

# **Installation and Operation Manual**

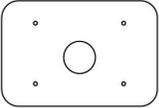
MaxiCharger DC Wall Mount

**For Mounting on a Pedestal:**

**Main Body and Mounting Kit**

<p><b>MaxiCharger</b></p> 	<p><b>M12 Lifting Eye Bolt</b> (4 PCS)</p> 	<p><b>Torx Screwdriver</b> (T25)</p> 	<p><b>Hex Key</b> (6 mm)</p> 
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**Pedestal Kit (optional)**

<p><b>Pedestal</b></p> 	<p><b>M12 x 80 Expansion Bolt</b> (4 PCS)</p> 	<p><b>M12 x 30 Bolt</b> (2 PCS)</p> 	<p><b>Drilling Template</b></p> 
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# 4 Installation

## General Installation Procedures:

1. Unpack the shipping crate.
2. Move the MaxiCharger to the installation site.
3. Mount the MaxiCharger.
4. Complete the power supply wiring.
5. Complete Installation.

The installation work shall be carried out after a suitable location is chosen.

## CAUTION

- Cut off the power supply before opening the MaxiCharger.
- Do not touch the inside components of the MaxiCharger while it is powered on.
- Ensure no voltage is applied while checking the MaxiCharger.
- Operate the MaxiCharger only when its door is closed and locked.

## 4.1 Unpacking

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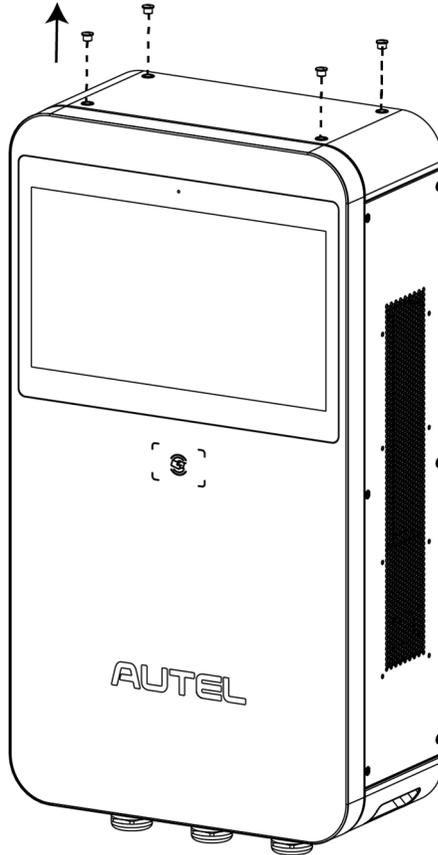
1. Remove the packaging using appropriate tools.
2. Inspect the MaxiCharger and the parts for installation for damage. If damage is evident or the parts are not consistent with the order, contact your local dealer.

## 4.2 Moving the MaxiCharger

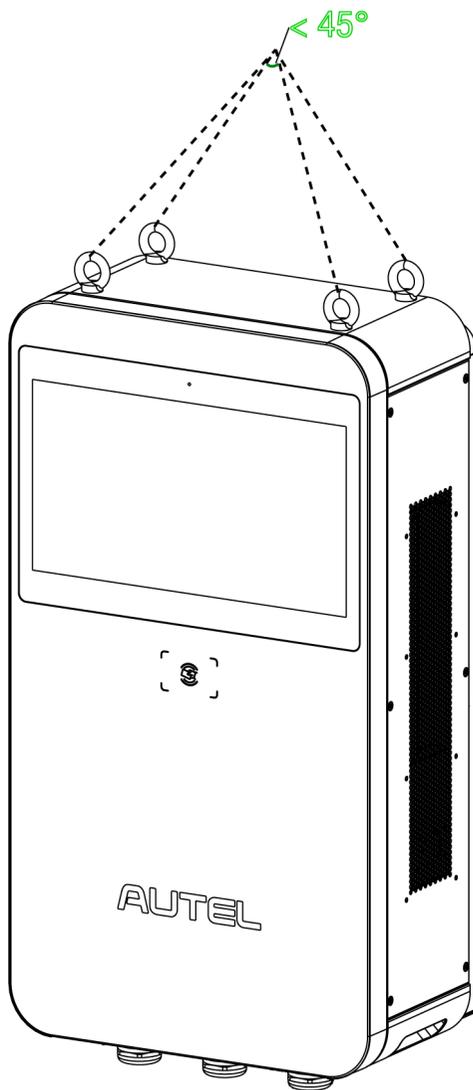
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It is recommended to move the MaxiCharger to the installation site using an appropriate hoisting equipment (crane, straps, and so on).

1. Remove the four screws on the top of the charger using a flathead screwdriver. Set them aside.



2. Install and tighten the four M12 lifting eye bolts into the four holes.
3. Connect the cables of the hoisting equipment to the eye bolts' lifting loops. Note that the angle should be less than  $45^\circ$ , as shown below.
4. Move the MaxiCharger to the installation site.



## 4.3.2 Mounting on a Pedestal

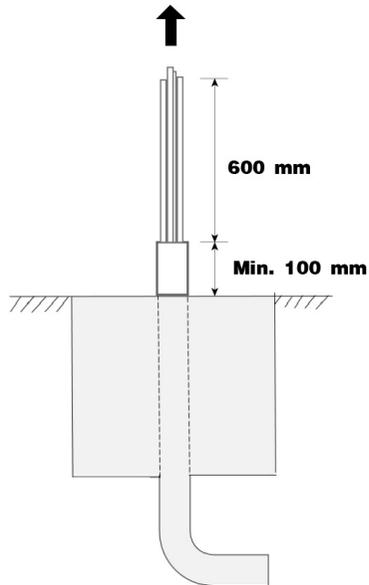
The pedestal can be mounted on an existing surface.

### ⚠ IMPORTANT

Always check local codes to ensure compliance. The guidelines described here are the minimum requirements. Ensure that the installation complied with all applicable codes.

#### **Step 1: Preparing a conduit**

1. Trench and excavate a cable tunnel to accommodate the conduit.
2. The conduit stub-up should be minimum 100 mm.
3. Pull the conduit and wire up through the exit opening, leaving 600 mm flexible length for the remaining installation activities.



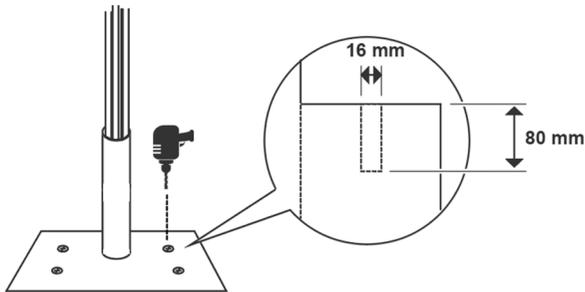
### Step 2: Drilling holes

1. Place the drilling template on the concrete surface, aligning its central hole with the exit opening.

#### NOTE

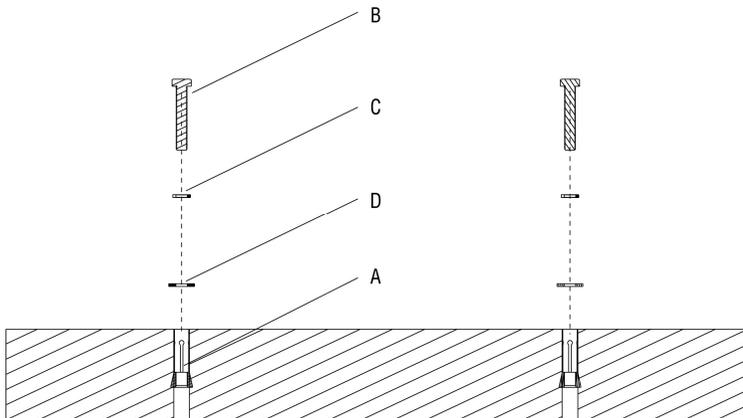
The side with a “Front” sign on the drilling template must be placed in the front.

2. Mark four holes on the concrete surface using a marker. Remove the drilling template.
3. Drill the four holes at the marked positions measuring 16 mm in diameter and 80 mm in depth.
4. Clean the dust ashes.

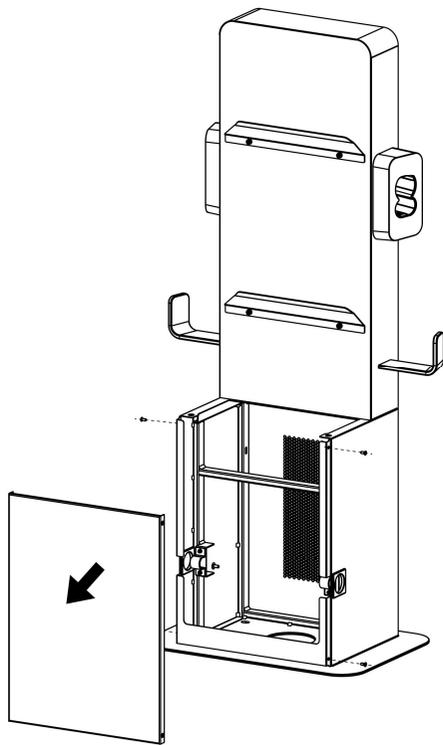


### Step 3: Mounting a pedestal

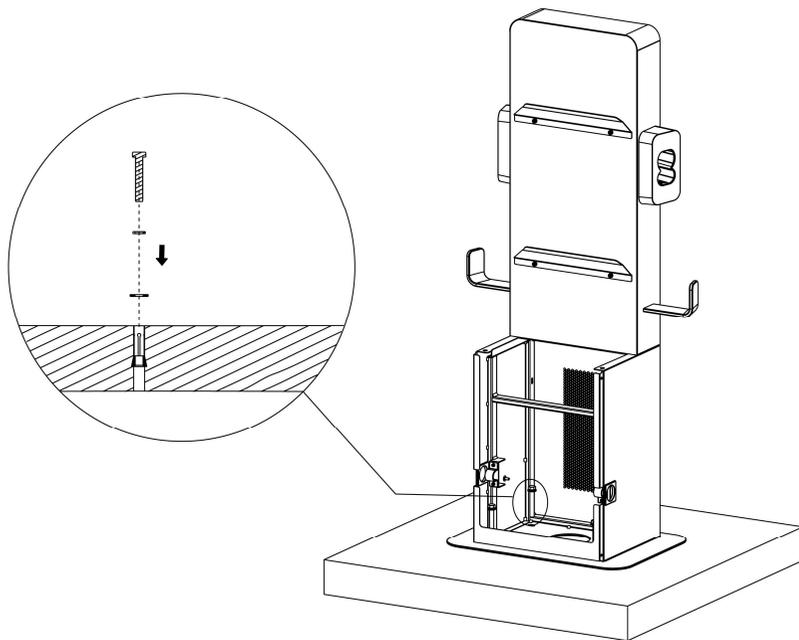
1. Tap the four M12 x 80 expansion bolts into the four drilled holes. Remove the threaded bolts (B), spring washers (C), and flat washers (D) when the expansion sleeves (A) are stuck. Set them aside.



2. Loosen the four M5 security screws at the edge of the pedestal using a T25 Torx screwdriver to remove the front cover from the pedestal. Set them aside.

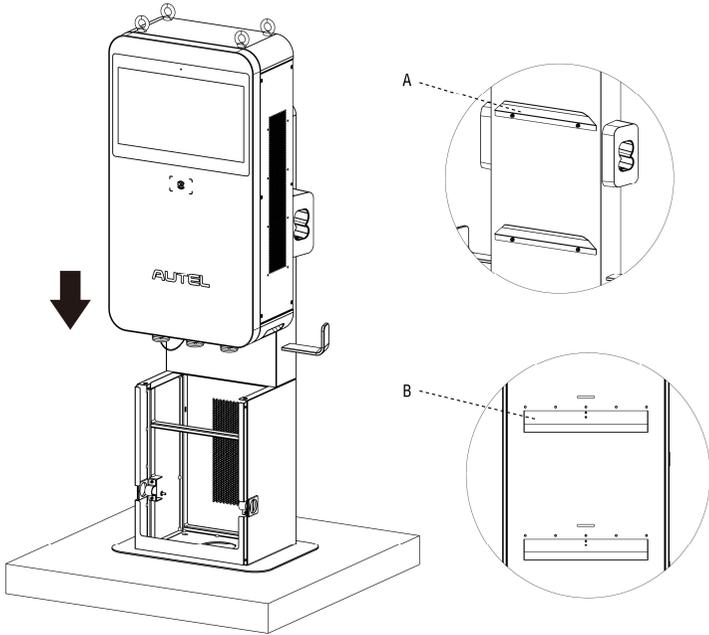


3. Place the pedestal onto the mounting location.
4. Reinsert the flat washers, spring washers, and threaded bolts in order and tighten them using a 19 mm socket wrench to 45–55 N·m.

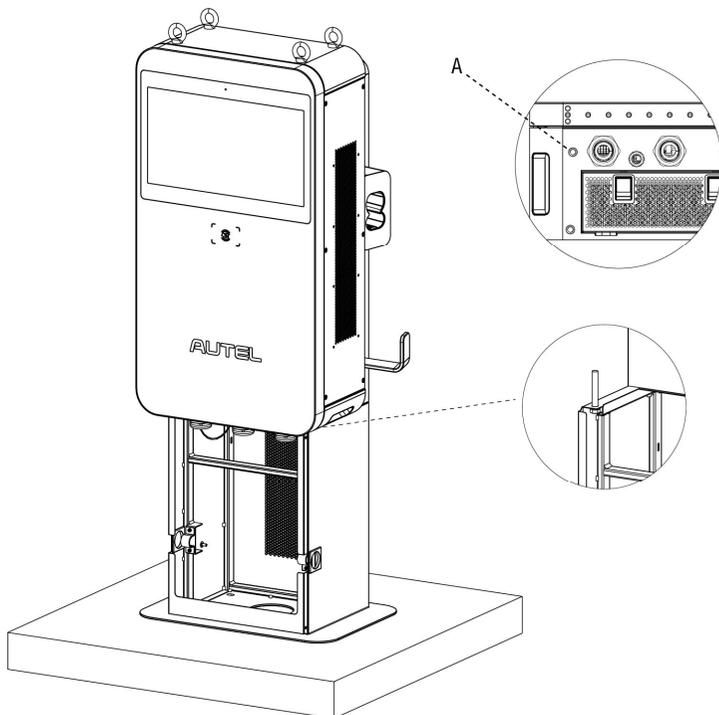


### Step 4: Mounting a MaxiCharger

1. Lift the MaxiCharger onto the pedestal by the hoisting equipment. Position the groove (B) on the back of the MaxiCharger to fit the protrusion (A) of the pedestal as shown below. Ensure the charger is securely attached.



2. Insert and fasten the two M12 x 30 screws to the bottom holes (**A**) of the charger using a 19 mm socket wrench to secure the charger.



3. Remove the four lifting eyebolts and reinstall the top screws.

## 4.4 Power Supply Wiring

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### WARNING

#### Risk of Electric Shock

- Only a qualified electrician should determine the electrical requirements and connect wires.
  - Ensure the power is off before connecting the wires.
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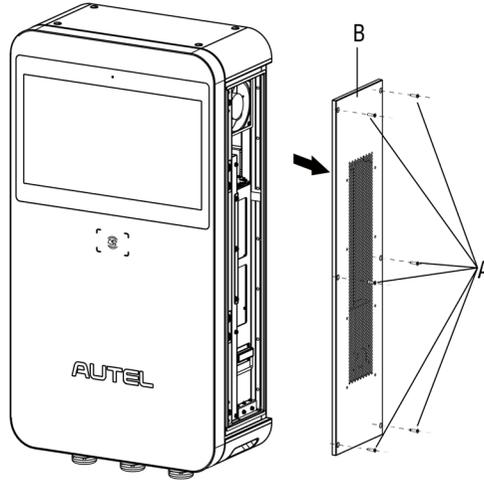
### IMPORTANT

Before connecting wires, ensure the following requirements are met:

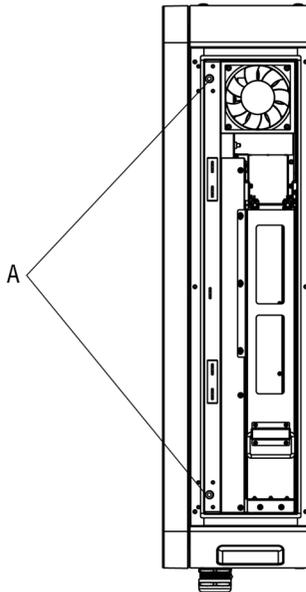
- Use 75 °C copper wire only.
  - The circuit breaker at the panel must be off.
  - The MaxiCharger must be grounded to true earth.
  - An insulated grounding conductor must be installed as part of the branch circuit that supplies the MaxiCharger.
  - The grounding conductor should be grounded to earth at the service equipment or, when supplied by a separately derived system, at the supply transformer.
  - All connections must comply with all local codes and ordinances.
  - Use 25 mm<sup>2</sup> wires.
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## 4.4.1 Opening the Door

1. Remove the six M5 security screws (**A**) on the right side of the MaxiCharger using a T25 Torx screwdriver to remove the side cover (**B**). Set them aside.

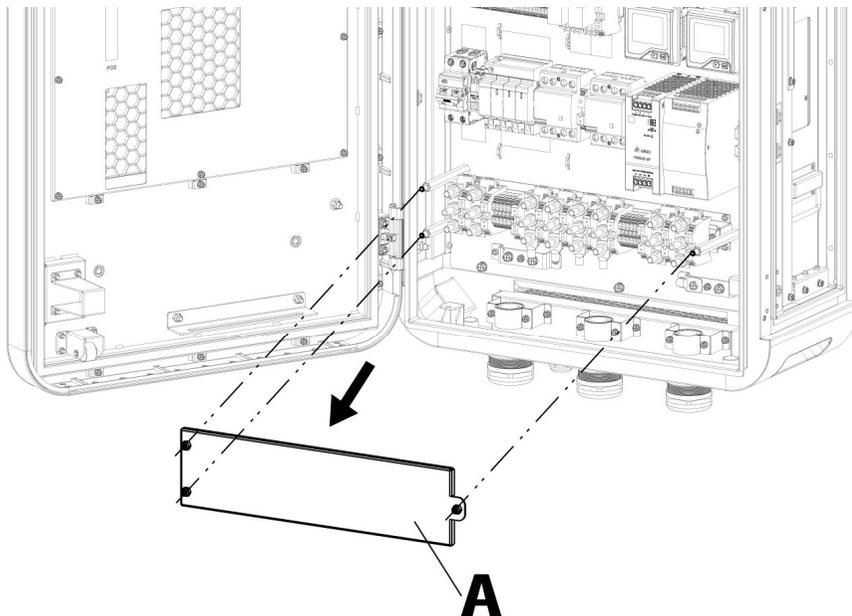


2. Loosen the two M8 hex screws (**A**) using the hex key and open the front door.



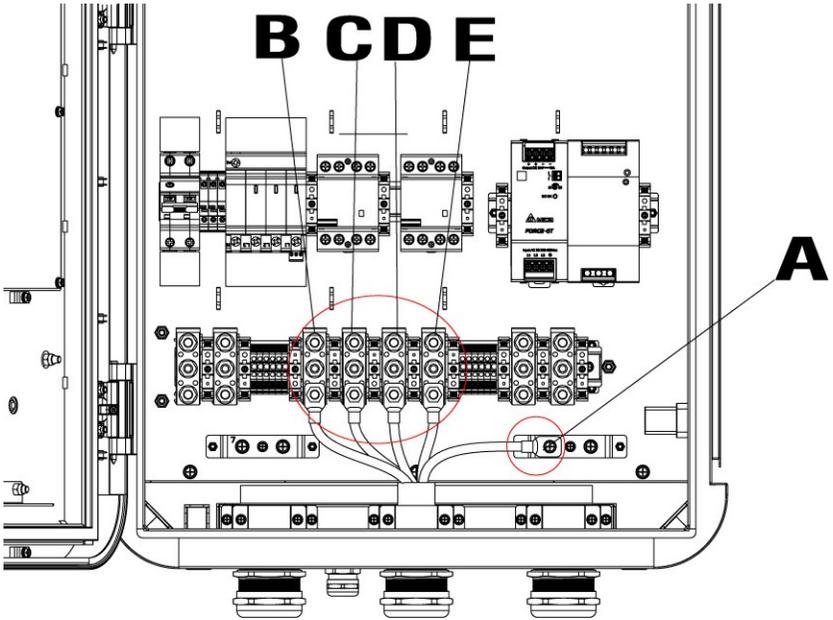
## 4.4.2 Connecting the Input Cable

1. Loosen the three M6 nuts to remove the insulating barrier (**A**) and set them aside.



2. Pull the wires and guide them through the bottom AC inlet hole.
3. Use a wire stripper to remove an appropriate length of the insulation from the end of individual wires. Ensure the stripped length is compatible with cable lugs.
4. Use the crimping tool to attach the cable lug to the end of the wires.

5. Loosen the M6 fastener using a 10 mm socket wrench and connect the PE wire to the PE busbar (**A**). Reinsert the fastener and tighten it to 6 N•m.
6. Use a 13 mm wrench to loosen the four M8 fasteners and attach the wires to the connectors:
  - L1 wire to the connector **B**
  - L2 wire to the connector **C**
  - L3 wire to the connector **D**
  - N wire to the connector **E**
7. Reinsert the M8 fasteners and tighten them to the torque 6–12 N•m.

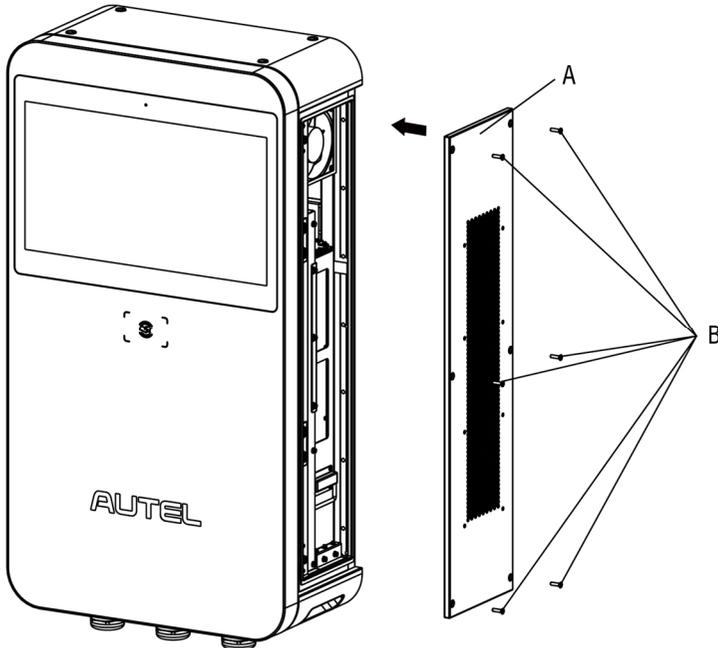


## 4.7 Completing Installation

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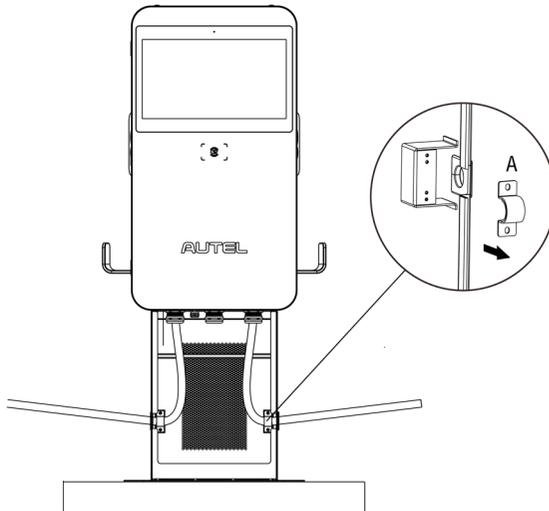
### For Mounting on a Wall:

1. Close the front door by reinstalling the two M8 hex screws using the hex key and fully tightening the screws.
2. Reinstall the side cover (A) by inserting and tightening the six M5 security screws (B) to 2 N•m using the T25 Torx screwdriver.



### For Mounting on a Pedestal:

1. Close the front door by reinstalling the two M8 hex screws using the hex key and fully tightening the screws.
2. Reinstall the side cover by inserting and tightening the six M5 security screws to 2 N•m using the T25 Torx screwdriver.
3. Organize the charging cables as described below:
  - a) Remove the two brackets (**A**) by unscrewing the four M4 screws on both sides of the pedestal using the Phillips screwdriver.
  - b) Put the cables into the rubber rings via the opening.
  - c) Reinstall the brackets by screwing the four M4 screws and tightening them to 1.2 N•m. Ensure the charging cables are allowed to remain its bending tolerance.



- d) Drape the cables over the cable holders on both sides of the pedestal and plug the connectors into the holsters.
4. Reinstall the pedestal's front cover by screwing the four M5 security screws and tighten them to 2 N•m.

## 4.8 Installing the Upstream Protective Device

Devices	Specifications
Dedicated upstream protection device(s)	Options: <ul style="list-style-type: none"><li>● RCD (Type A) + MCB</li><li>● RCBO (Type A)</li></ul>
Upstream overcurrent protection breaker, such as RCBO or MCB (The breaker serves as the main disconnect switch to the charger.)	Breaker rating should not be less than 100 A. Tripping characteristics: type C
Upstream residual-current device (RCD)	Type A, with a rated residual operation current of 30 mA

## 4.9 Preparing for Commissioning

### ❗ IMPORTANT

Only a manufacturer qualified service engineer can commission the MaxiCharger.

#### ➤ To perform the commissioning

1. Ensure the site complies the following requirements:
  - The MaxiCharger is installed according to the instructions in this manual.
  - AC input power is available.
  - Internet access is available through a wired Ethernet connection, cellular service, or Wi-Fi.
  - An EV of each type of connector must be available for a compatible test during commissioning.
  - The site operator or owner is available to receive instructions from the manufacturer certified service engineer when the MaxiCharger is installed.
2. Ensure the following information is collected:
  - Name and address of the site
  - Contact information of the on-site contact person
  - Specification of the external fuse or breaker at the power distribution panel
  - Date when the installation is done
  - Photo of the MaxiCharger and the site surroundings

- Special remarks (if any)
3. Someone should be present for assistance to energize the power to the MaxiCharger on the distribution panel.
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**!IMPORTANT**

The conduit opening must be sealed to protect the wiring from the environment.