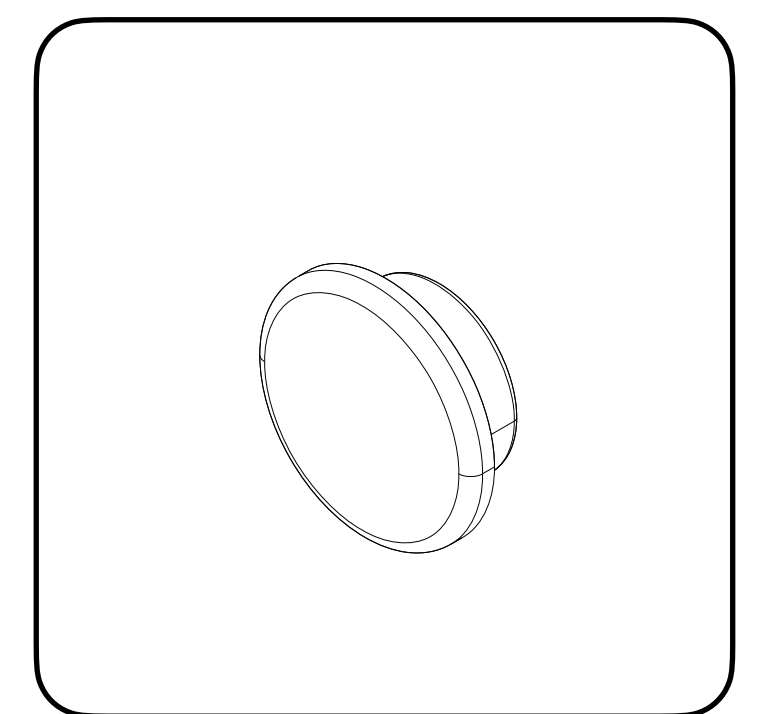
Cable clip



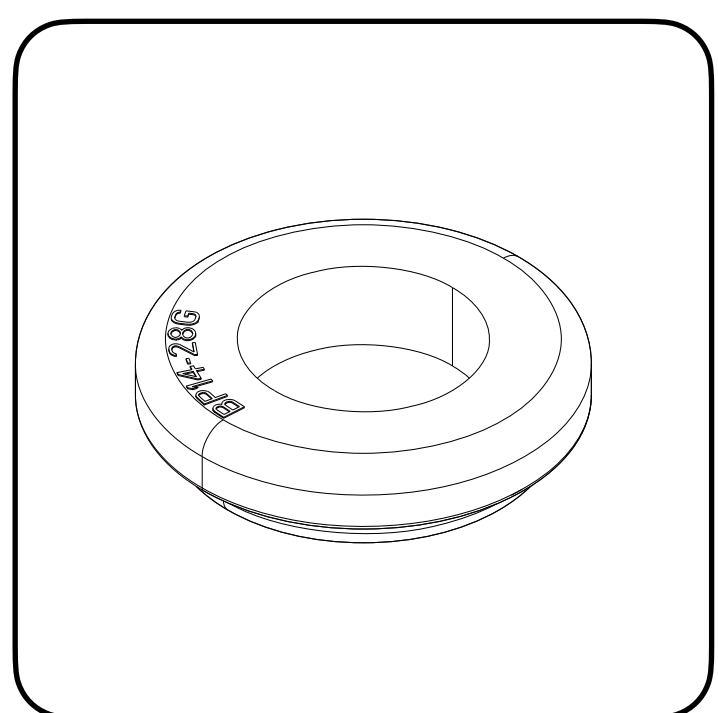
M3\*12 Screw



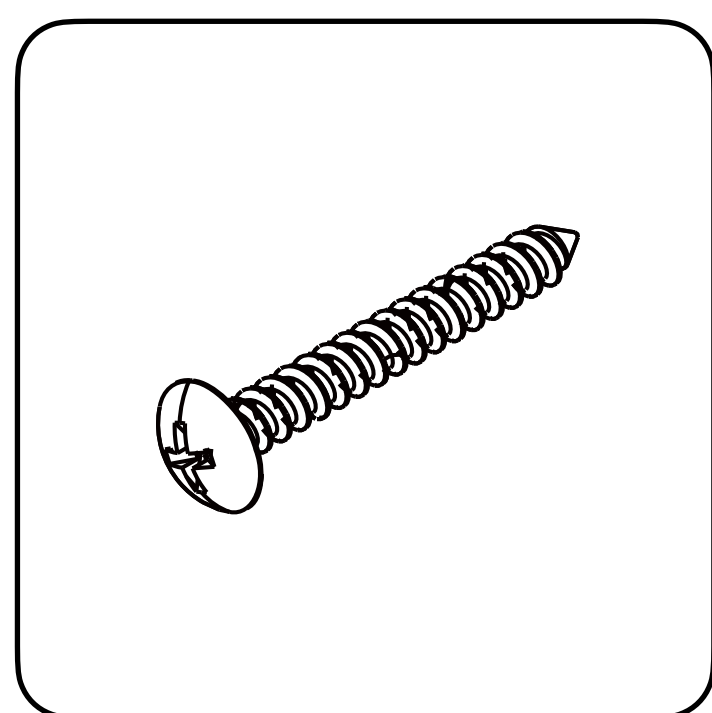
Sealing ring



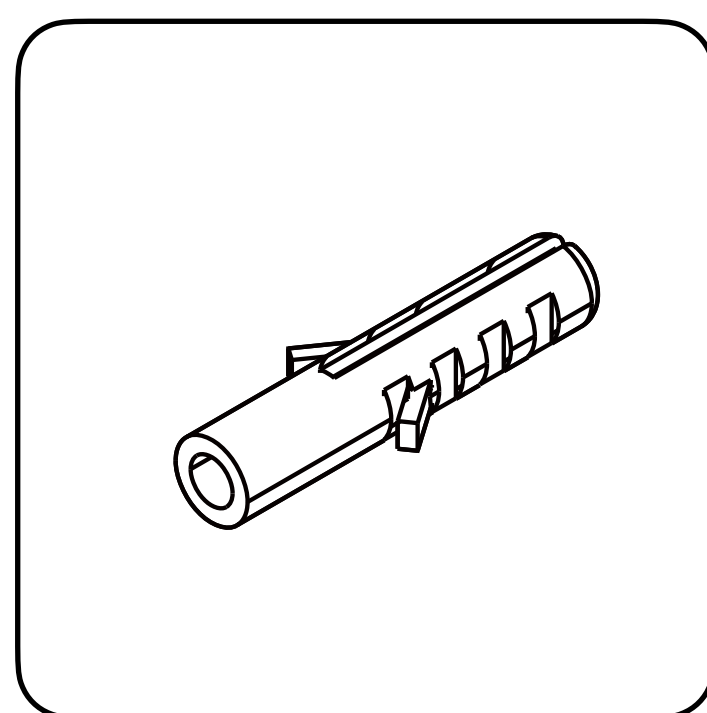
Φ11\*4.5 Black plug



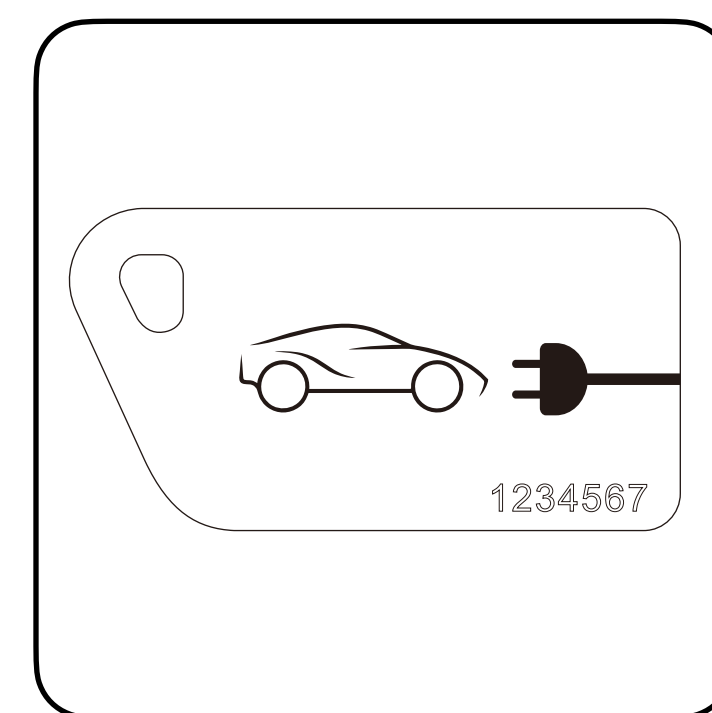
Cable Grommet



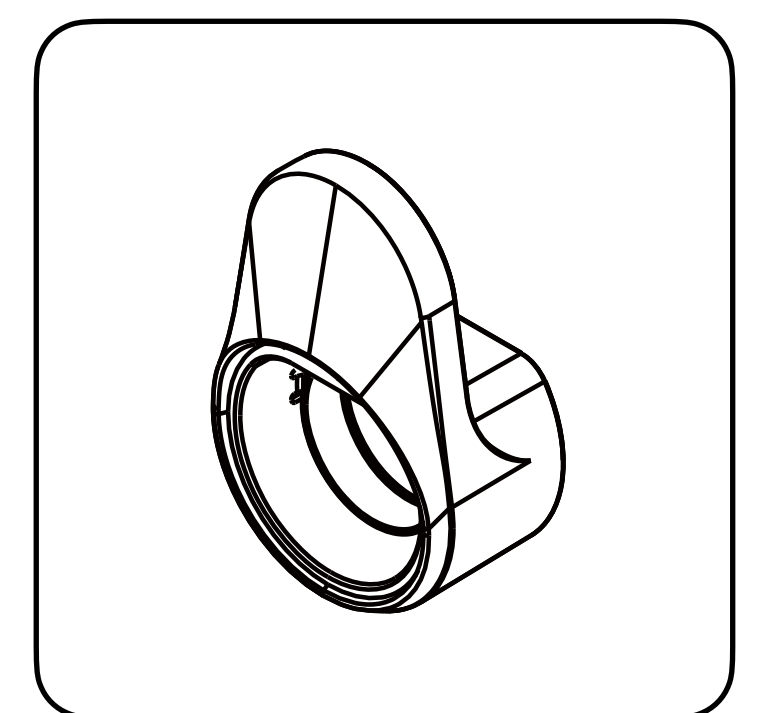
M4\*32 screw



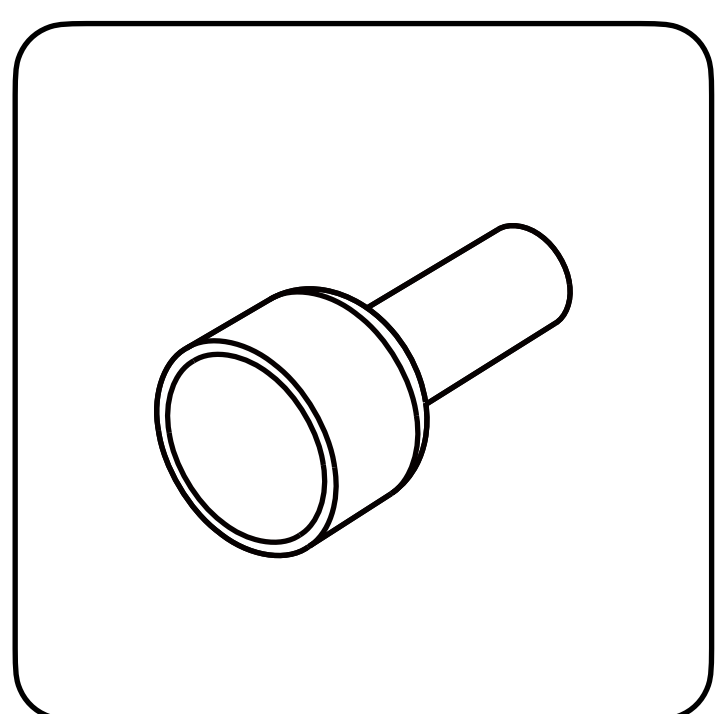
Wall plug



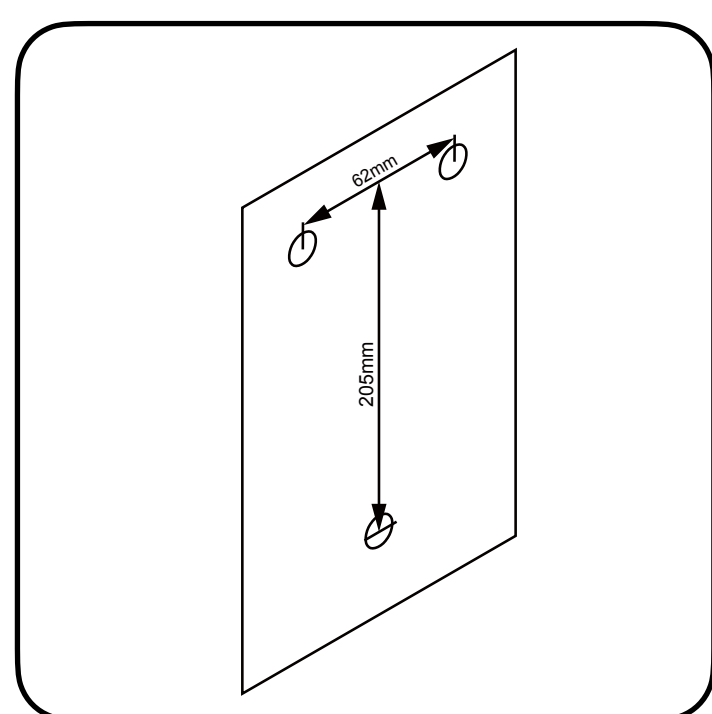
M1 card



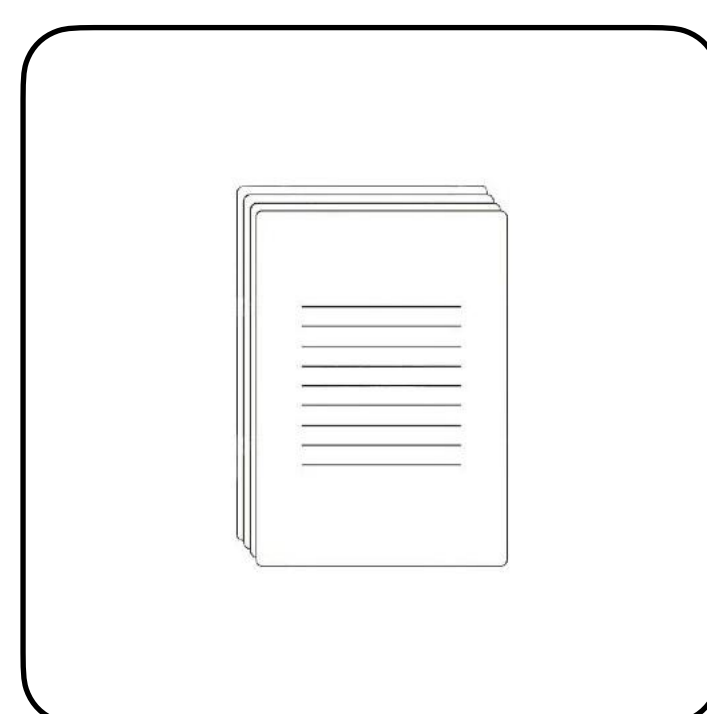
EV Socket



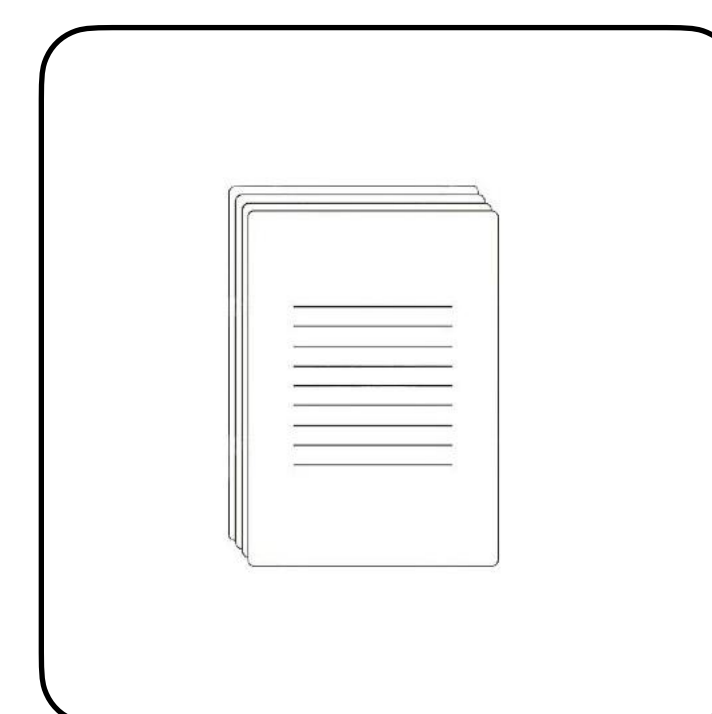
Cord End Terminal



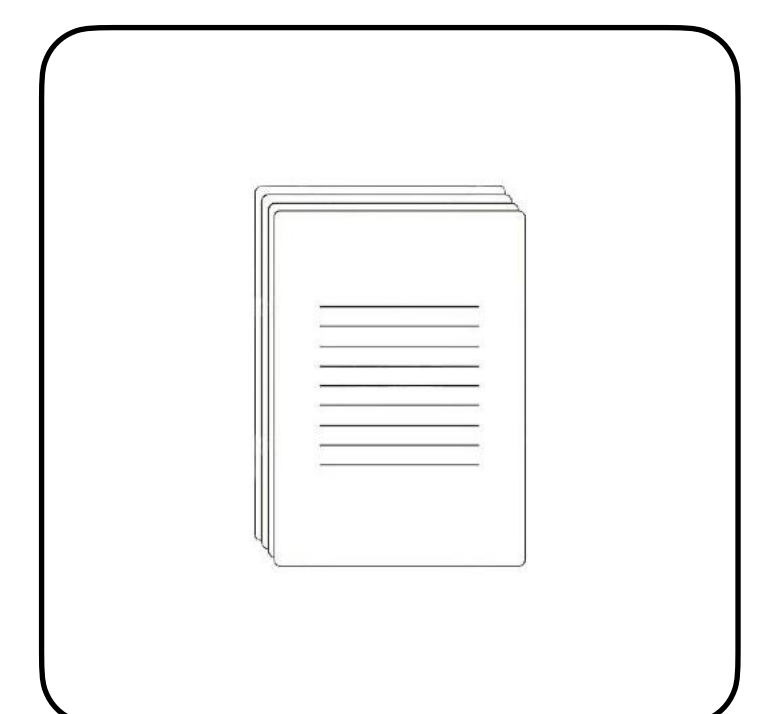
Mounting Positon Diagram



Password Label



Delivery Inspection Report



Installation Guide



4.1.4 Required tools

| Tools               | Specification     |
|---------------------|-------------------|
| Tape measure        | 5 m               |
| Marking tool        | Pencil            |
| Level               | Standard          |
| Philips screwdriver | PH2               |
| Hammer              | Standard          |
| Drill               | Drill bit: Φ6 mm  |
| Wire stripper       | 6 mm <sup>2</sup> |
| Crimping tool       | 6 mm <sup>2</sup> |
| Digital multimeter  | Standard          |
| Voltage tester      | Standard          |

**NOTE:**

- The following items are not supplied and are customer-provided.

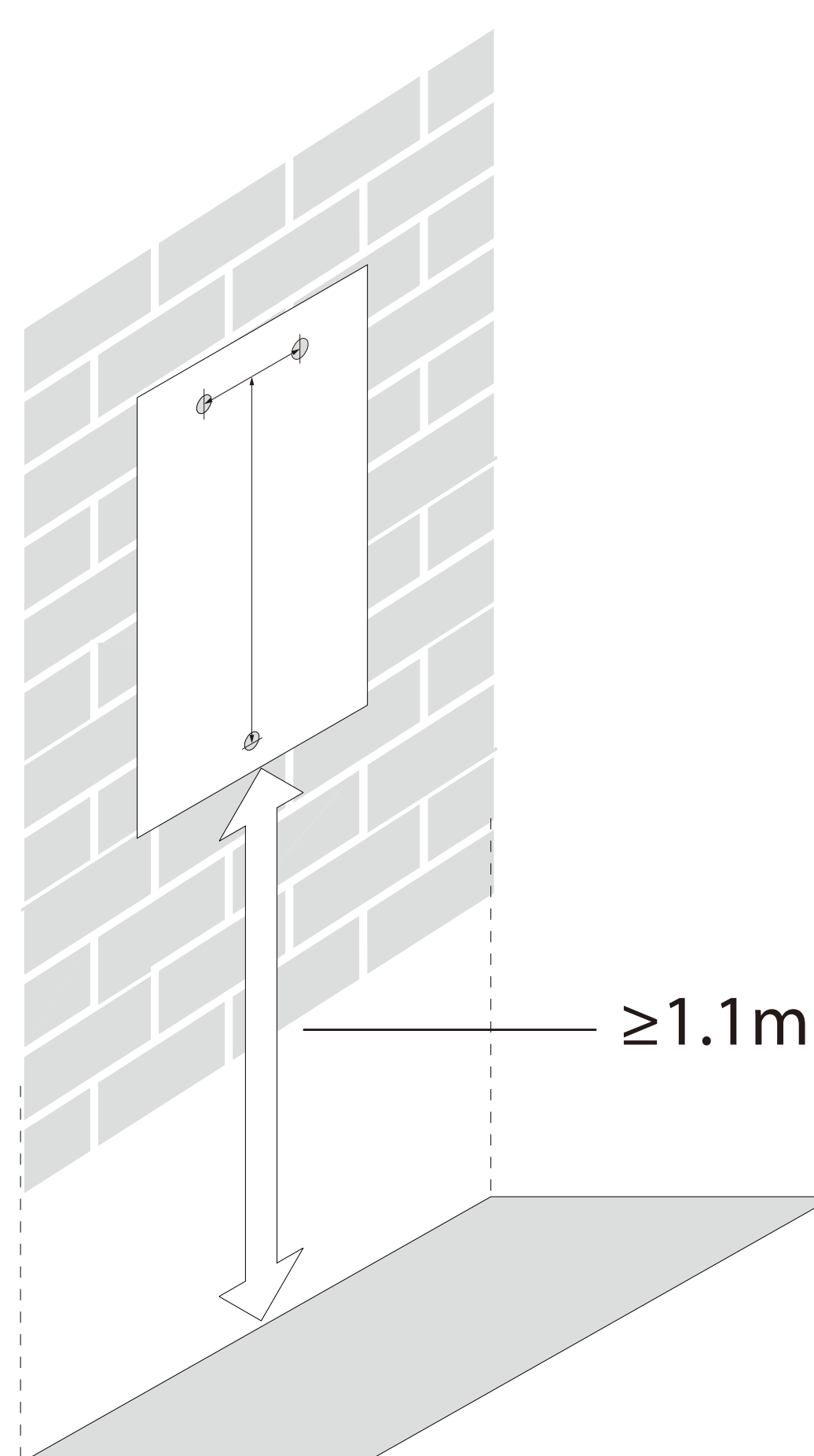
4.1.5 Confirm installation position

- Ensure that the parking position is within range of the charging cable.
- Ensure there is enough clearance for the charging cable to wrap around the wall charger box.
- Ensure that the charging handle can be comfortably inserted into the side of the wall charger.
- For outdoor installations, provide shelter from persistent rain.
- Install in a well ventilated space. Avoid installation and enclosed boxes close to high-power appliances and gas bottles.



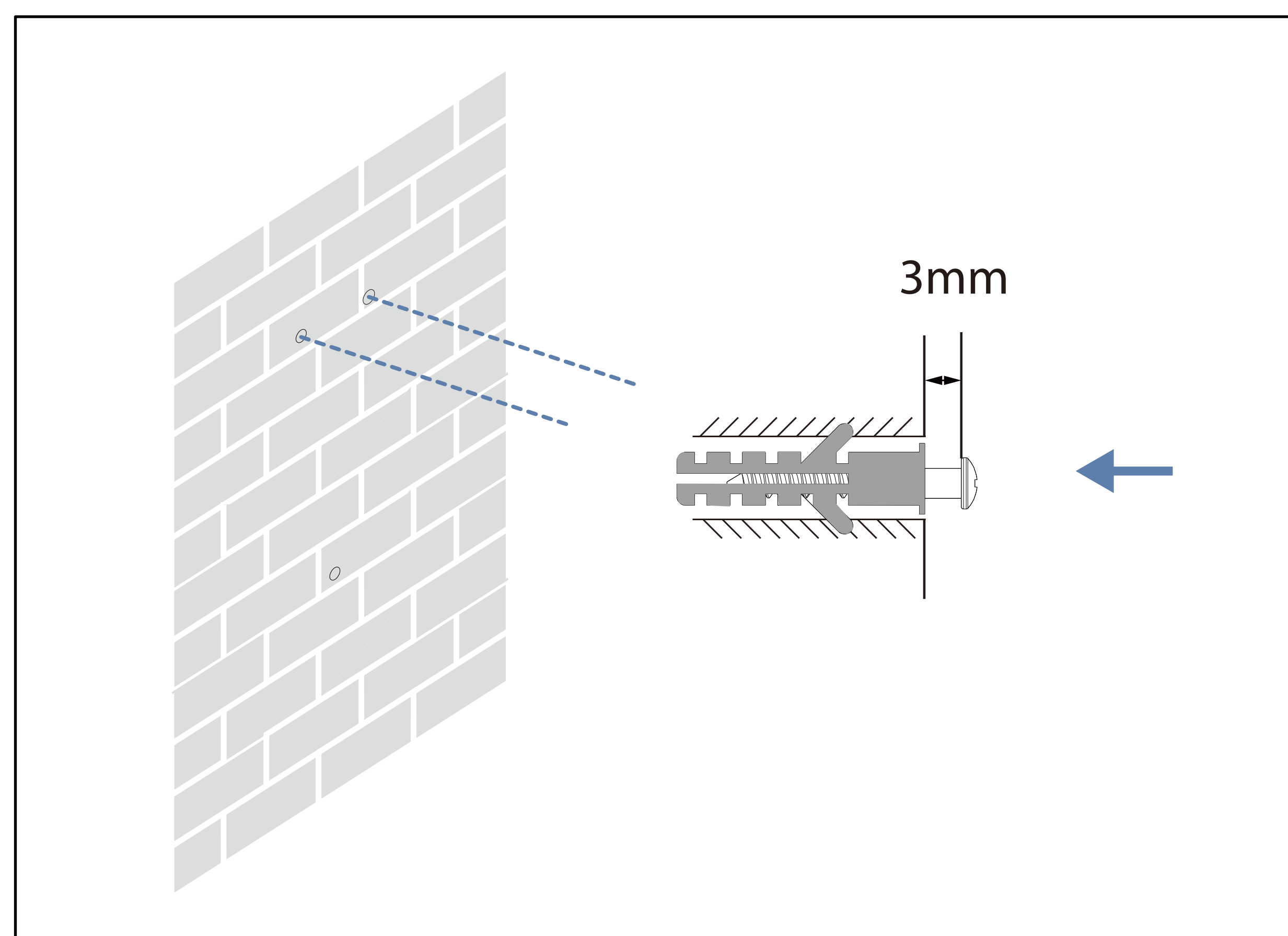
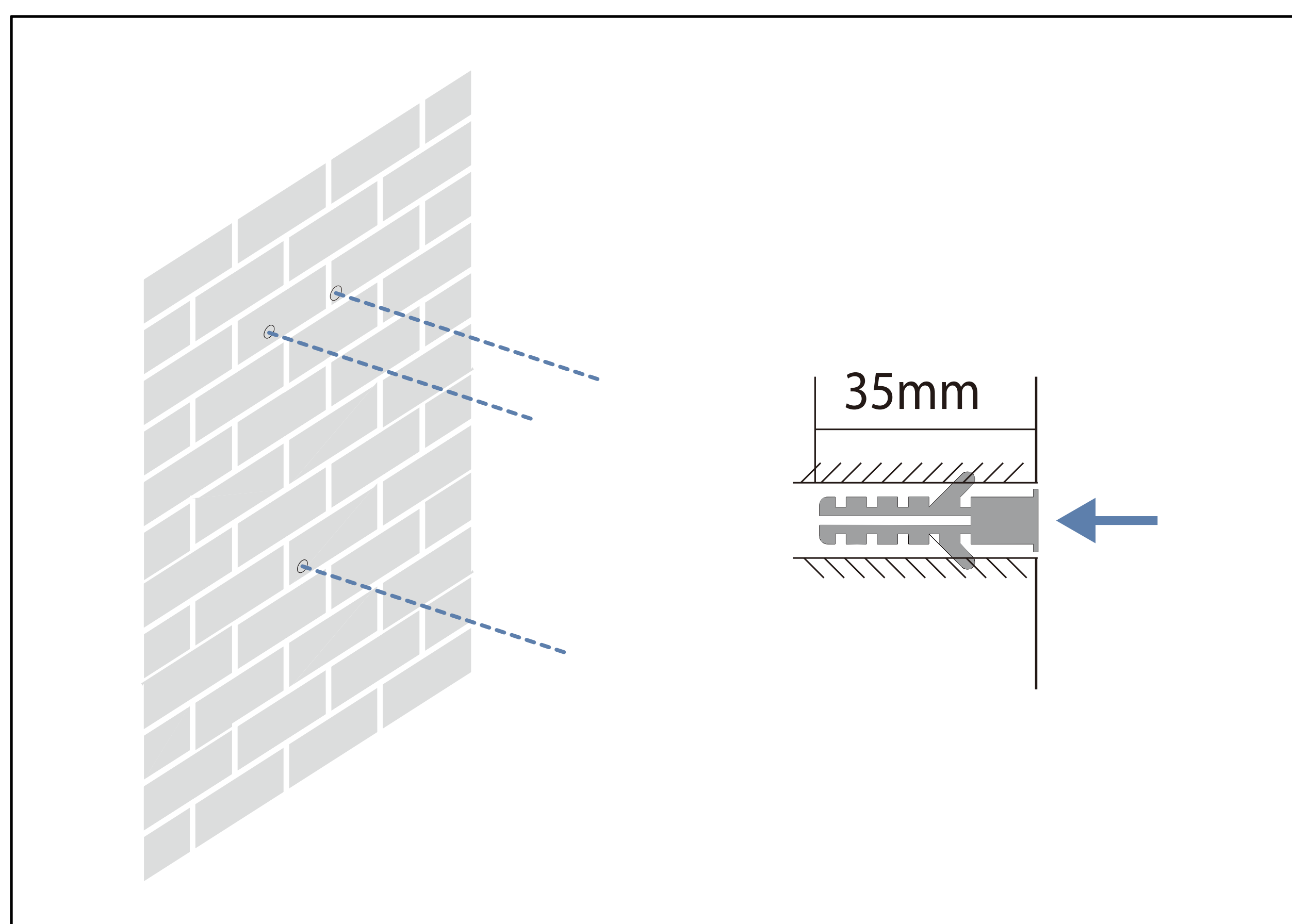
## 4.2 Drill holes

- Use the provided mounting template and align it on the wall at a height of at least 1.1 meters from the ground.
- Mark the positions of the 3 mounting holes.
- Use a 6mm diameter drill bit to drill 3 holes, each 35 mm deep.



## 4.3 Insert wall plugs

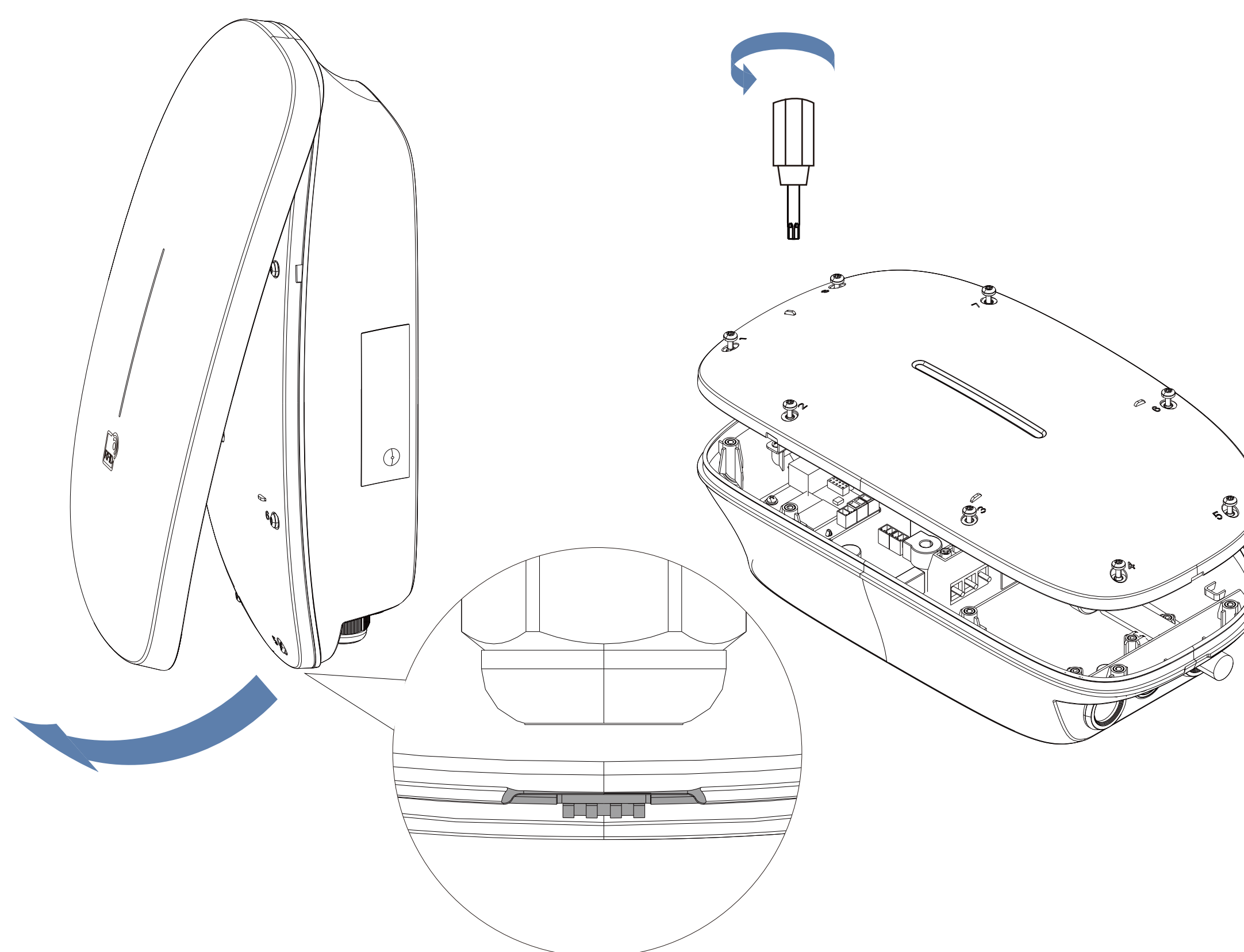
- Insert 3 wall plugs into the drilled holes.
- Insert 2 M4\*32 screws into the upper 2 wall plugs.





## 4.4 Detach the cover

- Insert your fingers into the notch at the bottom and pull the front cover outward to detach it.
- Remove the middle cover by loosening the 8 screws.



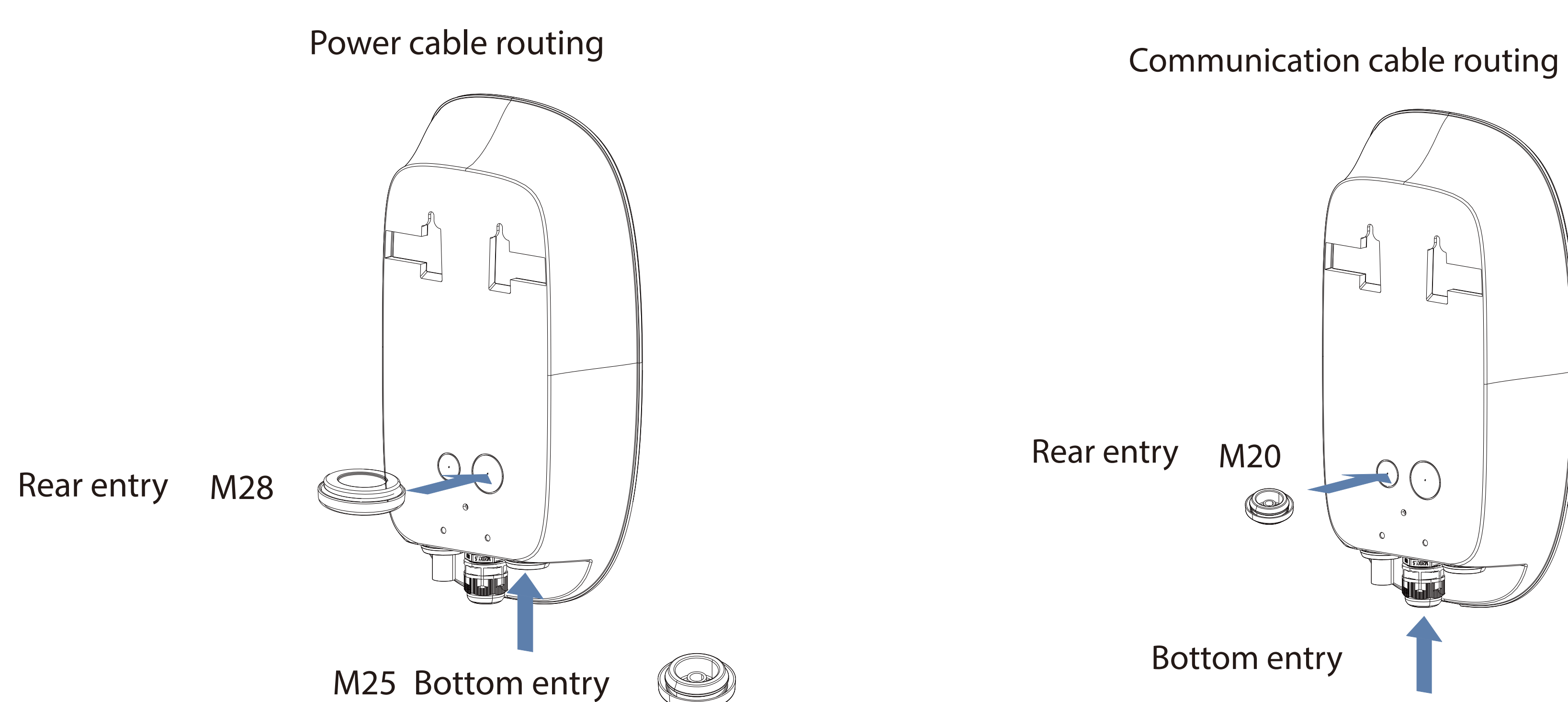
## 4.5 Confirm the cable entry

### Bottom Entry:

- Secure the AC input cable using the provided M25 cable grommet and the communication cable using the equipped cable gland.

### Rear Entry:

- Punch out the knock-out holes and secure the AC input cable with a M28 grommet and the communication cable with a M20 grommet.



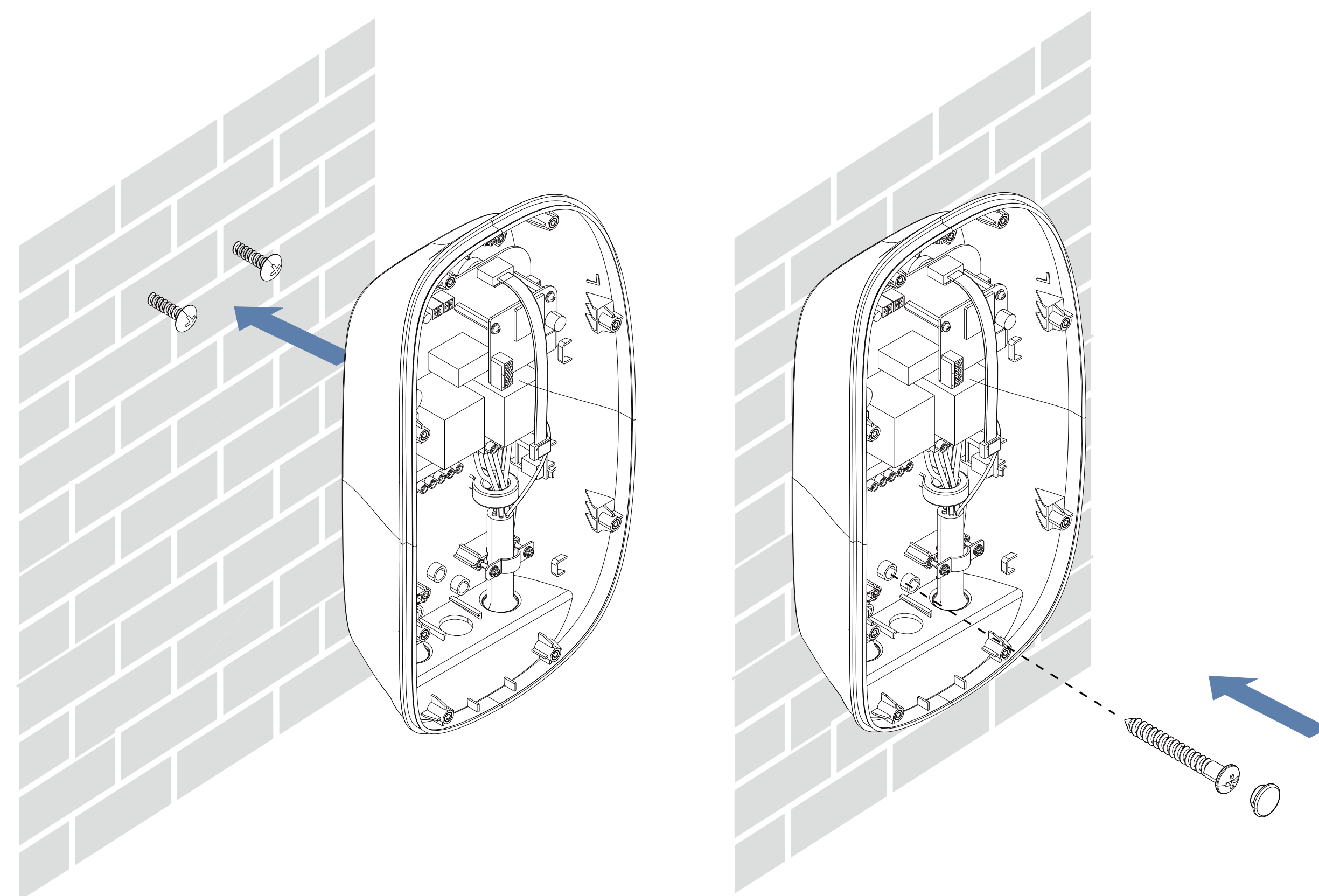
## NOTE:

- If rear entry is selected, install the M25 cable grommet to seal the unused bottom AC entry.



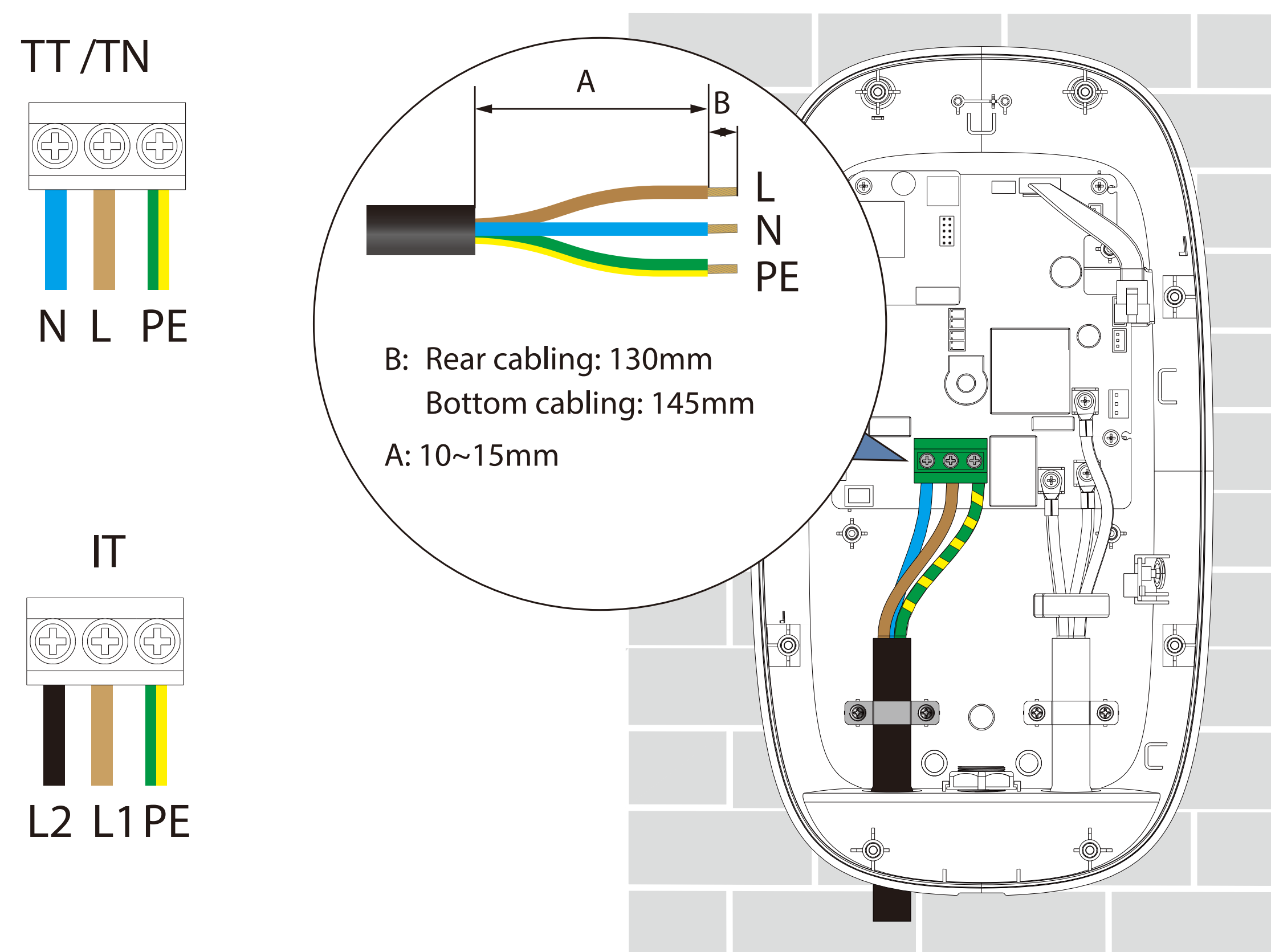
## 4.6 Secure the enclosure onto the wall

- Hang the charger onto the upper two screws.
- Secure the lower middle part of the enclosure using one M4\*32mm screw. M4: 0.6~1.2 N.m



## 4.7 Connect the AC input power cable

- Thread the AC input cable into the cable inlet.
- Strip wires to expose 10 mm to 15 mm of conductor and crimp them into bootlace ferrules.
- Insert the wires into the terminal block and tighten them, and then secure the cable with the cable clip using two M3\*12 mm screws.



### NOTE:

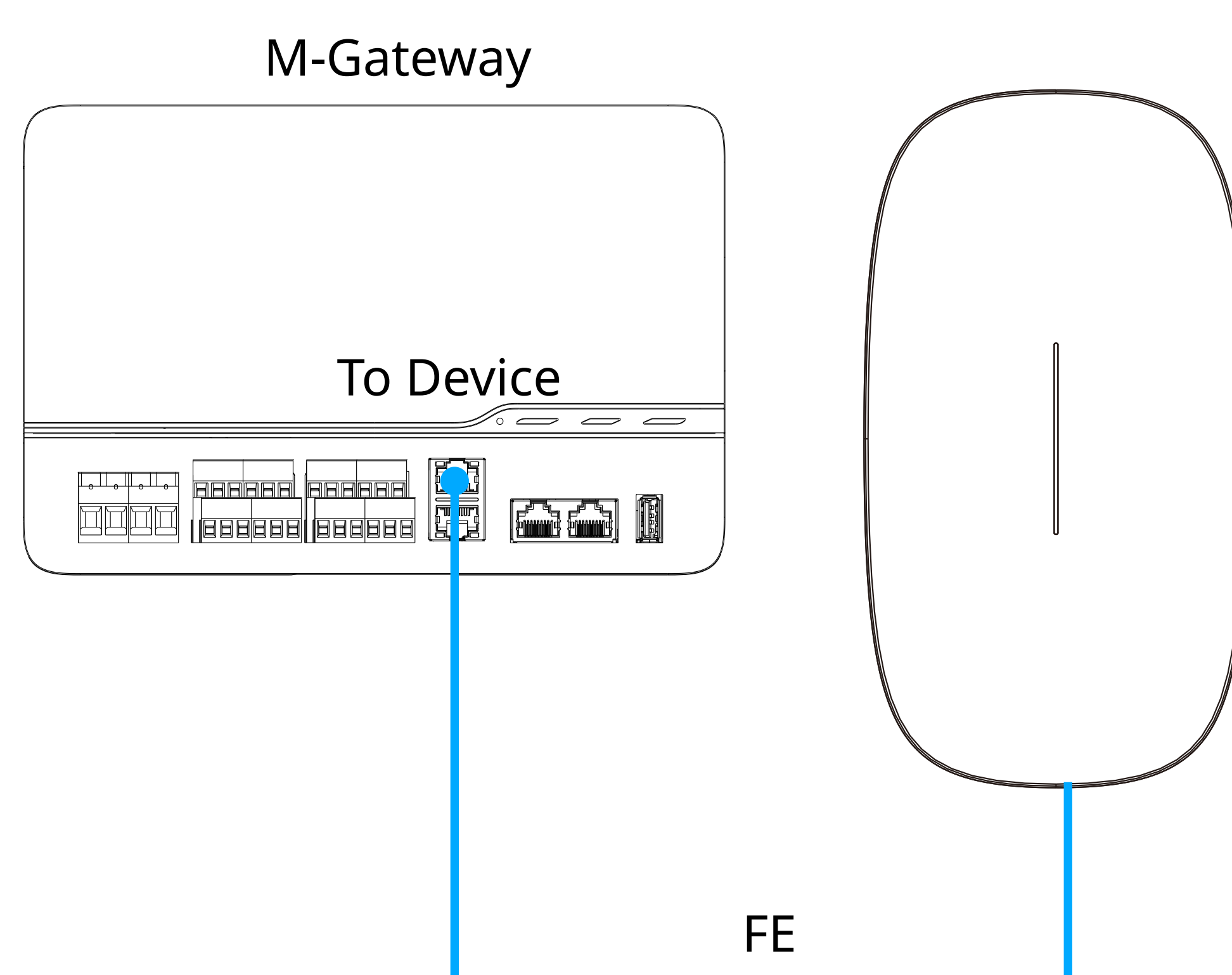
- Ensure that the power supply is cut off before connecting AC input wire.



## 4.8 Connection to Gateway

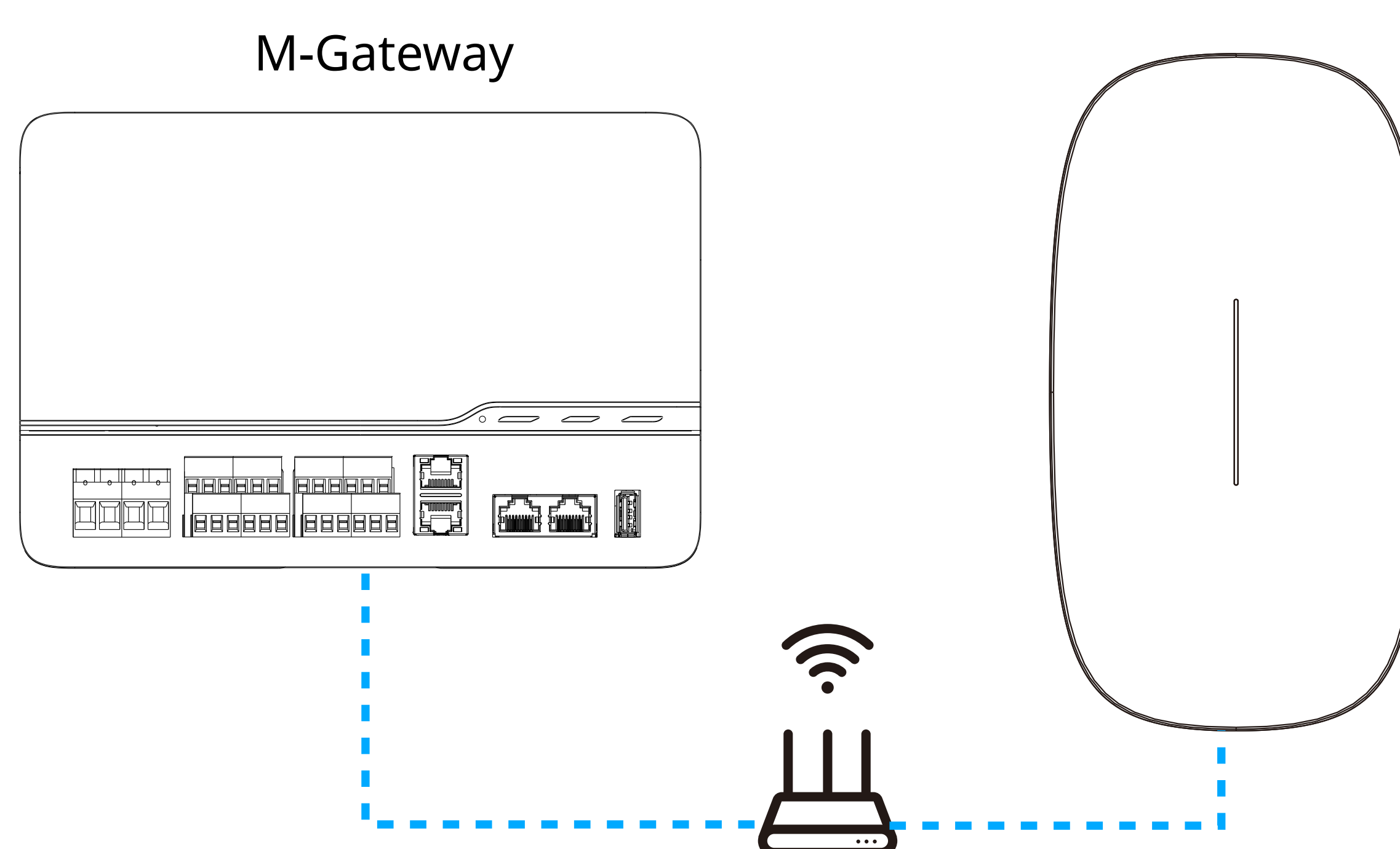
### 4.8.1 Direct FE Connection

- The gateway connects directly to the charger through the FE port.



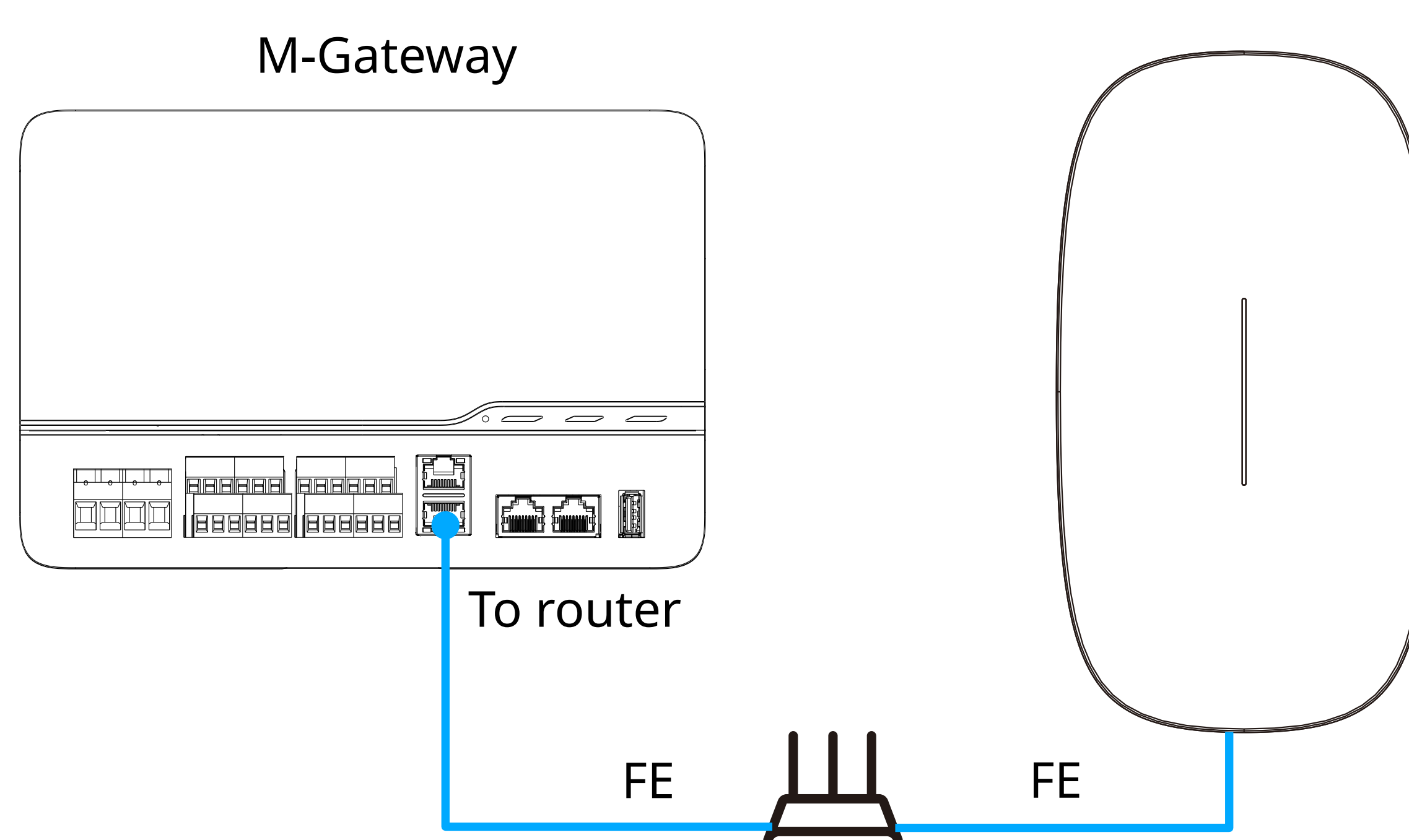
### 4.8.2 Wi-Fi Router Networking

- Both the gateway and the charger connect to the same router via Wi-Fi for automatic network access.



### 4.8.3 FE Router Networking

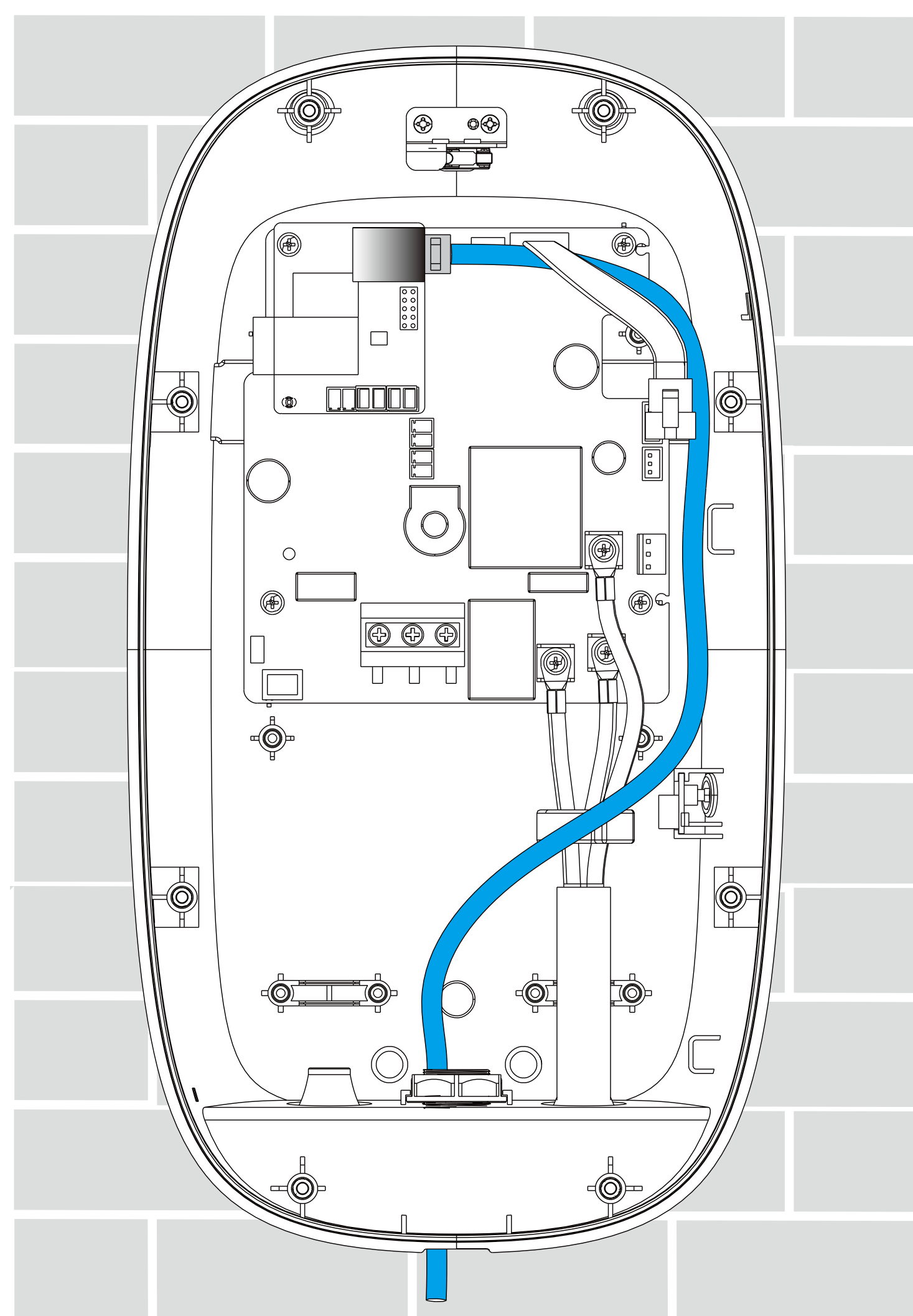
- Both the gateway and the charger connect to the same router through FE ports for automatic network access.





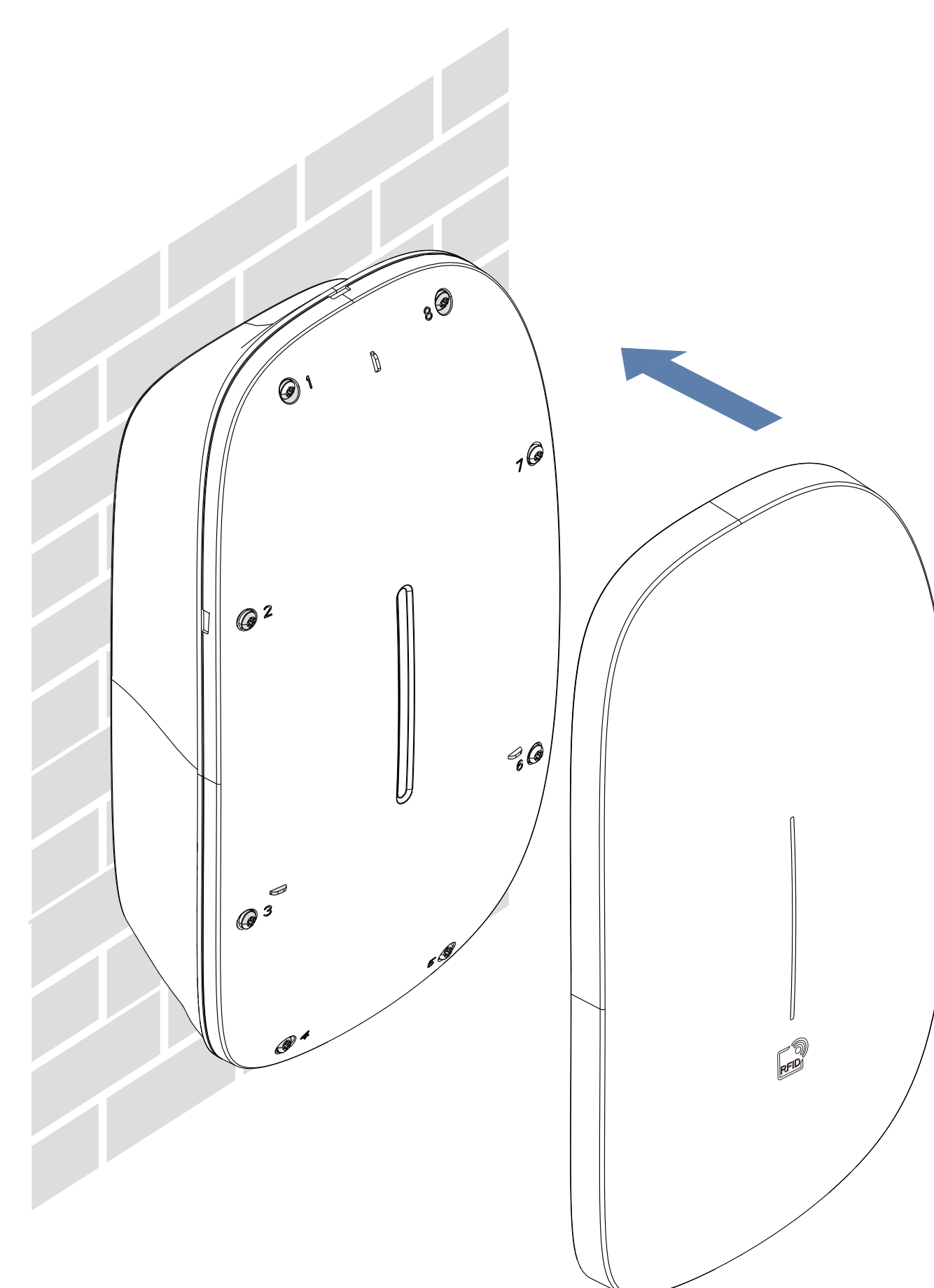
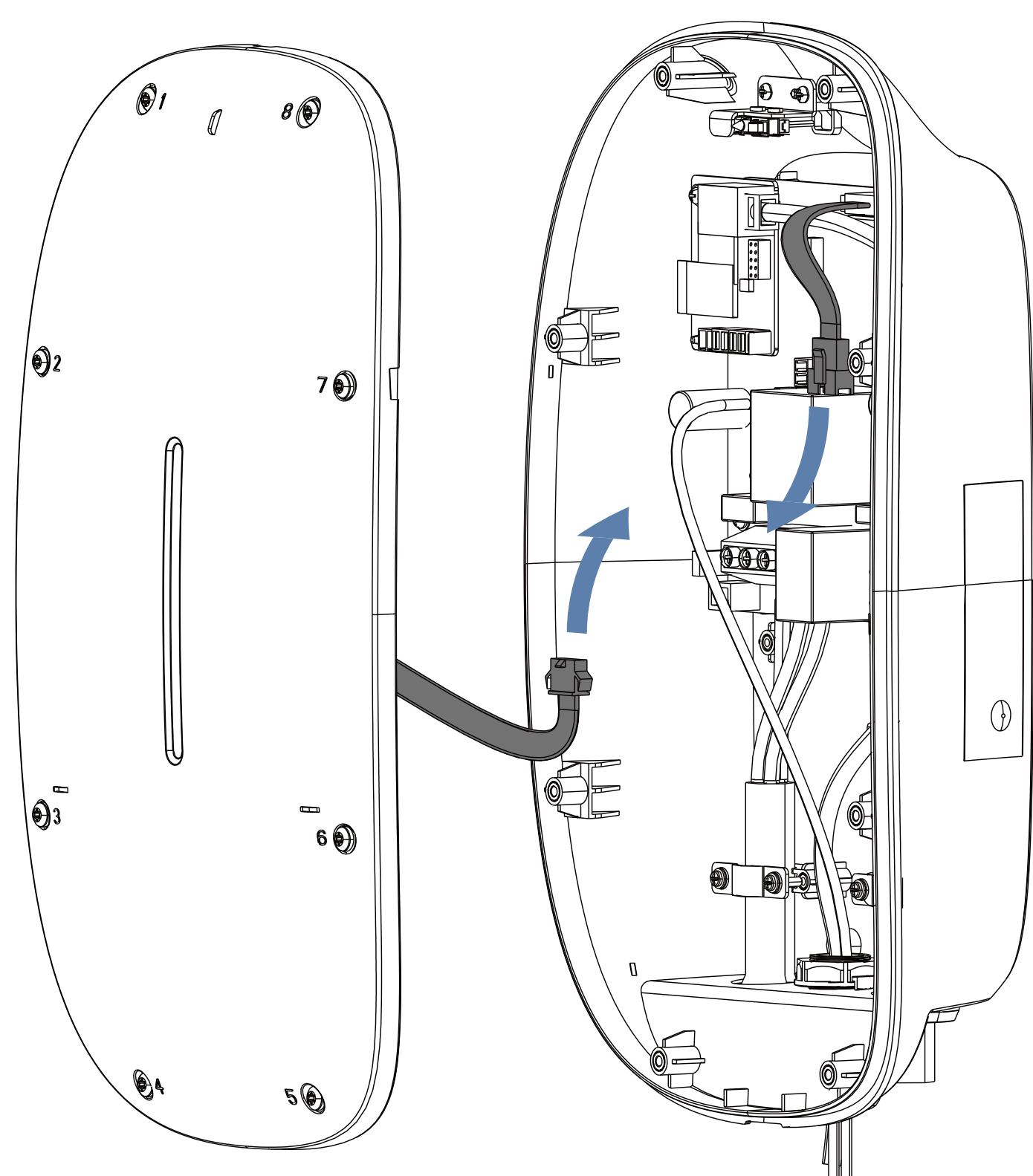
## 4.9 Connect the ethernet cable

- Feed the Ethernet cable through the communication cable inlet, run it to the top module, and connect it to the module's port.



## 4.10 Reattach the cover

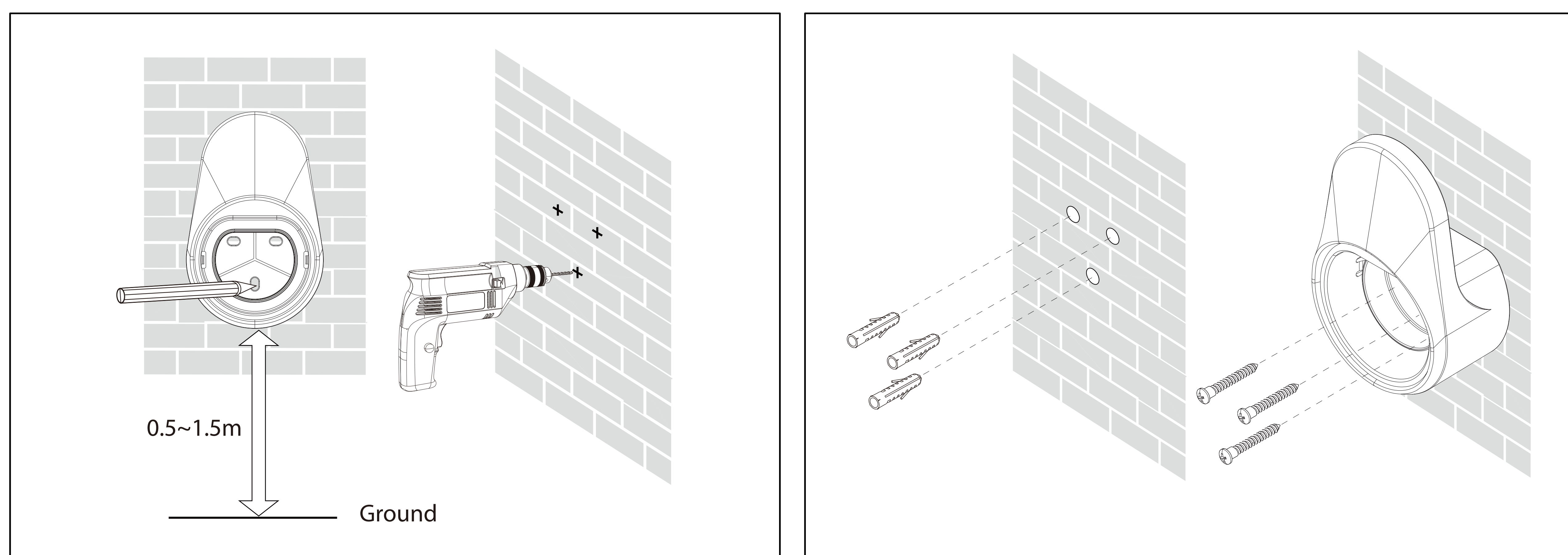
- Connect the two jumper wires.
- Ensure they are firmly inserted and secured before proceeding to close the cover.
- Tighten the eight screws in the middle cover.
- Install the decorative cover back. M4: 0.6~1.2 N.m.





## 4.11 Install the cable holder

- Choose a location 0.5~1.5 m above ground and close to the charger for convenience.
- Hold the cable holder against the wall.
- Use a pencil to mark the three fixing 0.5~1.5 m holes.
- Use a 6mm diameter drill bit to drill three holes, each 35 mm deep, at the marked locations.
- Insert three wall plugs into the drilled holes.
- Align holes in the cable holder with the ones on the wall.
- Secure it using three M4\*32mm screws to complete the holder installation. M4: 0.6~1.2 N.m



## 4.12 Download the ATMOZEN App

For residential charging setups, we recommend commissioning via the mobile app.

- Install the ATMOZEN App on a smartphone.
- Create an account and Log in.
- Follow the instructions on the app to complete wizard settings and parameter settings.



App download



# MEV-11K-T Installation

## 5.1 Pre-installation Requirements

### 5.1.1 Electrical preparation

- Calculate the existing electrical load to determine the available operating current.
- Calculate the distance to ensure minimal voltage drop.
- Use only copper conductors.
- Use copper wiring that meets local wiring regulations. The selected cable must support a continuous load of 16 A.
- The selected circuit protection device must include a Type A residual current device (RCD) and appropriate overcurrent protection.
- Install an approved Isolation switch.

### 5.1.2 Cable requirements

To properly set up the system, it is necessary to select the appropriate cables. The table below shows the recommended cable requirements.

| Item                   | Specification                                                       |
|------------------------|---------------------------------------------------------------------|
| AC input cable         | • 2.5 mm²                                                           |
| RJ45 cable & connector | • Cat 5e, connector (standard)                                      |
| RCBO                   | • 4P RCBO, C20, 20 A, Type A, in compliance with local regulations. |

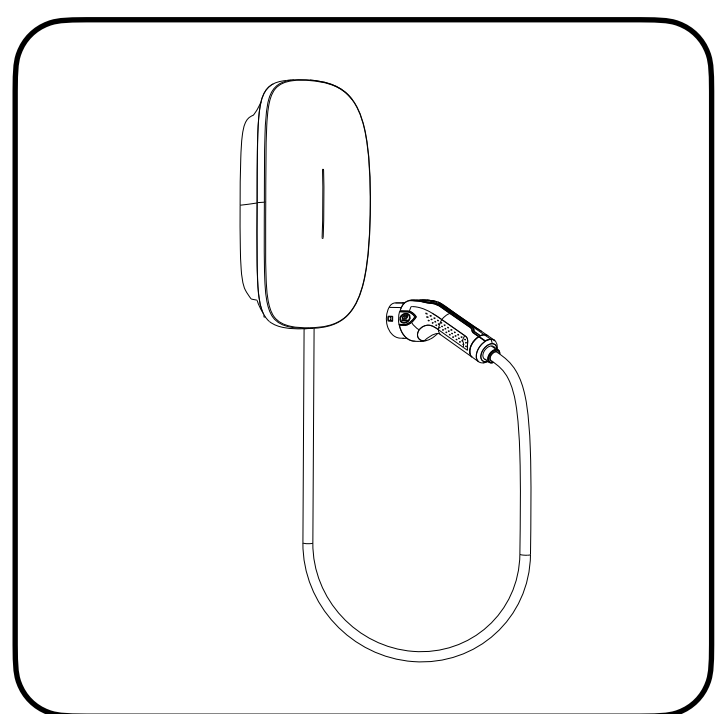
### NOTE:

- RJ45 cable & connector: Required only when wired communication is used.
- The following items are not supplied and are customer-provided.

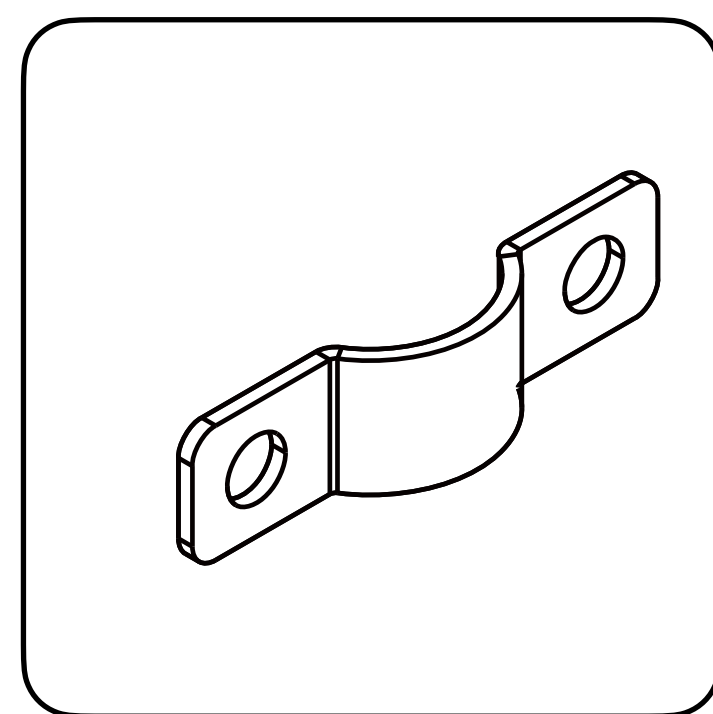


### 5.1.3 MEV-11K-T Packing list

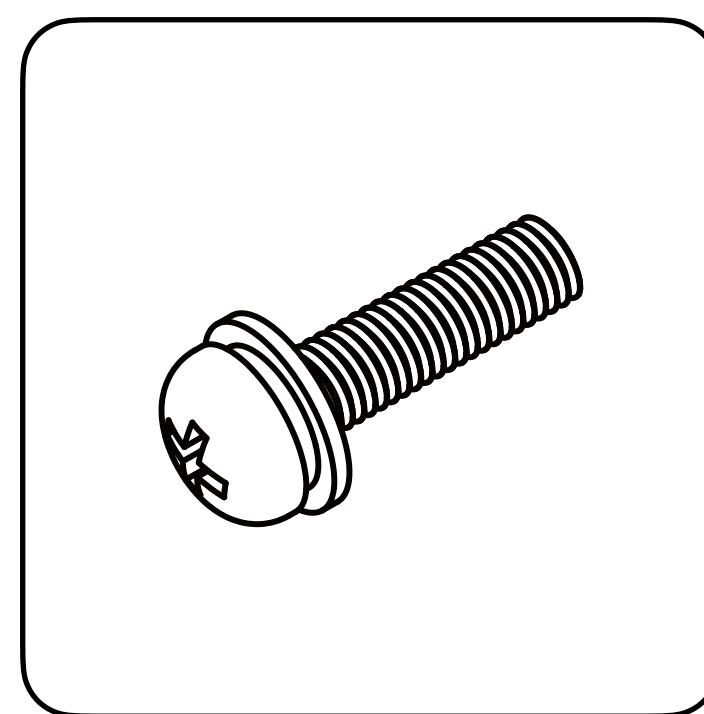
Upon receipt of your shipment, kindly verify the contents against the packing list. Should any items be absent, do not hesitate to reach out to us.



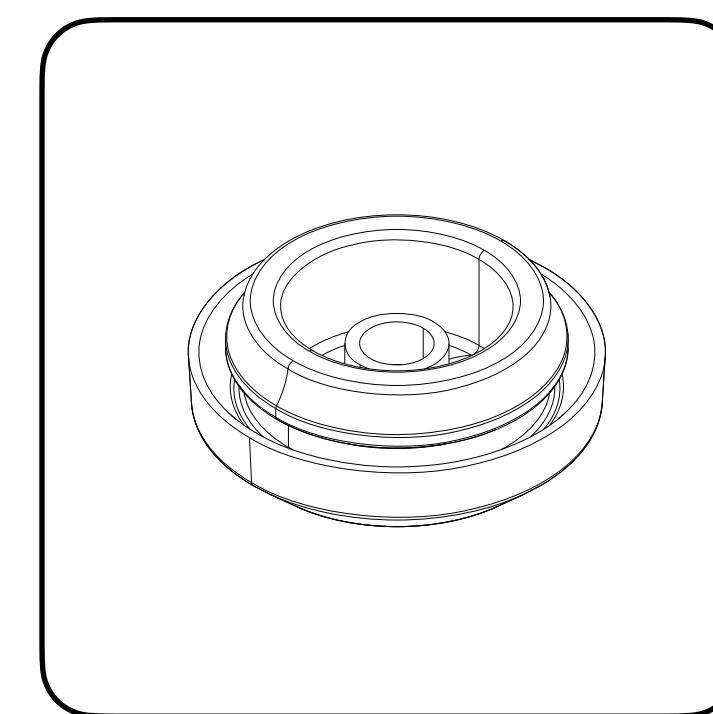
M-EV Charger



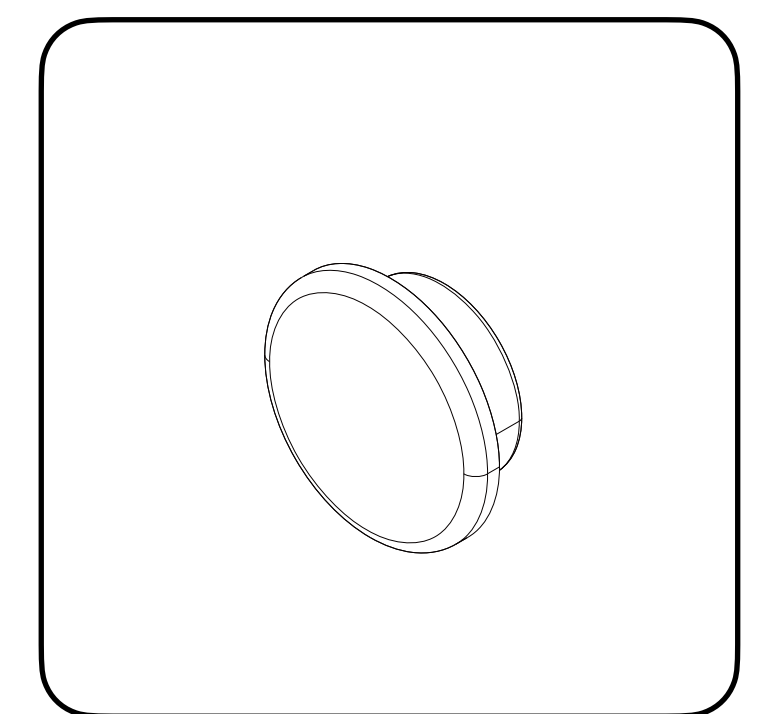
Cable clip



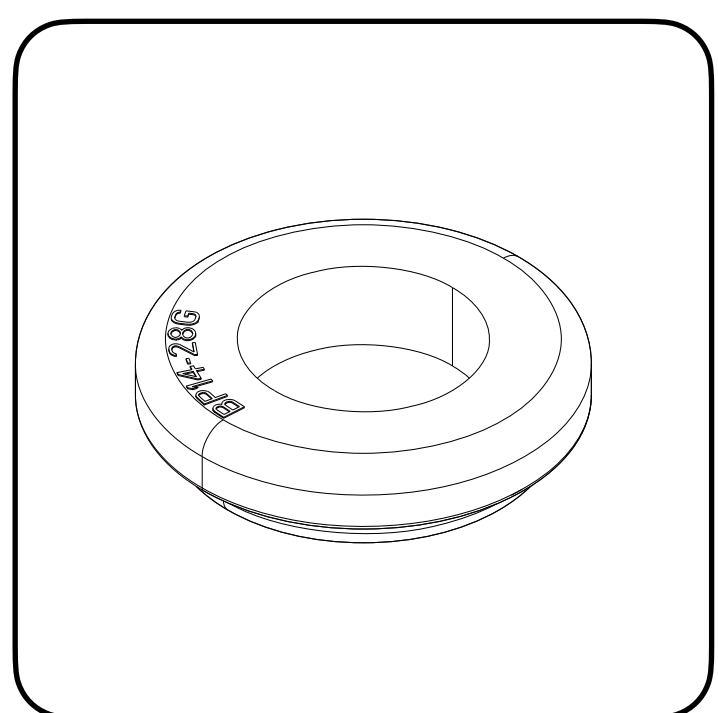
M3\*12 Screw



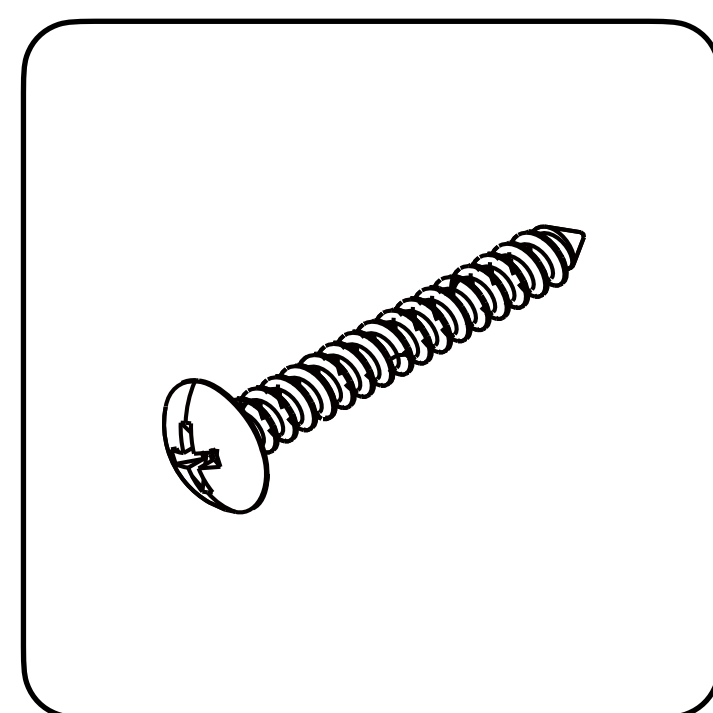
Sealing ring



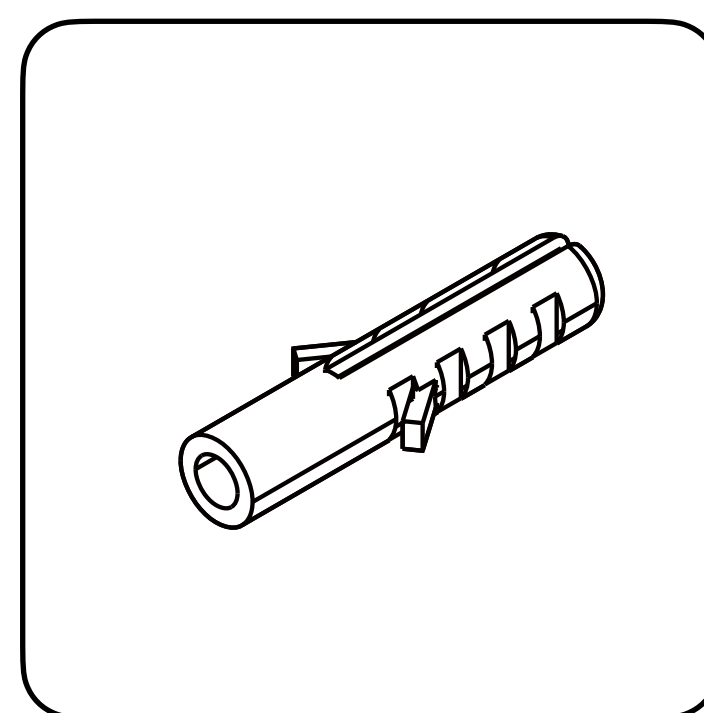
Φ11\*4.5 Black plug



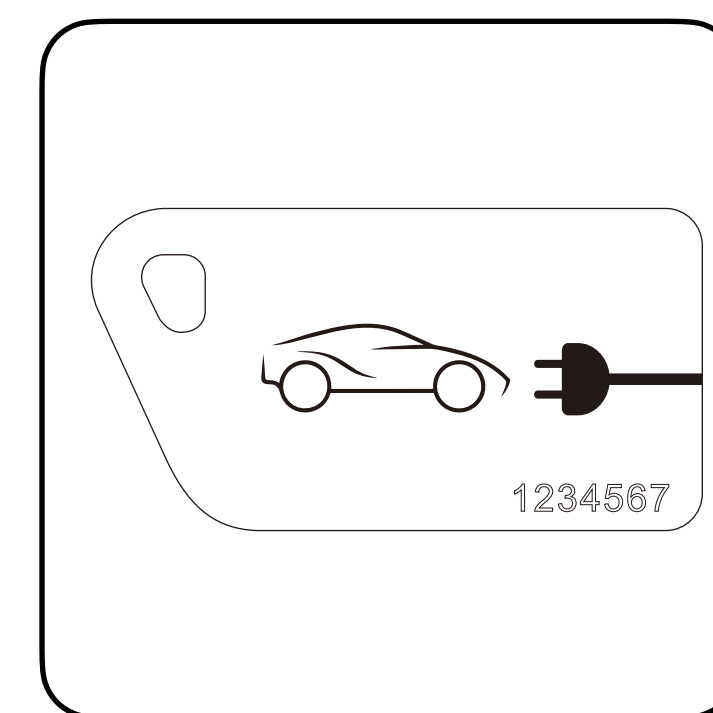
Cable Grommet



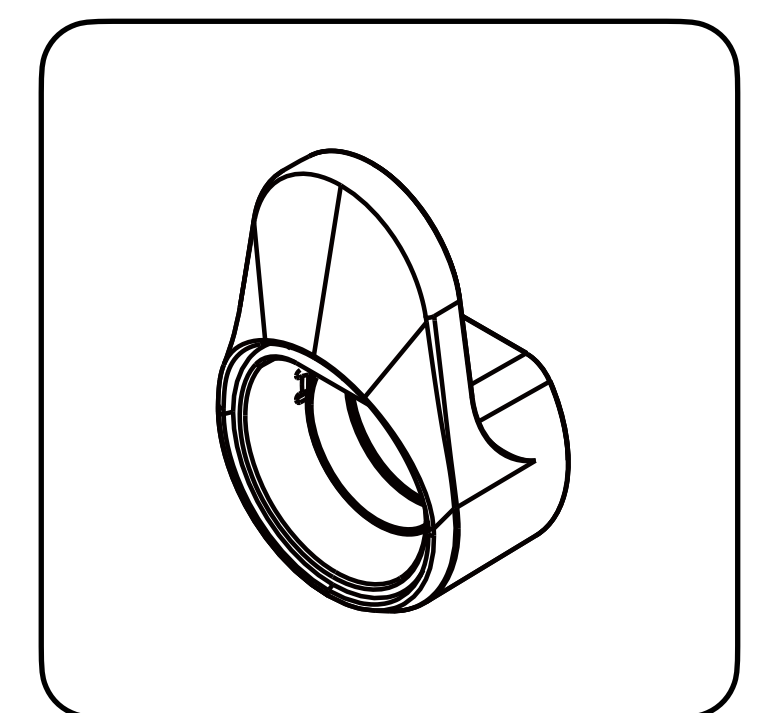
M4\*32 screw



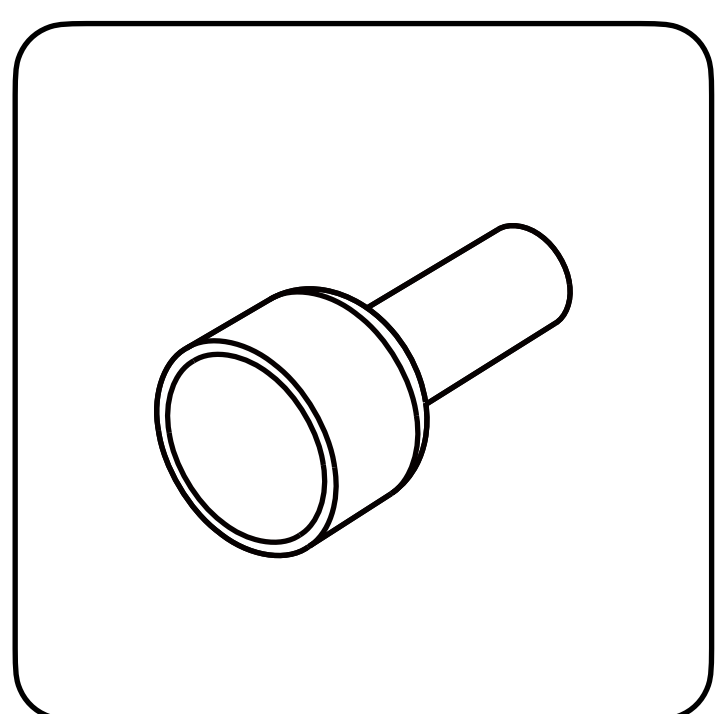
Wall plug



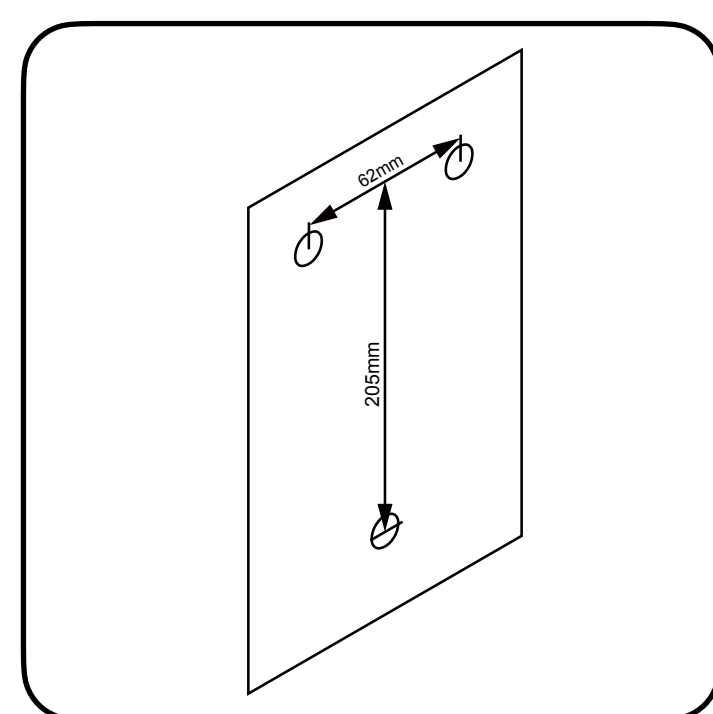
M1 card



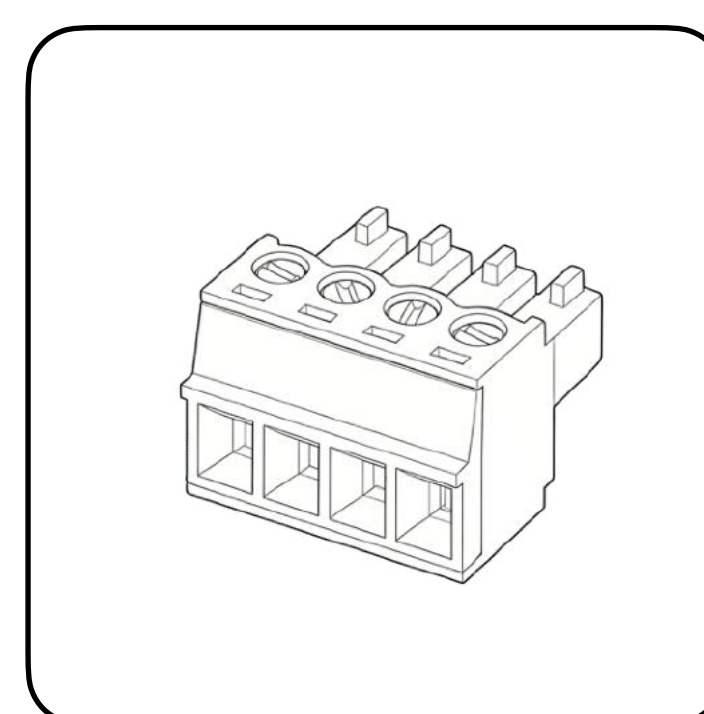
EV Socket



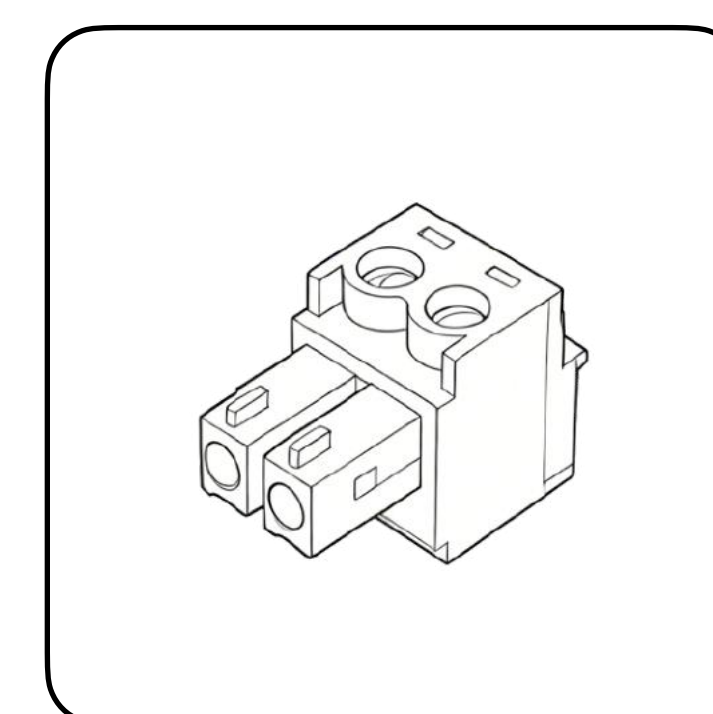
Cord End Terminal



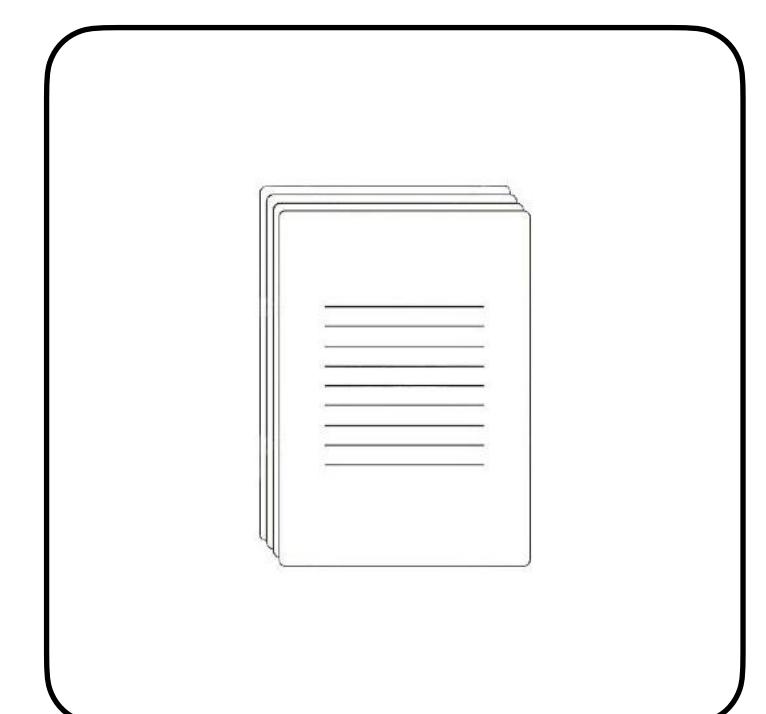
Mounting Position Diagram



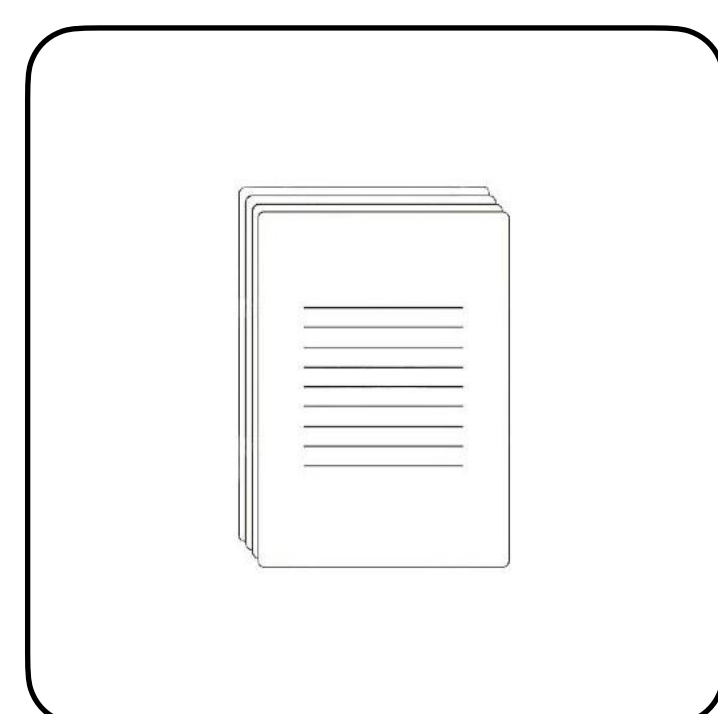
Plug-in terminal block



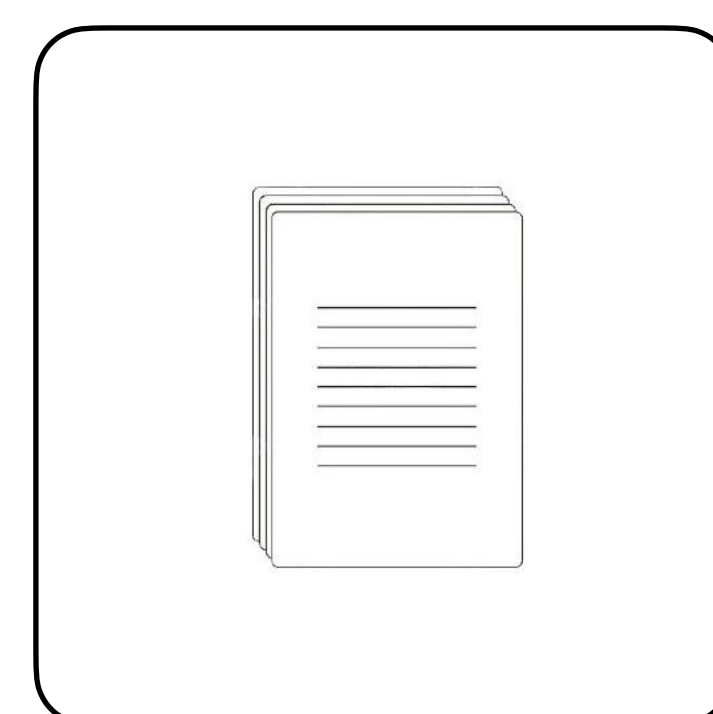
TERMINAL Plug and pull



Password Label



Installation Guide



Delivery Inspection Report



5.1.4 Required tools

| Tools               | Specification    |
|---------------------|------------------|
| Tape measure        | 5 m              |
| Marking tool        | Pencil           |
| Level               | Standard         |
| Philips screwdriver | PH2              |
| Hammer              | Standard         |
| Drill               | Drill bit: Φ6 mm |
| Wire stripper       | 2.5 mm²          |
| Crimping tool       | 2.5 mm²          |
| Digital multimeter  | Standard         |
| Voltage tester      | Standard         |

NOTE:

- The following items are not supplied and are customer-provided.

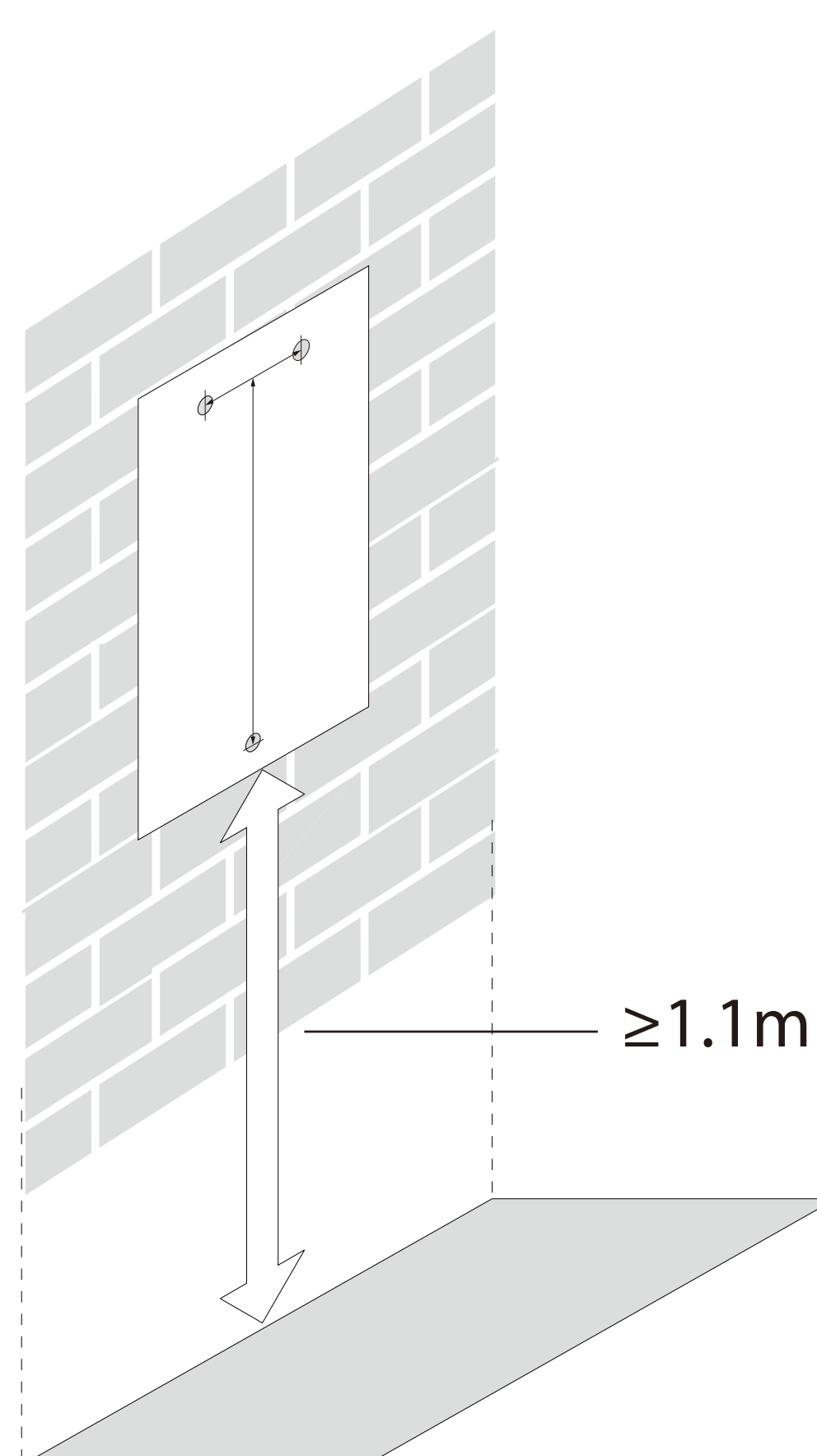
5.1.5 Confirm installation position

- Ensure that the parking position is within range of the charging cable.
- Ensure there is enough clearance for the charging cable to wrap around the wall charger box.
- Ensure that the charging handle can be comfortably inserted into the side of the wall charger.
- For outdoor installations, provide shelter from persistent rain.
- Install in a well ventilated space. Avoid installation and enclosed boxes close to high-power appliances and gas bottles.



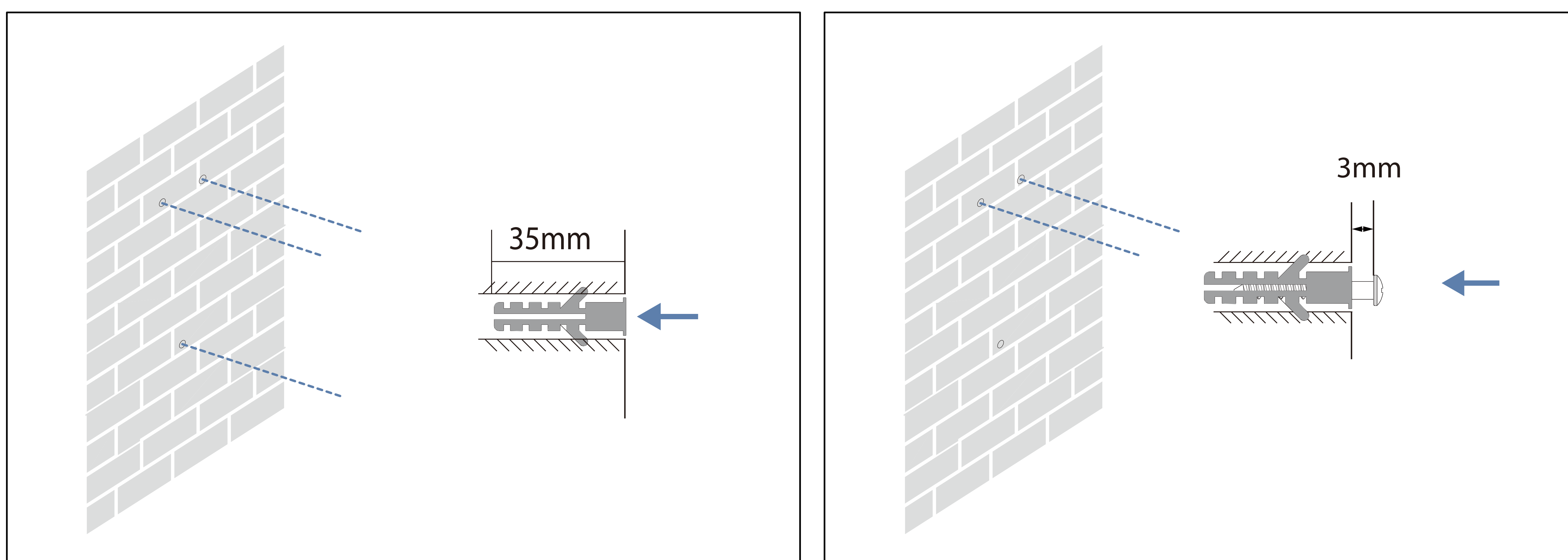
## 5.2 Drill holes

- Use the provided mounting template and align it on the wall at a height of at least 1.1 meters from the ground.
- Mark the positions of the 3 mounting holes.
- Use a 6mm diameter drill bit to drill 3 holes, each 35 mm deep.



## 5.3 Insert wall plugs

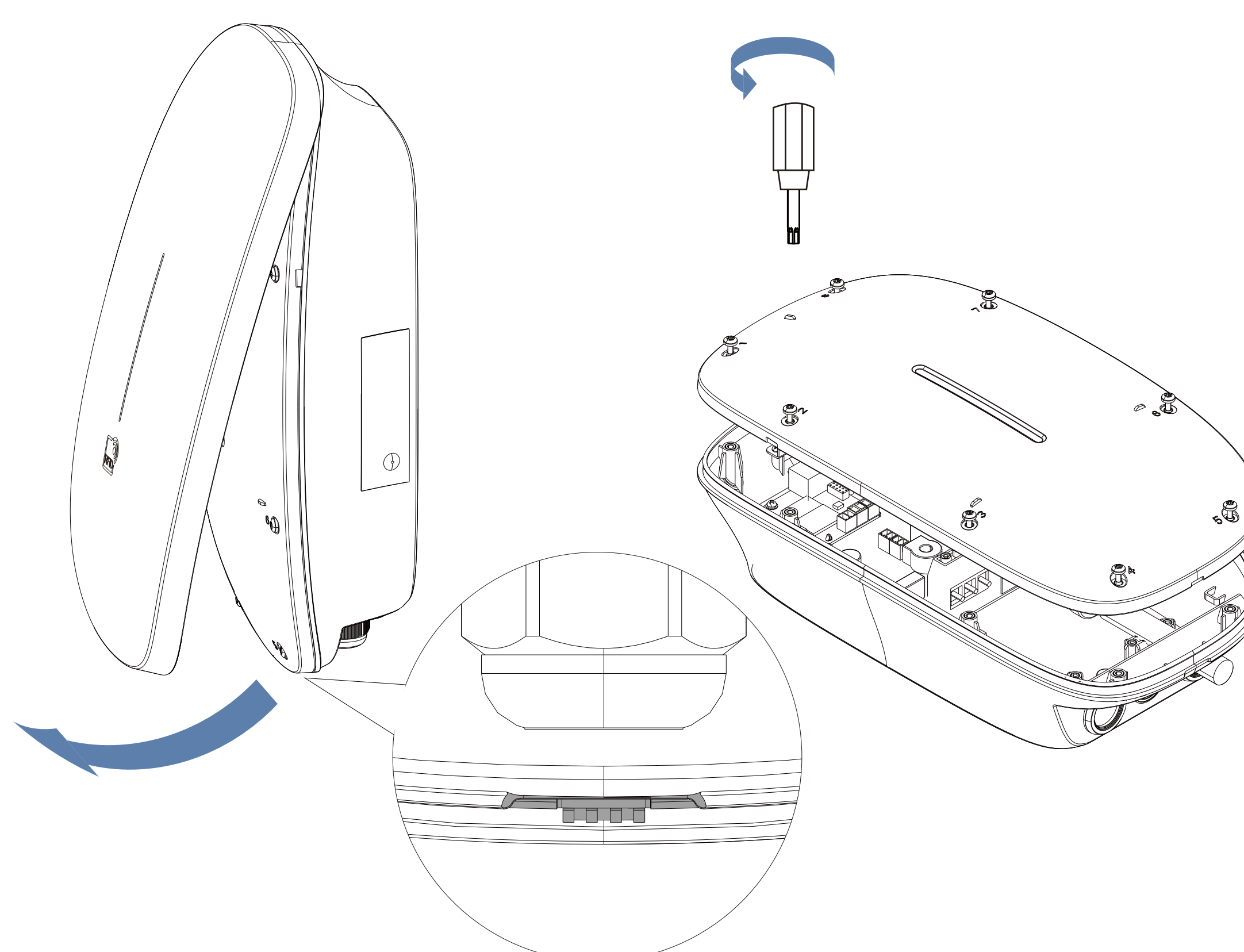
- Insert 3 wall plugs into the drilled holes.
- Insert 2 M4\*32 screws into the upper 2 wall plugs.





## 5.4 Detach the cover

- Insert your fingers into the notch at the bottom and pull the front cover outward to detach it.
- Remove the middle cover by loosening the 8 screws.



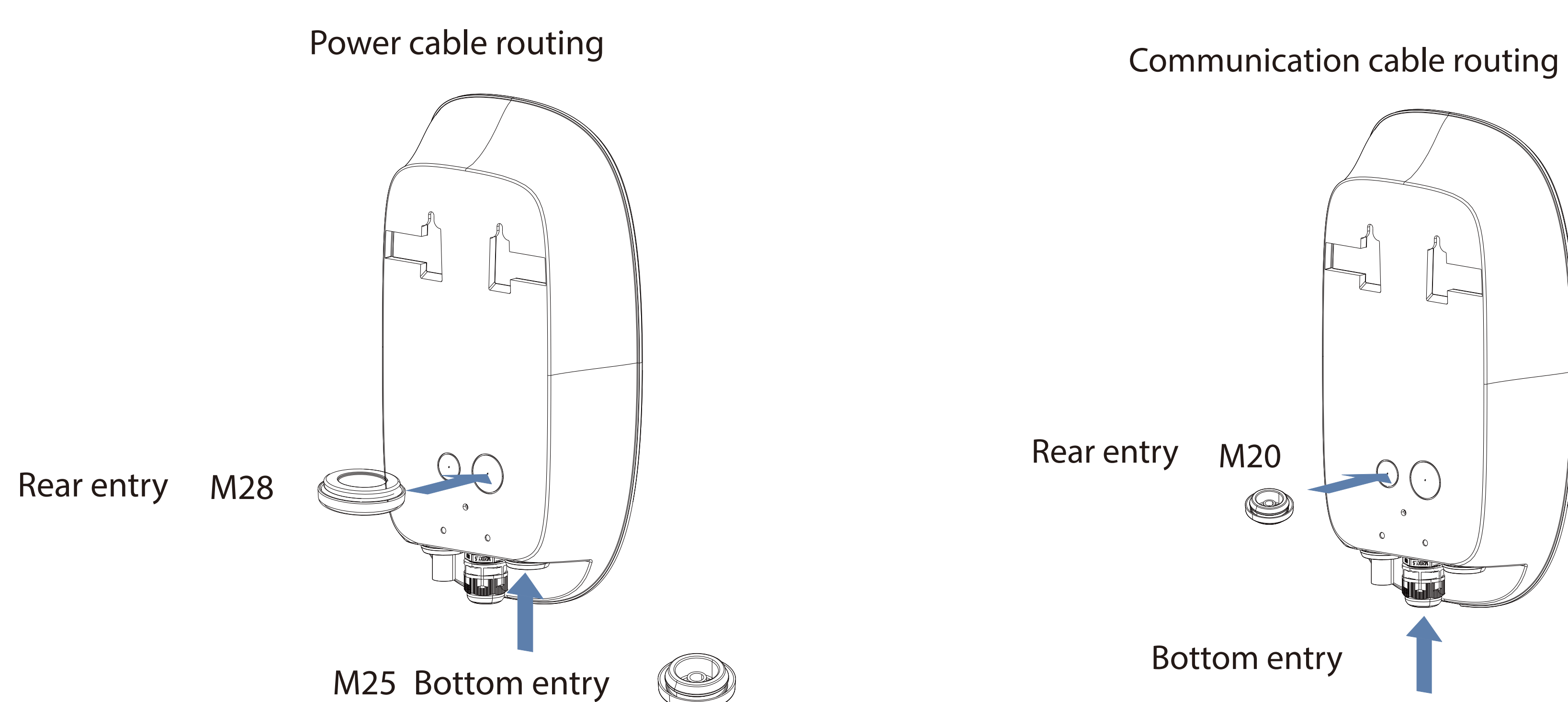
## 5.5 Confirm the cable entry

### Bottom Entry:

- Secure the AC input cable using the provided M25 cable grommet and the communication cable using the equipped cable gland.

### Rear Entry:

- Punch out the knock-out holes and secure the AC input cable with a M28 grommet and the communication cable with a M20 grommet.



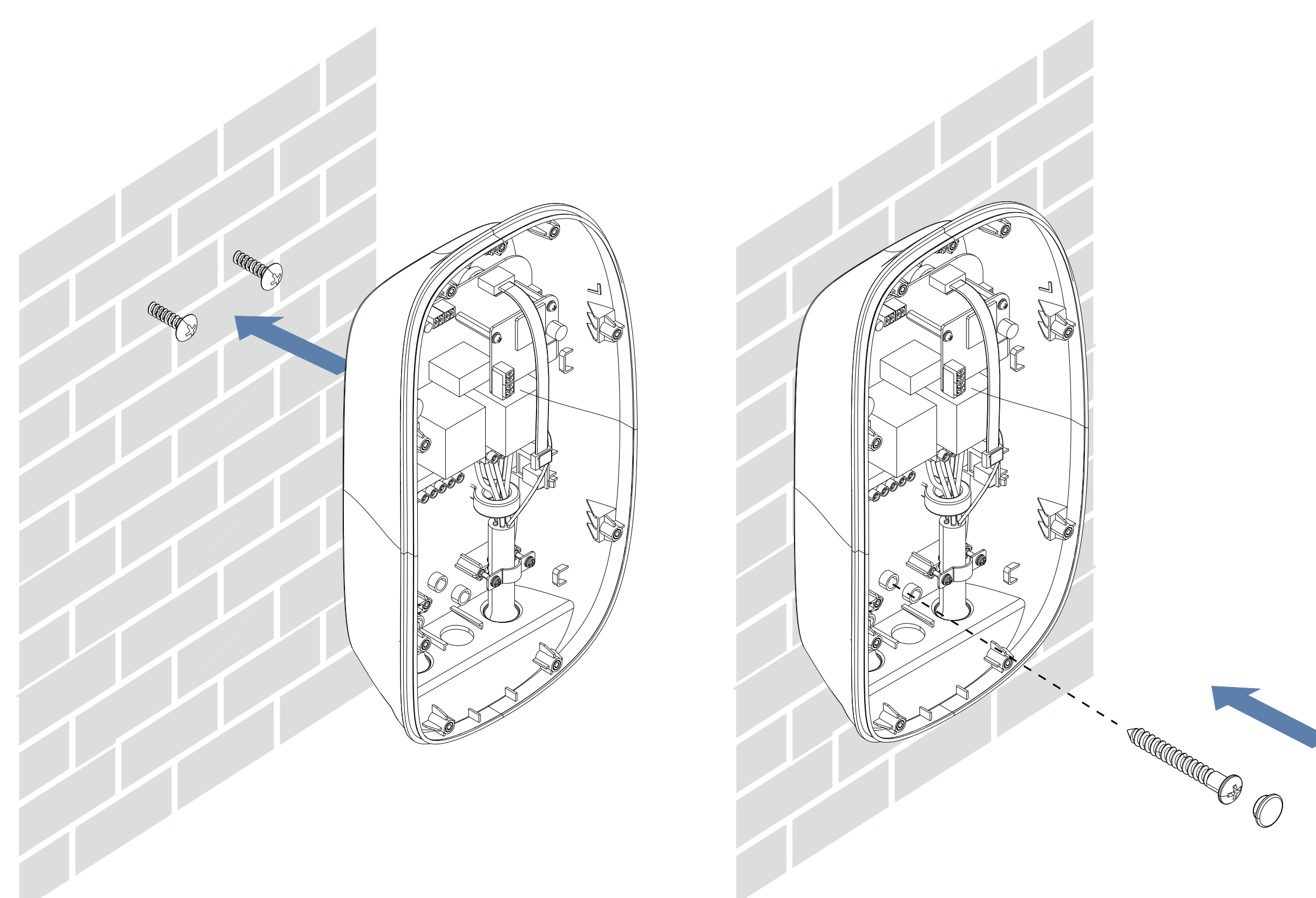
## NOTE:

- If rear entry is selected, install the M25 cable grommet to seal the unused bottom AC entry.



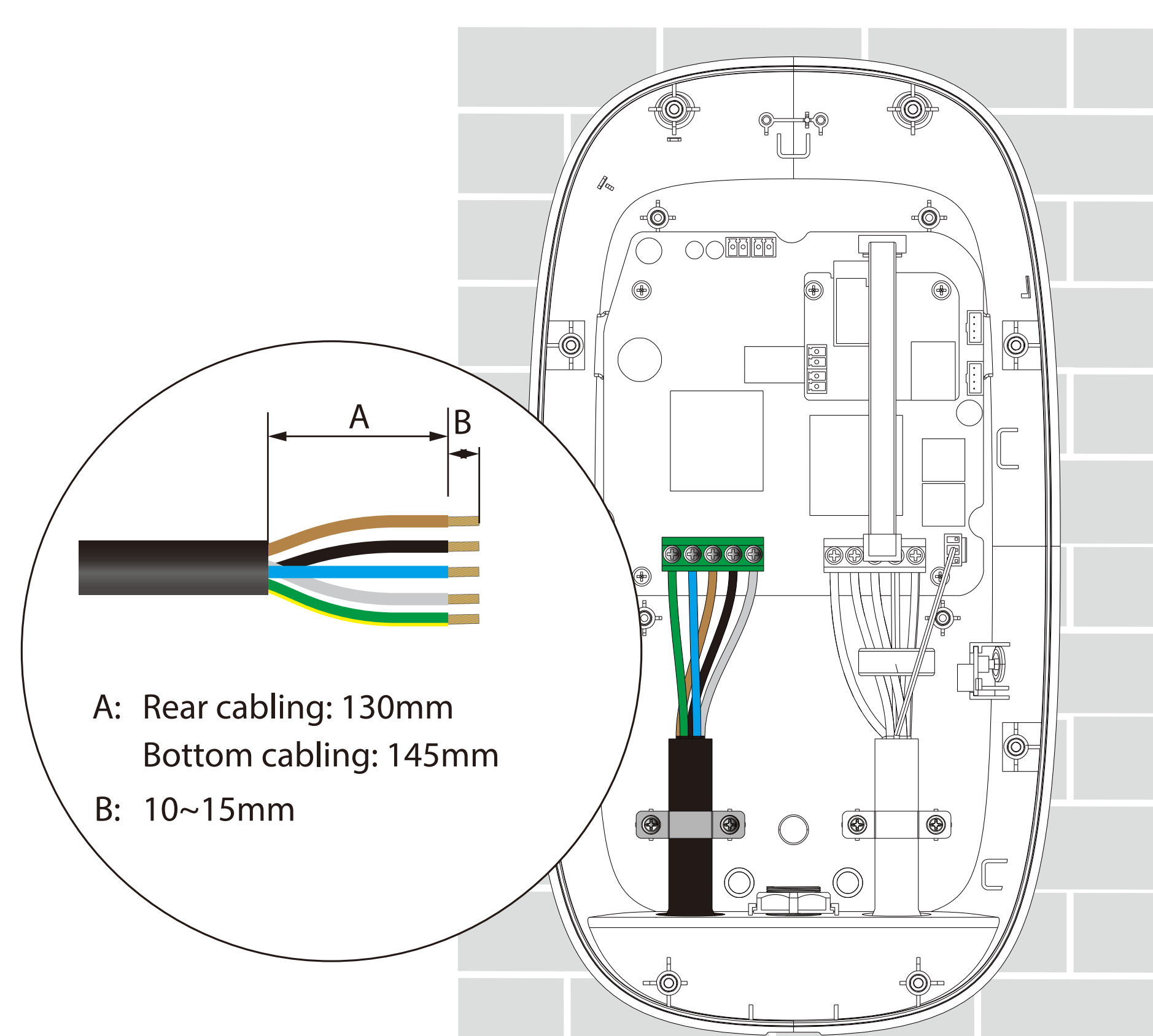
## 5.6 Secure the enclosure onto the wall

- Hang the charger onto the upper two screws.
- Secure the lower middle part of the enclosure using one M4\*32mm screw. M4: 0.6~1.2 N.m



## 5.7 Connect the AC input power cable

- Thread the AC input cable into the cable inlet.
- Strip wires to expose 10 mm to 15 mm of conductor and crimp them into bootlace ferrules.
- Insert the wires into the terminal block and tighten them, and then secure the cable with the cable clip using two M3\*12 mm screws.



### NOTE:

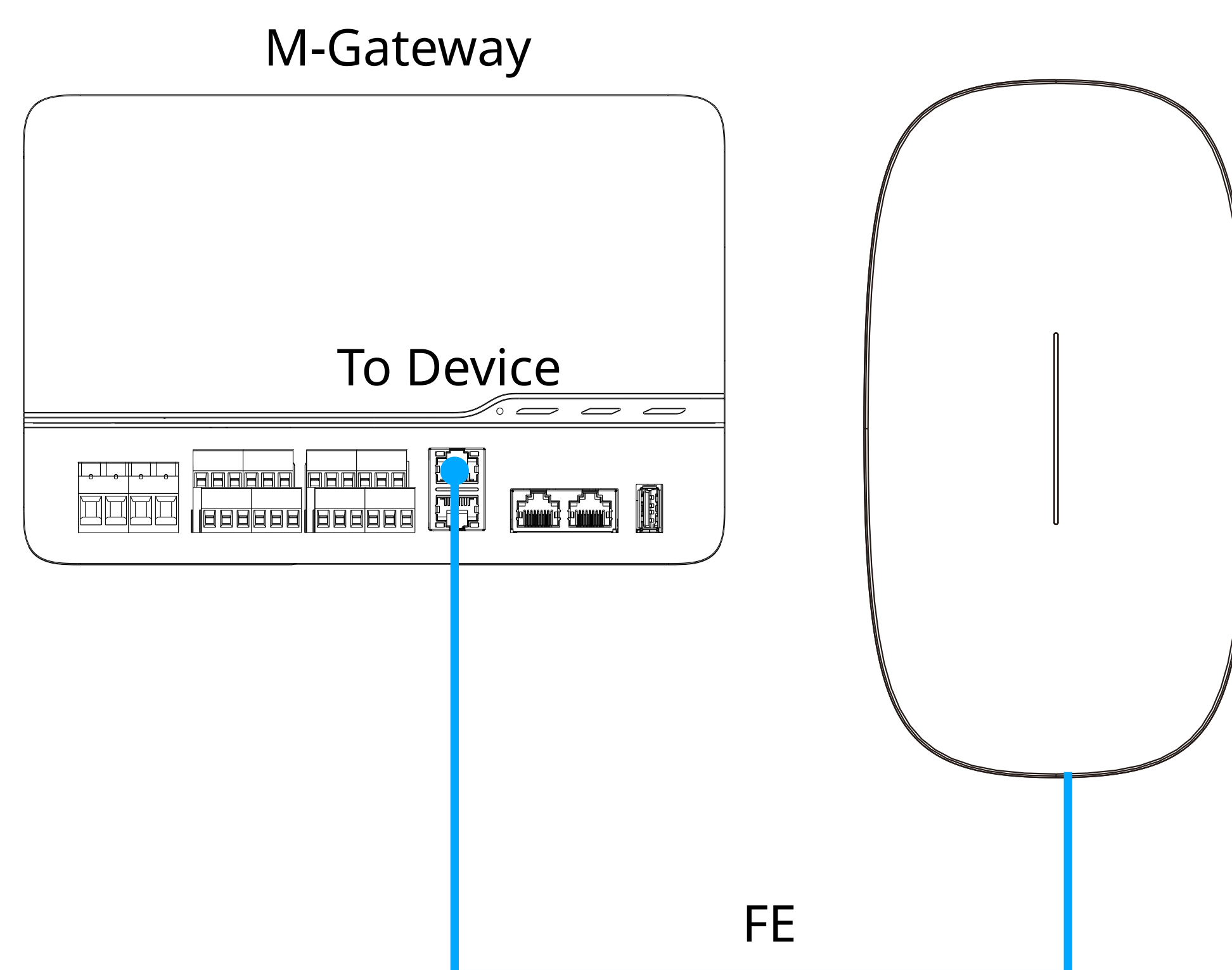
- Ensure that the power supply is cut off before connecting AC input wire.



## 5.8 Connection to Gateway

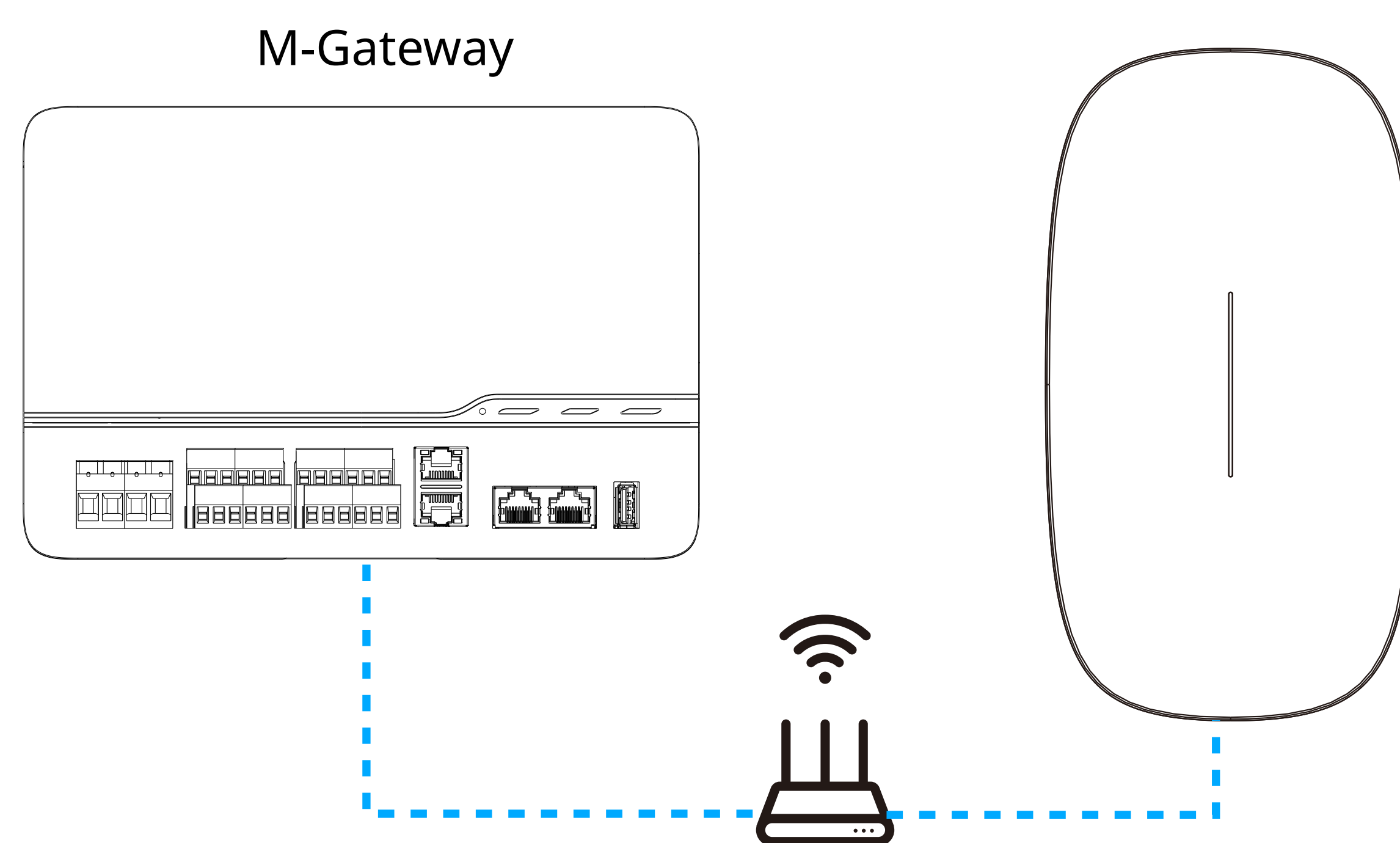
### 5.8.1 Direct FE Connection

- a. The gateway connects directly to the charger through the FE port.



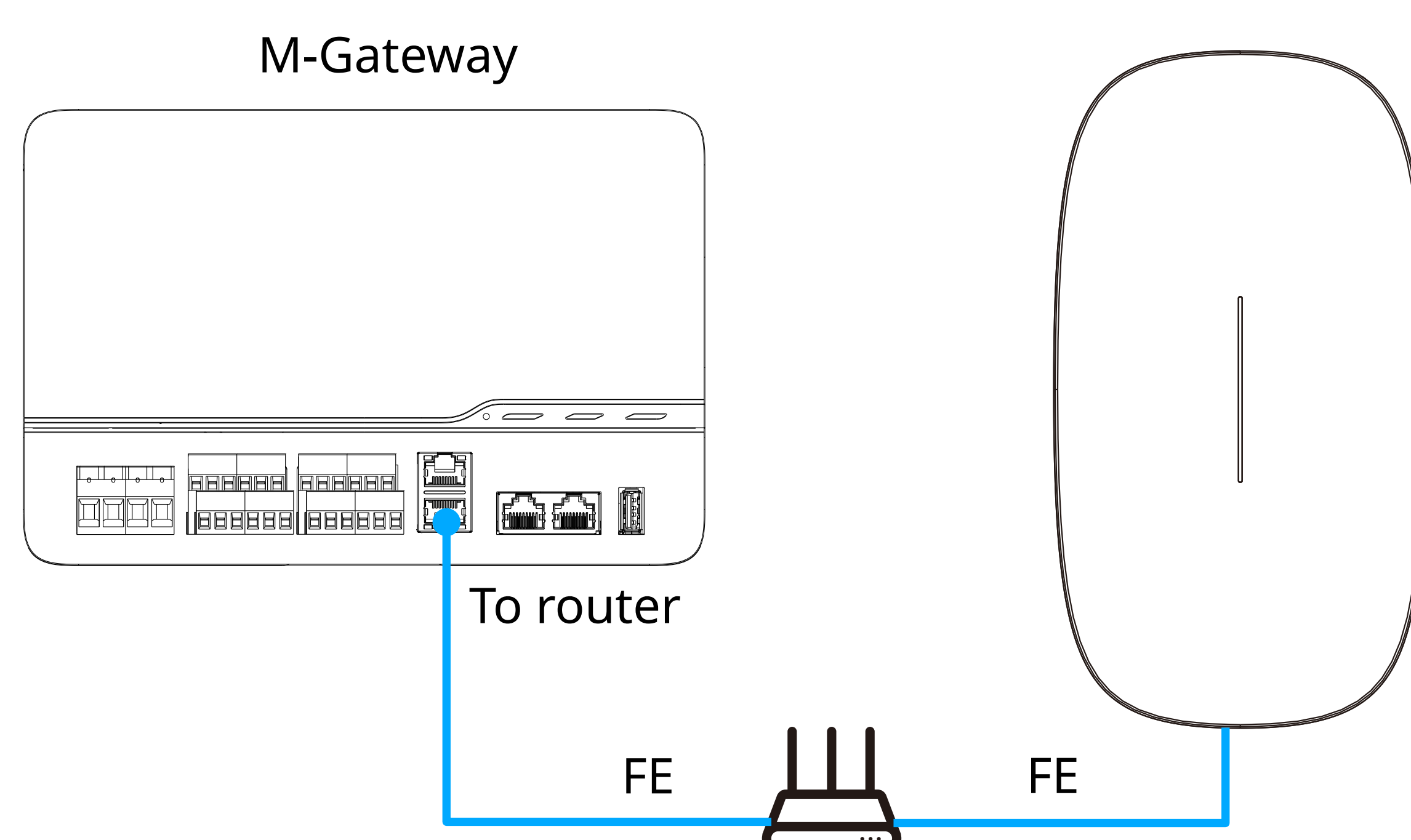
### 5.8.2 Wi-Fi Router Networking

- a. Both the gateway and the charger connect to the same router via Wi-Fi for automatic network access.



### 5.8.3 FE Router Networking

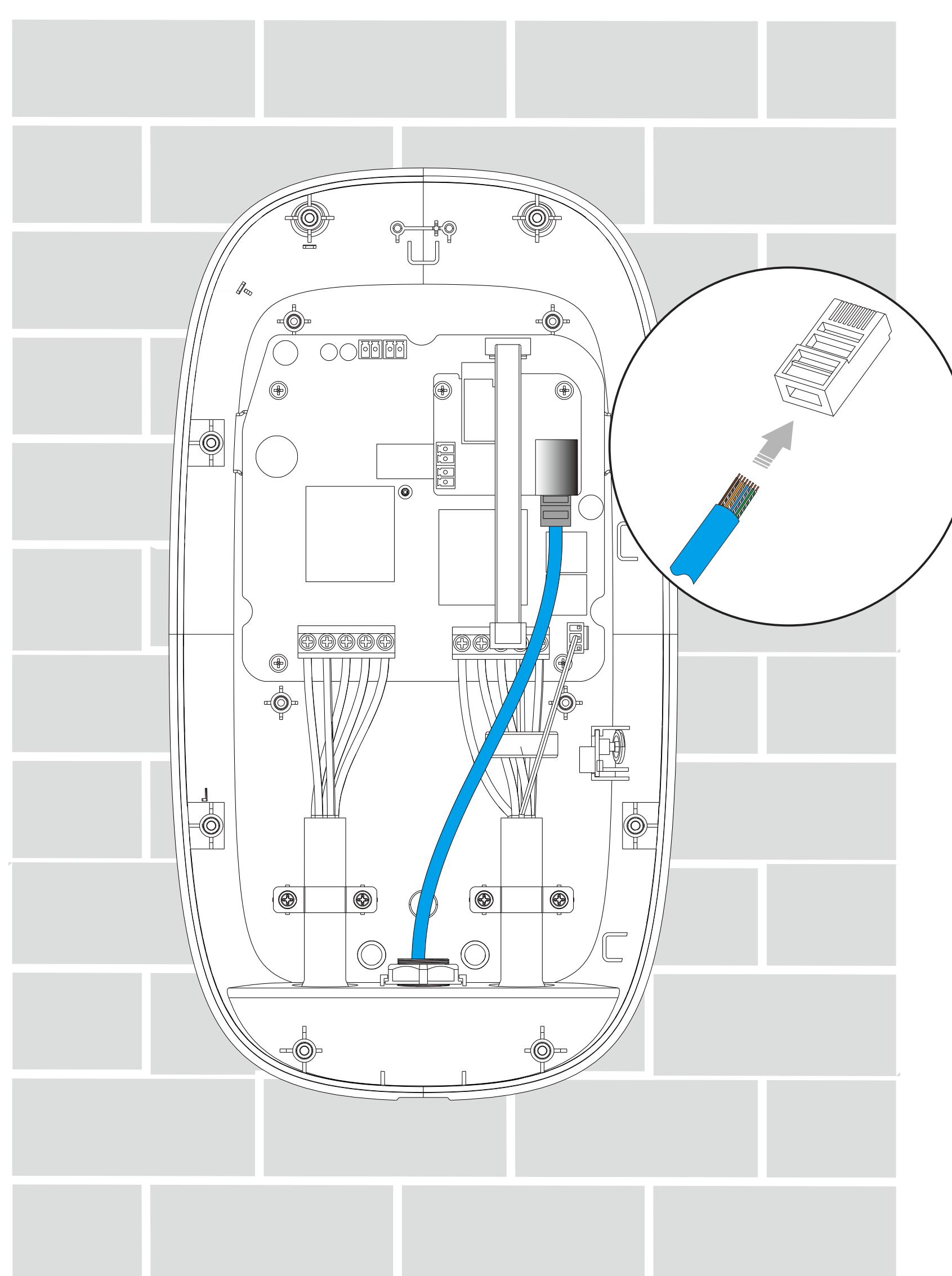
- a. Both the gateway and the charger connect to the same router through FE ports for automatic network access.





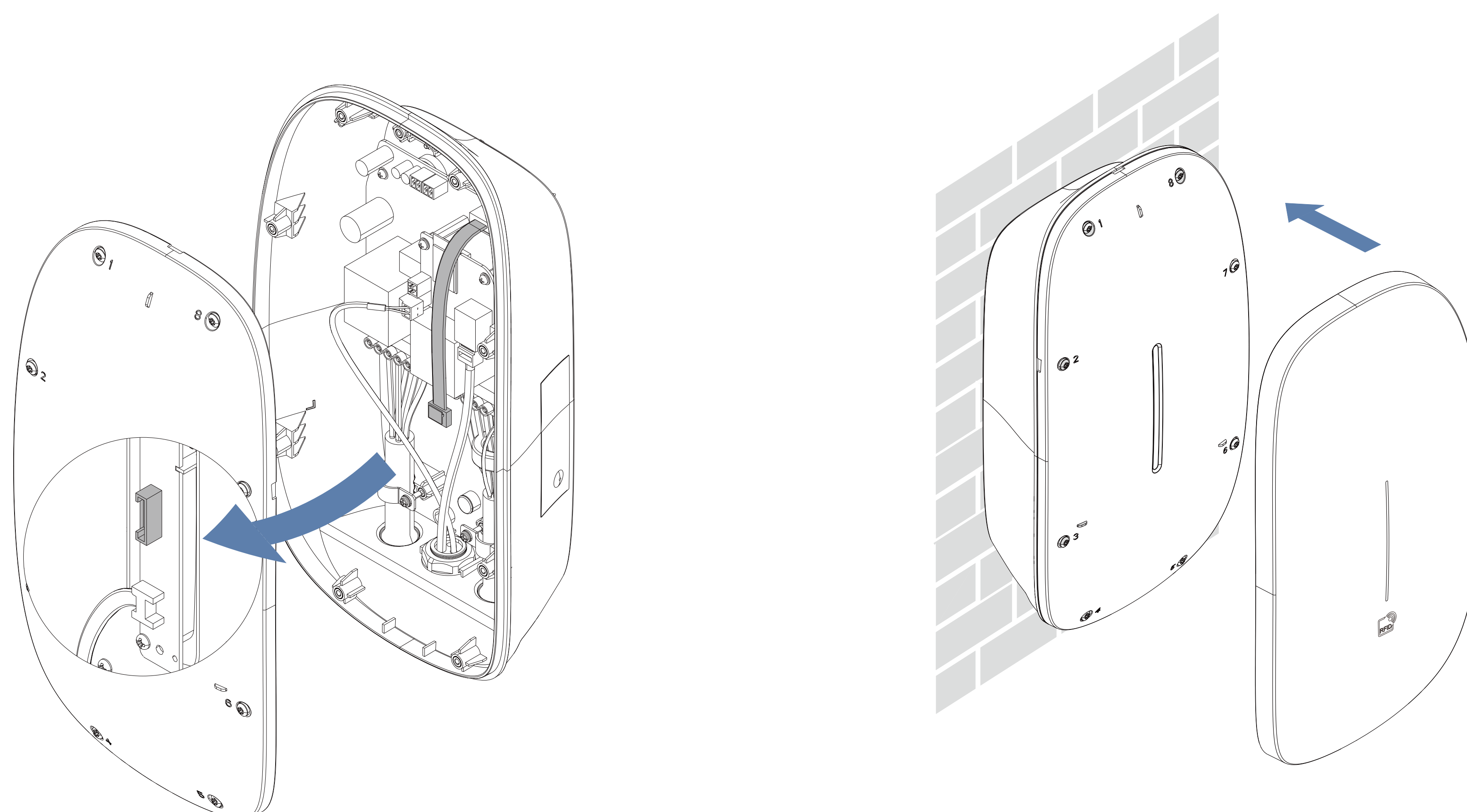
## 5.9 Connect the ethernet cable

- Feed the Ethernet cable through the communication cable inlet, run it to the top module, and connect it to the module's port.



## 5.10 Reattach the cover

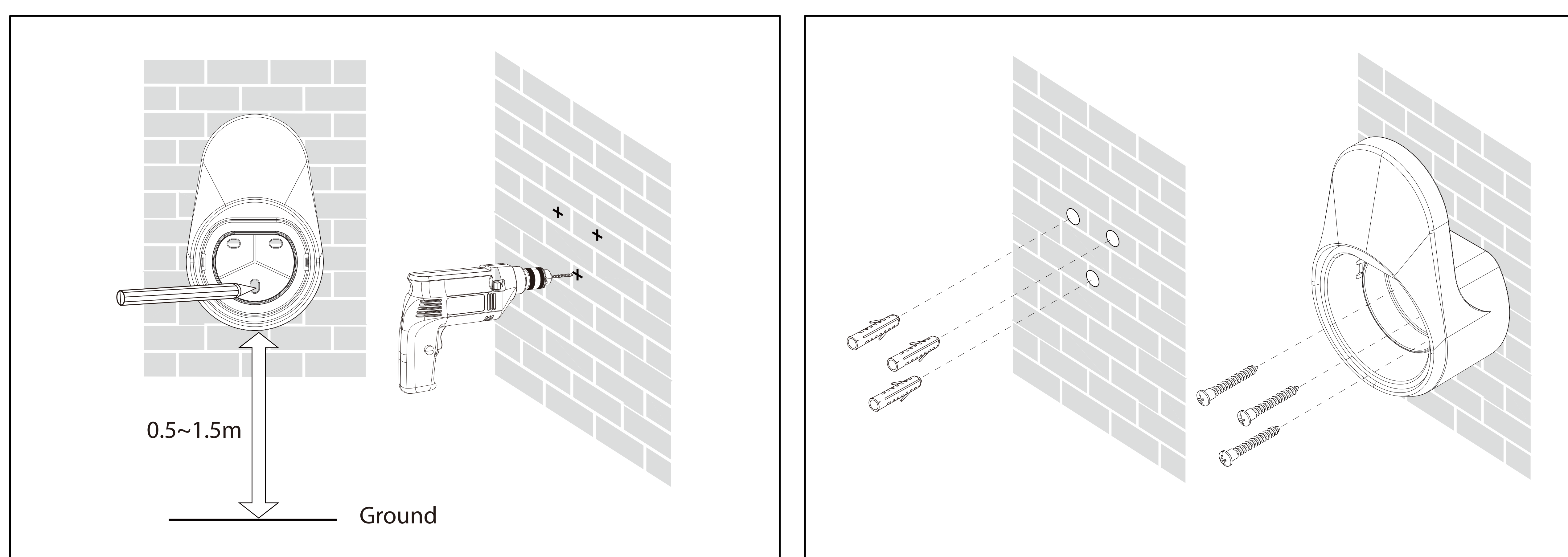
- Connect the two jumper wires.
- Ensure they are firmly inserted and secured before proceeding to close the cover.
- Tighten the eight screws in the middle cover.
- Install the decorative cover back. M4: 0.6~1.2 N.m.





## 5.11 Install the cable holder

- Choose a location 0.5~1.5 m above ground and close to the charger for convenience.
- Hold the cable holder against the wall.
- Use a pencil to mark the three fixing 0.5~1.5 m holes.
- Use a 6mm diameter drill bit to drill three holes, each 35 mm deep, at the marked locations.
- Insert three wall plugs into the drilled holes.
- Align holes in the cable holder with the ones on the wall.
- Secure it using three M4\*32 mm screws to complete the holder installation. M4: 0.6~1.2 N.m



## 5.12 Download the ATMOZEN App

For residential charging setups, we recommend commissioning via the mobile app.

- Install the ATMOZEN App on a smartphone.
- Create an account and Log in.
- Follow the instructions on the app to complete wizard settings and parameter settings.



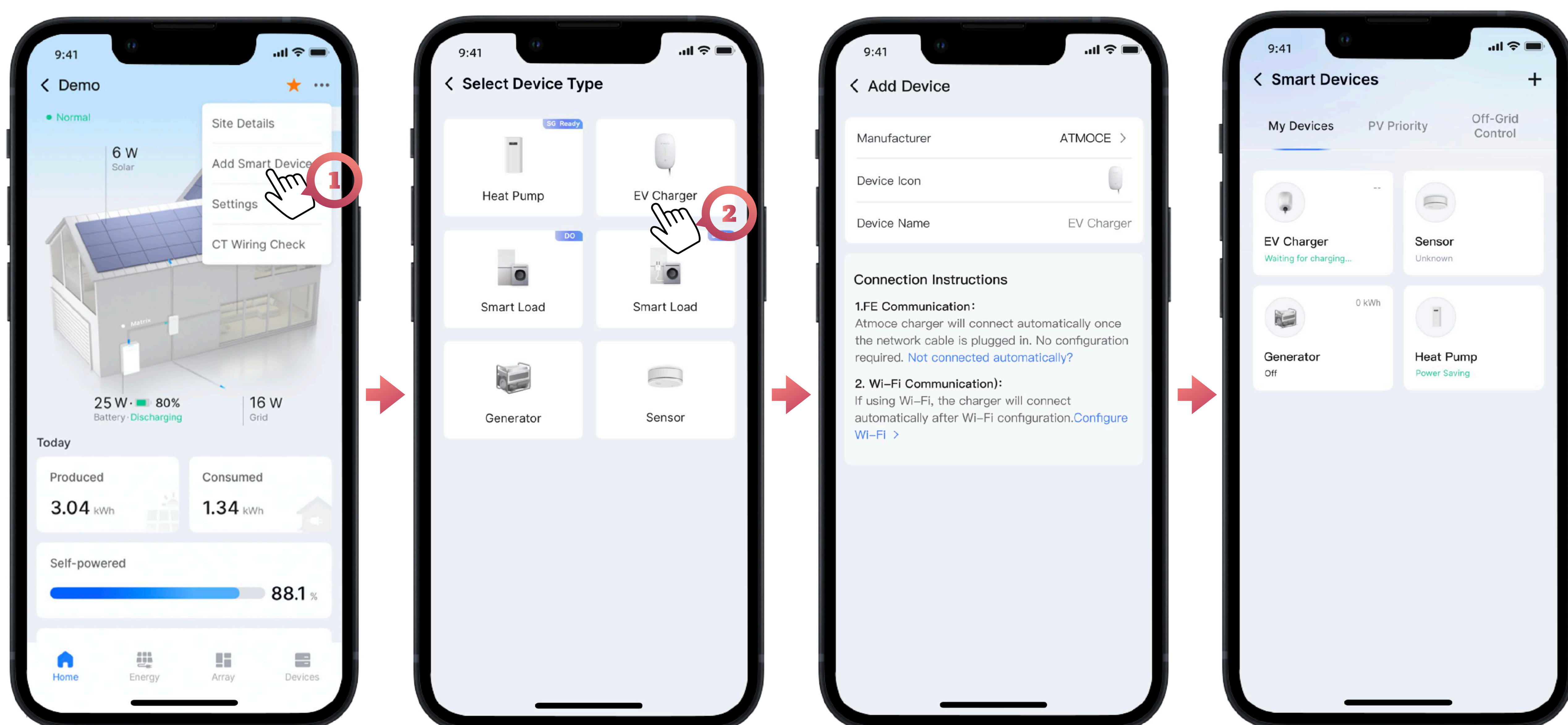
App download



## Deployment of EV-Charger

### 6.1 Adding EV Charger via ATMOZEN App

- Open the ATMOZEN App and tap on the three dots on the home screen of the system.  
Select, Add EV Charger.
- Select EV Charger.
- The EV Charger will connect automatically once the network cable is plugged in.
- Configuration finished.



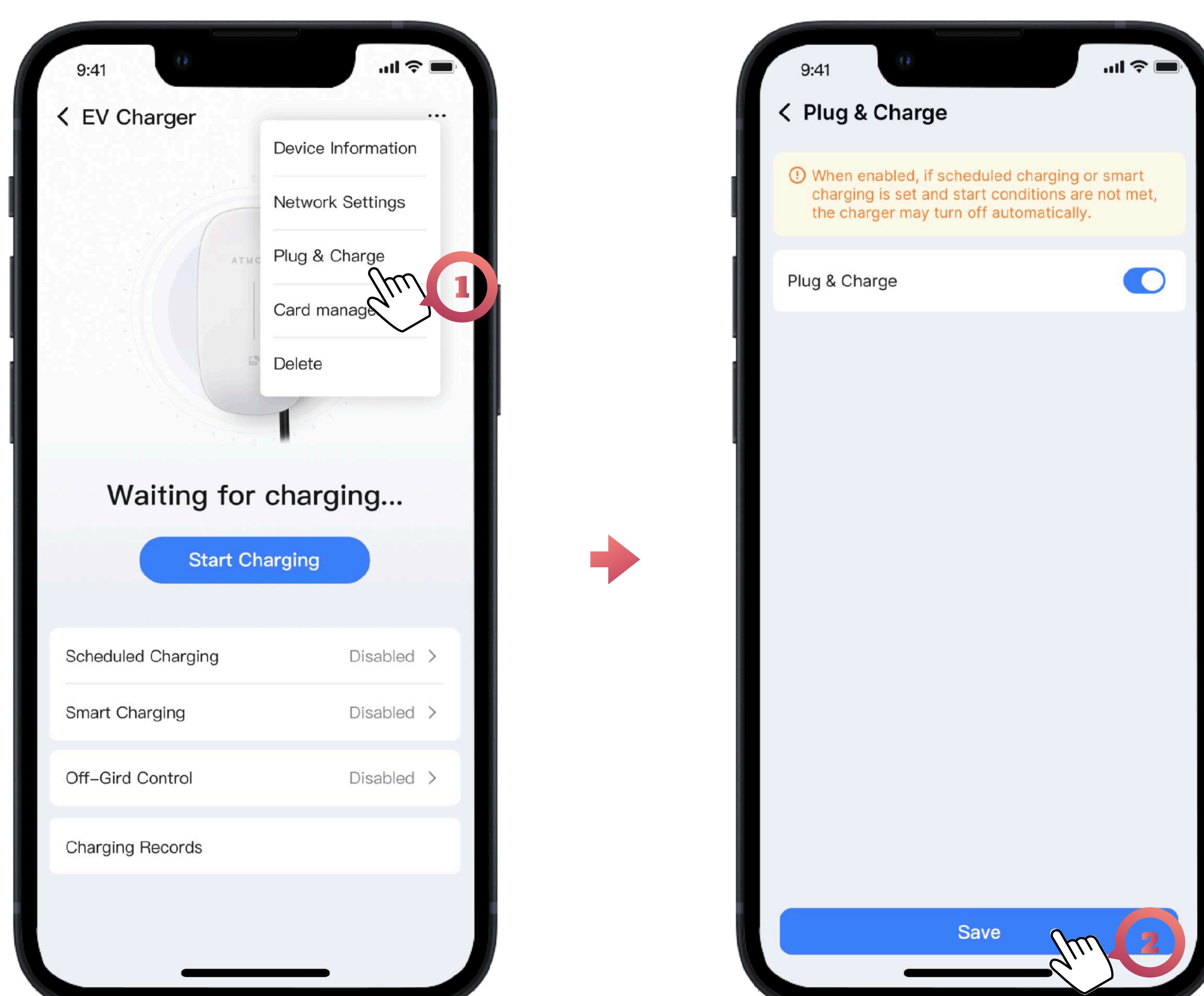


## 6.2 Device settings

- a. Manual Start/End Charging: Click on Start Charging/End Charging.

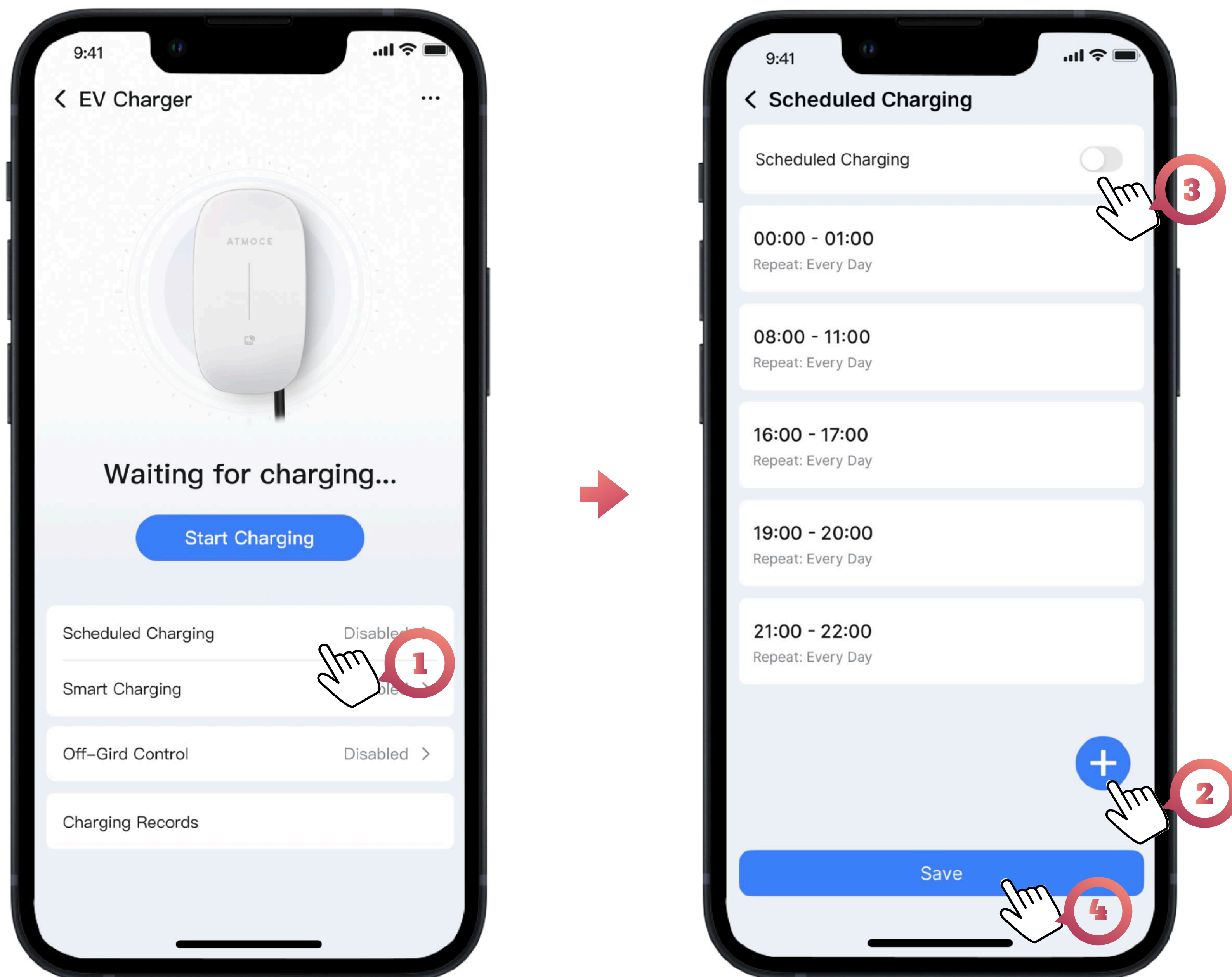


- b. Plug and Charge Setting: Tap on the three dots on the EV Charger screen. Click on Plug & Charge - Save.

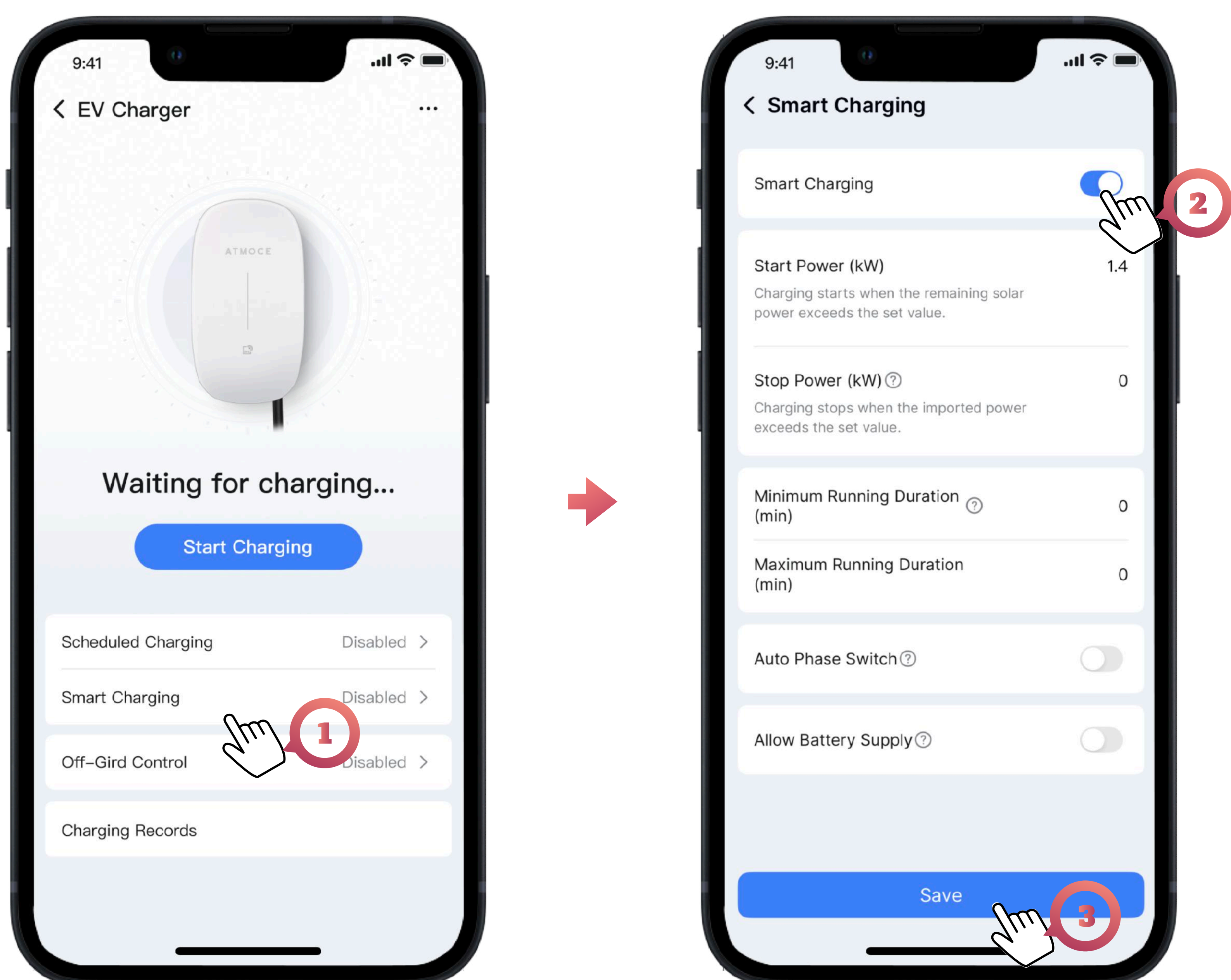




- c. Scheduled Charging Setting: Tap on Scheduled Charging - Click the plus icon to set the schedule - Click the Scheduled Charging button - Save.

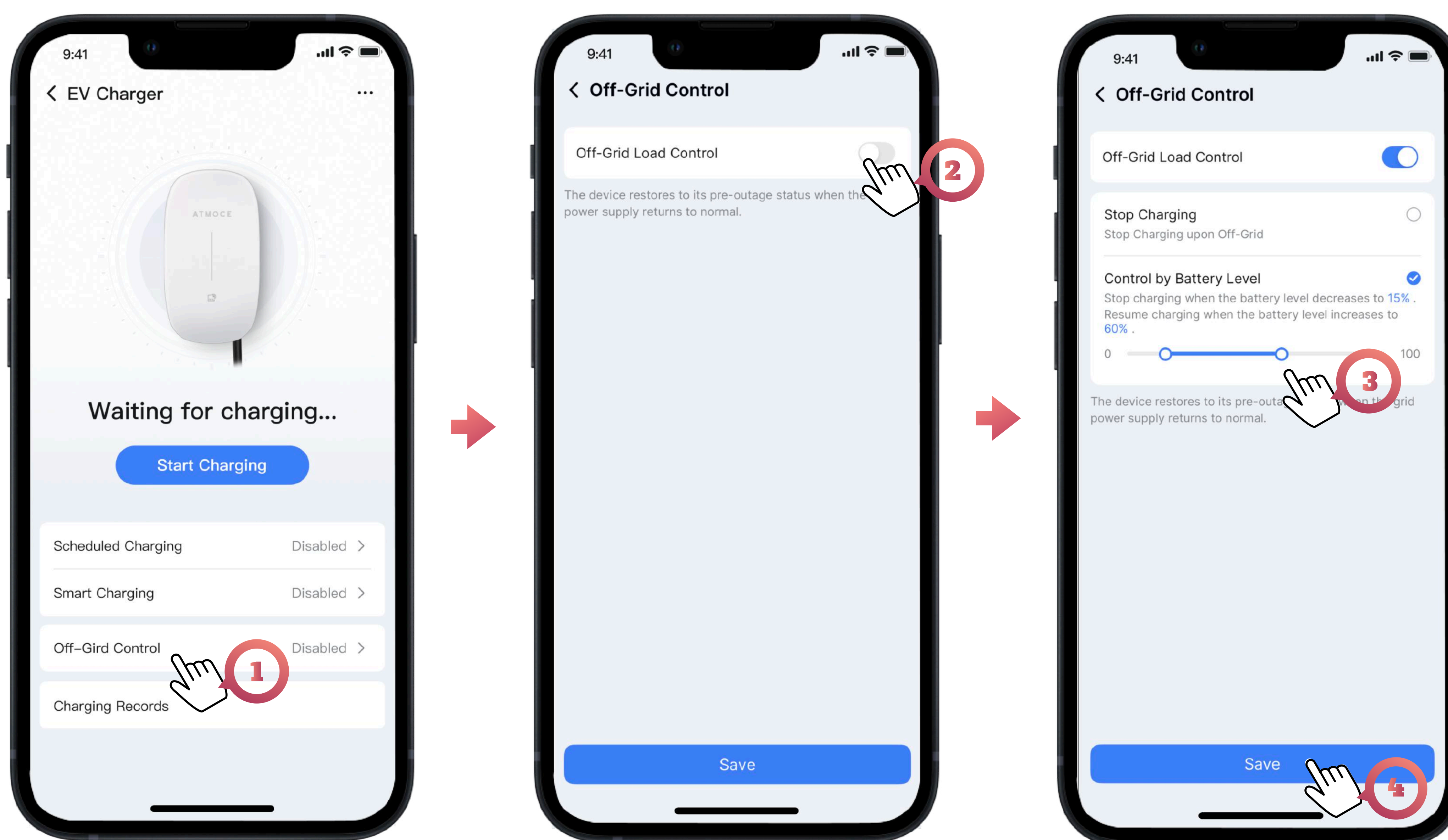


- d. Smart Charging Setting: Tap on Smart Charging, Set the parameters as necessary - Click the Smart Charging button - Save.

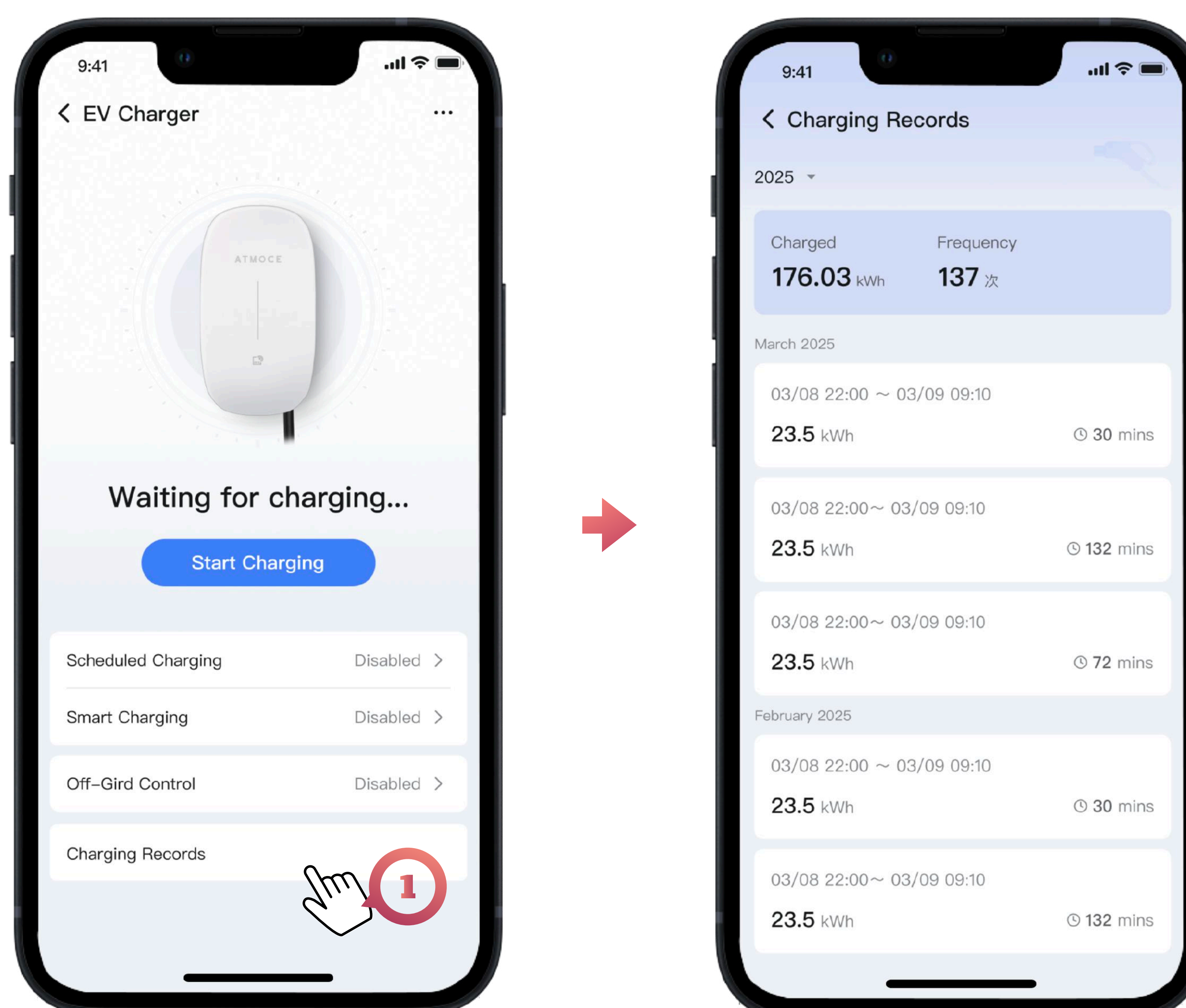




- e. Off-Grid Control Setting: Tap on Off-Grid Control - Click the Off - Grid Control button - Set the parameters as necessary - Save.



- f. View Charging Records: Tap on Charging Records.

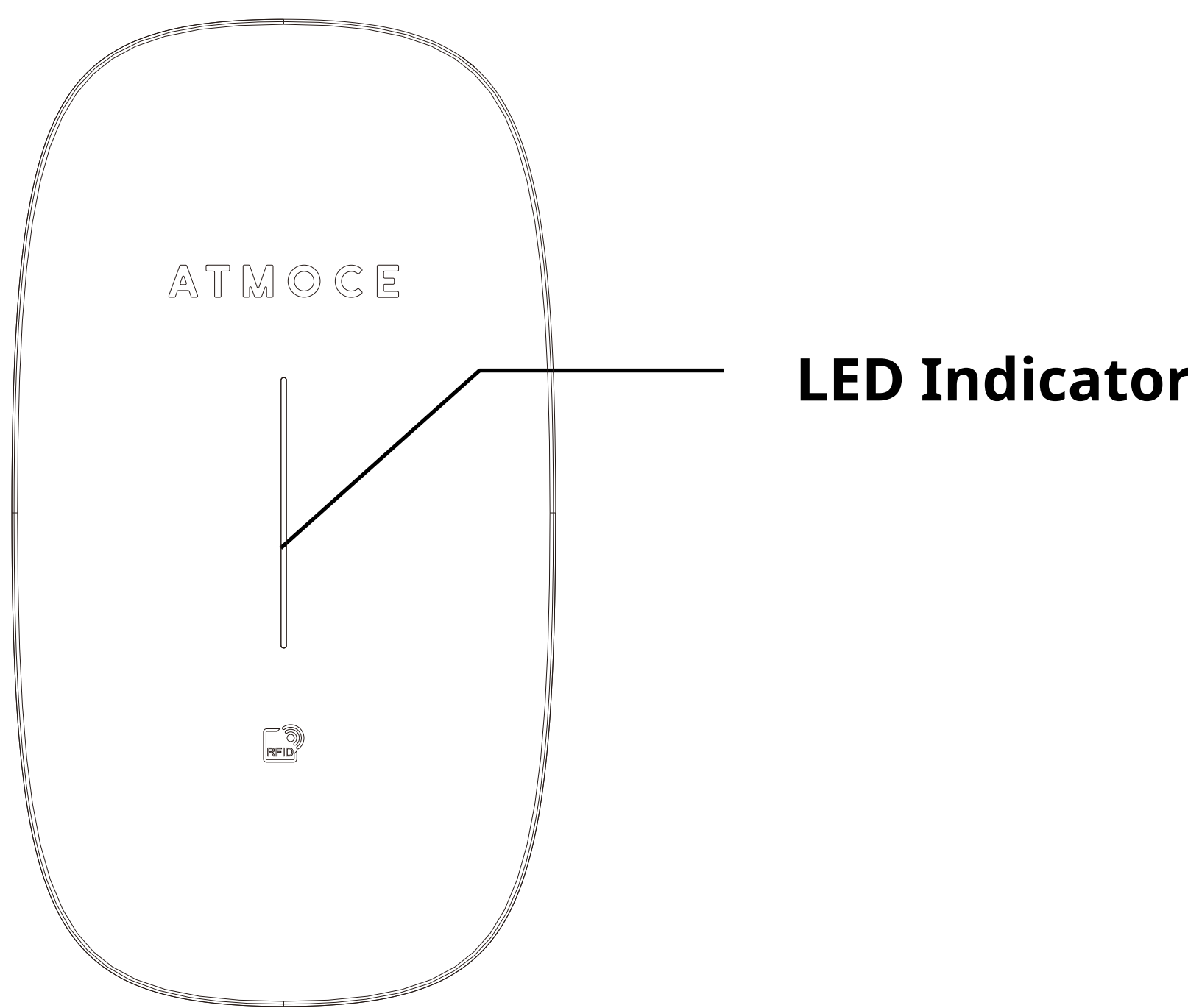




# Troubleshooting

## 7.1 LED Indicator Description

The M-EV Charger has one LED and the following table describes its status.



| Indicator color | Indicator status                                                                                                      | Charger status                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Green           | Cycle: flash slowly (on for 1s then off for 3s)                                                                       | Charger standby                                   |
|                 | Cycle: Rapid flashing twice (on for 200ms, then off for 1000ms), followed by a 3000ms off.                            | Charging initiated, awaiting vehicle response     |
|                 | Cycle: Rapid flashing for 5 times (on for 200ms, then off for 1000ms), followed by a 3000ms off.                      | Charging connector plugged in, ready for Charging |
|                 | Cycle: gradually brightens, then gradually dims (on for 1s, off for 1s)                                               | Charging in progress                              |
|                 | Steady green                                                                                                          | Charging complete                                 |
| Yellow          | Cycle: The green light is on for 1s, followed by the yellow light on for 1s, then off for 3s.                         | No Network/Not Connected to Server                |
|                 | Cycle: Flashing: on for 4s, then off for 1s.                                                                          | Bluetooth lock                                    |
|                 | Cycle: Rapid flashing: on for 2s, then off for 2s.                                                                    | Scheduled charging in Bluetooth mode              |
|                 | Cycle: Rapid flashing for 5 times (on for 200ms, then off for 1000ms), followed by a 3000ms off.                      | Insufficient Power Allocated, Pausing Charging    |
|                 | Cycle: Rapid flashing: The indicator light is on for 100ms, then off for 100ms, with a maximum of 5 repetitions.      | Card Identified Successfully                      |
|                 | Rapid flashing: on for 2s, then off for 2s                                                                            | Charger Reserved (Occupied)                       |
|                 | Steady yellow                                                                                                         | Alarm                                             |
| White           | Cycle: Rapid flashing (on for 200ms, then off for 1000ms), this pattern repeats five times, followed by a 3000ms off. | Program is upgrading                              |
|                 | Cycle: Breathing light: Gradually brightens, then gradually dims (on for 1s, off for 1s)                              | Power-On Self-Test                                |



## 7.2 Troubleshooting

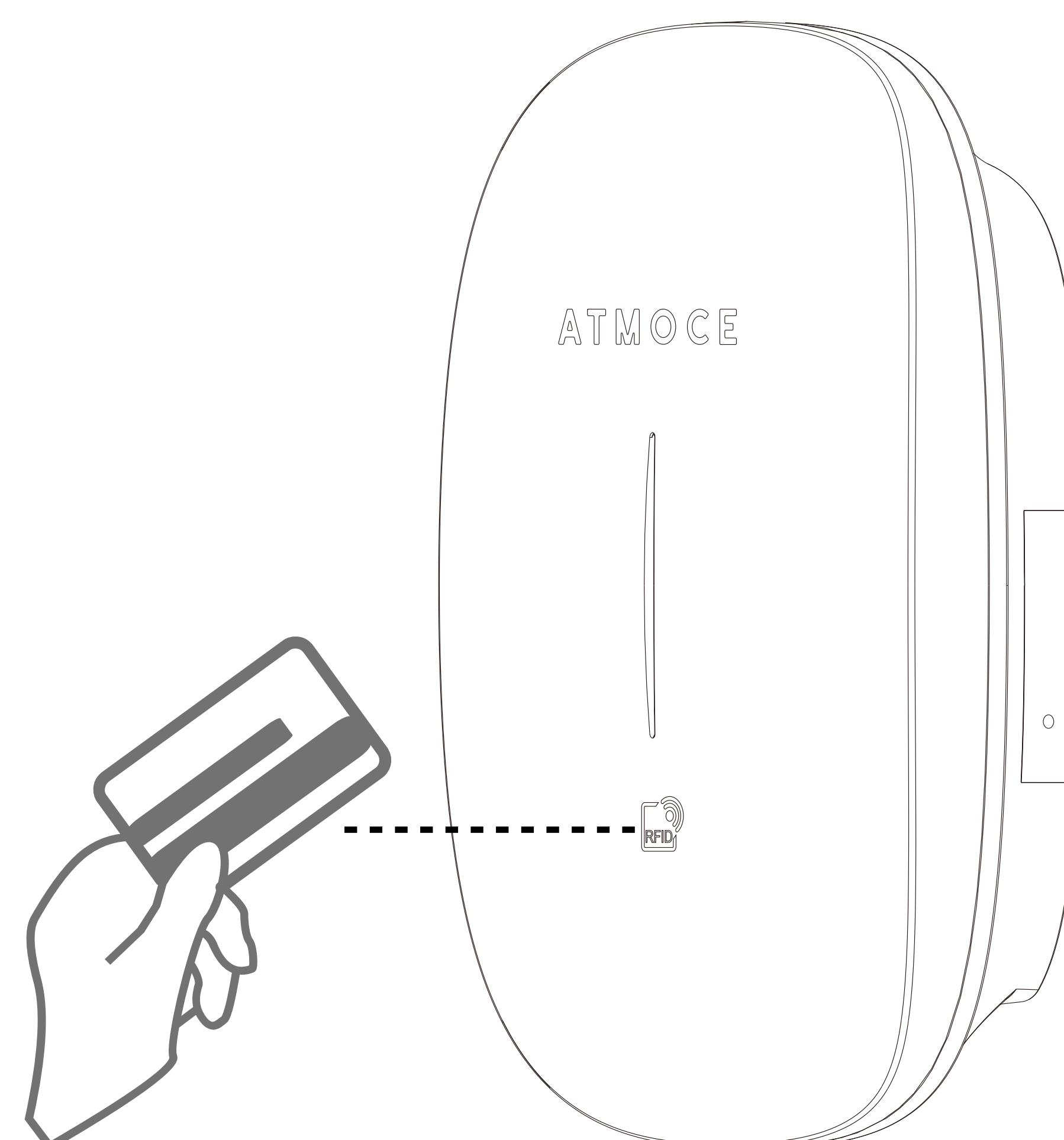
| Indicator color | Indicator status                                                                                        | Charger status                                                       | Solution                          |
|-----------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| Red             | Steady red                                                                                              | Relay adhesion                                                       | Please contact after-sales        |
|                 | Cycle: on for 500ms, then off for 500ms once, followed by 3s off.                                       | Leakage current fault                                                |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, twice; followed by 3s off.                                     | CP fault                                                             |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 3 times; followed by 3s off.                                   | Overcurrent fault                                                    |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 4 times; followed by 3s off.                                   | Reverse polarity fault                                               |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 5 times; followed by 3s off.                                   | Leakage current loop anomaly (self-check)                            |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 6 times; followed by 3s off.                                   | Input terminal overheat fault                                        |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 7 times; followed by 3s off.                                   | Relay Overheat                                                       |                                   |
|                 | Cycle: on for 500ms, then off for 500ms, 9 times; followed by 3s off.                                   | Output voltage fault                                                 |                                   |
| Red + Yellow    | Cycle: yellow on for 2s, followed by the red flashing once (on for 500ms, off for 500ms), then 3s off.  | Over/under voltage                                                   | Please try again 10 minutes later |
|                 | Cycle: yellow on for 2s, followed by the red flashing twice (on for 500ms, off for 500ms), then 3s off. | Over/under frequency                                                 |                                   |
|                 | Yellow on for 2s, followed by the red flashing 4 times (on for 500ms, off for 500ms), then 3s off.      | Smart meter communication failure                                    | Please contact after-sales        |
|                 | Yellow on for 2s, followed by the red flashing 5 times (on for 500ms, off for 500ms), then 3s off.      | Current transformer (CT) anomaly                                     |                                   |
|                 | Yellow on for 2s, followed by the red flashing 6 times (on for 500ms, off for 500ms), then 3s off.      | Charging connector lock anomaly                                      | Please contact after-sales        |
| White           | Yellow on for 2s, followed by the red flashing 7 times (on for 500ms, off for 500ms), then 3s off.      | Charging connector current anomaly                                   |                                   |
|                 | Cycle: flash twice (on for 200ms and off for 1000ms for) then off for 5000ms                            | BOOT security verification failed or security chip is malfunctioning |                                   |
|                 | Steady white                                                                                            | The charger in a disabled state                                      |                                   |



## Charger usage

### 8.1 Charging by tapping card

- Plug the charging connector in, and the indicator flashes green quickly for five times.
- Tap card, and the indicator flashes yellow quickly for up to five times.
- During charging, the indicator gradually brightens, then gradually dims in green.
- Tap card and unplug to the connector.



### 8.2 Plug to Charge

Factory default: APP-control via online mode.

Enable Plug-to-Charge mode in the ATMOZEN App, please refer to the section in the App User Guide:

- Switch from "Online Mode" to "Plug to Charge Mode"

### 8.3 Control charging via App

#### 8.3.1 Residential scenario

Please refer to the the section in App User Guide:

- How to Start a Charging Session at Home



# Technical Data

## 9.1 M-EV Charger Data Sheet

| Model                      | Unit | MEV-7K-S                                                                                                                                                                                                                                  | MEV-11K-T       |
|----------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Electrical Specification   |      |                                                                                                                                                                                                                                           |                 |
| Grid Setup                 |      | 1P+N+PE                                                                                                                                                                                                                                   | 3P+N+PE         |
| Nominal Voltage            | V AC | 220 / 230 / 240                                                                                                                                                                                                                           | 380 / 400 / 415 |
| Operating Voltage Range    | V AC | 184 to 276                                                                                                                                                                                                                                | 320 to 480      |
| Nominal Current            | A    | 32                                                                                                                                                                                                                                        | 16              |
| Nominal Frequency          | Hz   | 50 / 60                                                                                                                                                                                                                                   |                 |
| Nominal Power              | kW   | 7                                                                                                                                                                                                                                         | 11              |
| Power Consumption          | W    | ≤ 5                                                                                                                                                                                                                                       | ≤ 5             |
| AC Surge Protection        |      | Type 2                                                                                                                                                                                                                                    |                 |
| Power Measurement Accuracy |      | 2%                                                                                                                                                                                                                                        |                 |
| Mechanical Specification   |      |                                                                                                                                                                                                                                           |                 |
| Colour                     |      | White                                                                                                                                                                                                                                     |                 |
| Dimension (H x W x D)      | mm   | 365 x 201 x 99.5                                                                                                                                                                                                                          |                 |
| Weight                     | kg   | 3.3                                                                                                                                                                                                                                       |                 |
| Operating Temperature      | °C   | -30 to + 50                                                                                                                                                                                                                               |                 |
| Operating Humidity         |      | 5% to 95%                                                                                                                                                                                                                                 |                 |
| Operating Altitude         | m    | ≤ 2000                                                                                                                                                                                                                                    |                 |
| RCD                        |      | 30 mA Type A + 6 mA DC                                                                                                                                                                                                                    |                 |
| Impact Protection          |      | IK10                                                                                                                                                                                                                                      |                 |
| Ingress Protection         |      | IP65                                                                                                                                                                                                                                      |                 |
| Charge Connector           |      | Type 2 Cable                                                                                                                                                                                                                              |                 |
| Enclosure Material         |      | PC                                                                                                                                                                                                                                        |                 |
| Installation               |      | Wall-mount / Pole-mount (Optional)                                                                                                                                                                                                        |                 |
| Electrical Protection      |      | Overcurrent protection   Residual current protection   Ground protection   Surge protection<br>Over voltage protection   Under voltage protection   Over frequency protection<br>Under frequency protection   Over temperature protection |                 |
| Interactive Interface      |      |                                                                                                                                                                                                                                           |                 |
| LED Indicator              |      | Green / Yellow / Red                                                                                                                                                                                                                      |                 |
| RFID Reader                |      | Mifare Classic ISO/IEC 14443-A   DESFire Duox ISO/IEC 14443-A (Optional)   FeliCa JIS X 6319-4 (Optional)                                                                                                                                 |                 |
| Start Mode                 |      | Plug to Charge   RFID card   App                                                                                                                                                                                                          |                 |
| Communication              |      |                                                                                                                                                                                                                                           |                 |
| Interface                  |      | Wi-Fi   Ethernet   Bluetooth                                                                                                                                                                                                              |                 |
| OCPP                       |      | OCPP 1.6 Json   OCPP 2.0.1 J (Upgradable)                                                                                                                                                                                                 |                 |
| Compliance                 |      |                                                                                                                                                                                                                                           |                 |
| Certification              |      | CE   CB   RoHS   Reach   EN 18031-1                                                                                                                                                                                                       |                 |
| EMC                        |      | EN IEC 62311:2020   EN 300 328 V2.2.2:2019   EN 300 330 V2.1.1:2017<br>EN 301 489-1 V2.2.3:2019   EN 301 489-3 V2.1.1:2019   EN 301 489-17 V3.2.4:2020<br>EN IEC 61000-6-1:2019   EN IEC 61000-6-3:2021   EN IEC 61851-21-2:2021          |                 |
| Safety                     |      | EN IEC 61851-1:2019                                                                                                                                                                                                                       |                 |



# ATMOCE

## Contact Details

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**Email:** [support@atmoce.com](mailto:support@atmoce.com)  
**Telephone:** +31 20 241 6207

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