



POLYGON

Charged By Innovation

POLYGON MANTA

Installation and user manual

Table of Contents

1. Introduction	5
1.1. Scope of the manual	5
1.2. Symbols used in this manual	6
1.3. Icons used in this manual	6
1.4. Certification and compliance	6
2. Safety	7
2.1. Safety Precaution	7
2.2. Moving and storage precautions	10
3. Product features	11
3.1. Description	11
3.2. Technical Specifications	12
3.3. Delivered components	13
4. Installation instructions	14
4.1. Prepare for installation	14
4.1.1. Plan for installation	14
4.1.2. Tools required	15
4.1.3. Power supply requirements	16
4.1. Unpacking	18
4.2. Connect the power cable	20
4.3. Install the wall bracket and charging station	25
4.3.1. Ready for use	27
5. Mobile App	28
5.1. Installing and Connecting	28
5.2. Charger Overview	30
5.3. Charger Settings and Controls	31
5.3.1. Authentication Settings	31
5.3.2. Maximum Current Adjustment	31
5.3.3. Firmware Updates	32
5.3.4. Reboot	32
6. User instructions	33
Start and stop a charging session	33
6.1. Status indication	34

6.2.	<i>Maintenance by user</i>	34
7.	Decommissioning	35
8.	Appendix	36
8.1.	<i>Glossary</i>	36

1. Introduction

This Installation and user manual describes how to install the charging station and make it ready to use. You must carefully read the safety information before you start.

1.1. Scope of the manual

The installation and commissioning instructions in this manual are intended for qualified installers who can assess the work and identify potential danger.

The user instructions are intended for users of the charging station.

Retain all documentation delivered with the charging station in a safe place for the entire life cycle of the product.

Forward all documentation to any subsequent owners or users of the product.

Disclaimer

This document is provided for informational purposes only and does not constitute a binding offer or contract with Polygon. Polygon has prepared this document to the best of its knowledge. No express or implied warranty is made regarding the completeness, accuracy, reliability, or suitability of its content or the products and services described herein.

Specifications and performance data represent average values within standard tolerances and are subject to change without prior notice. Polygon expressly disclaims any liability for direct or indirect damages of any kind arising from or related to the use or interpretation of this document.

© Polygon. All rights reserved. The Polygon name and logo are trademarks of Polygon or its affiliates.

No part of this document may be modified, reproduced, adapted, or distributed in any form or by any means without prior written permission from Polygon.

99 Gardenia Heights,
New Cairo
Cairo,
Egypt
polygonev.com

1. Introduction

1.2. Symbols used in this manual

WARNING

Indicates a potentially hazardous situation with moderate risk level which, if the warning is not obeyed, can cause death or serious injury.

DANGER

Indicates an imminently hazardous situation with a high risk level which, if the danger is not avoided, will cause death or serious injury.

CAUTION

Indicates a potentially hazardous situation with a medium risk level which, if the caution is not obeyed, may cause minor or moderate injury or damage to the equipment.

NOTE

Notes contain helpful suggestions, or references to information not contained in this manual.

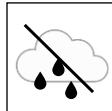
1. , a. or i.	Procedure that must be followed in the stated order.
---------------	--

1.3. Icons used in this manual

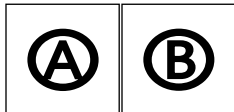
The following icons are used on illustrations in this manual.



Visually check.
Suitable for outdoor use.



For use in dry location



Choose one feature.



Installer



User

1.4. Certification and compliance

	Electrical and electronic appliances, including accessories, must be disposed of separately from the general municipal solid waste.
	Recycling of materials saves raw materials and energy and makes a major contribution to conserving the environment.

2. Safety

2.1. Safety Precaution

DANGER

Not following the installation and user instructions given in this manual will result in the risk of electric shock, which will cause severe injury or death.

- Read this manual before installing or using the charging station.

DANGER

Installation, servicing, repair and relocation of this charging station by a non-qualified person will result in the risk of electric shock, which will cause severe injury or death.

- Only a qualified electrician is permitted to install, service, repair, and relocate the charging station.
- The user must not attempt to service or repair the charging station as it does not contain user-serviceable parts.
- Local regulations may be applicable and may vary depending on your region or country of use. The

DANGER

Working on electric installations without proper precautions will result in the risk of electric shock, which will cause severe injury or death.

- Switch off the input power before installing the charging station.
- Do not switch on the charging station if it is not fully installed or not secure.
- Do not install a charging station that is faulty or has a noticeable issue.

DANGER

Operating the charging station when it is damaged or worn will result in the risk of electric shock, which will cause severe injury or death.

- Do not operate the charging station if the power supply, the enclosure or an EV connector is broken, cracked, open, or shows any other indication of damage.
- Do not operate the charging station if a charging cable is frayed, has broken insulation, or shows any other indication of damage.
- In the event of danger and/or an accident, have the electrical supply to the charging station disconnected immediately.
- Contact your installer if you suspect that the charging station is damaged.

2. Safety precaution

DANGER

Extensive exposure of the charging station to water will result in the risk of electric shock, which will cause severe injury or death.

- Do not direct powerful jets of water toward or onto the charging station.
- Do not put the charging plug into any liquid.

WARNING

Installing the charging station during wet environmental conditions (for example, rain or fog) can result in the risk of electric shock and damage to the product, which can cause severe injuries or death.

- Do not install or open the charging station during wet environmental conditions (for example, rain or fog).

WARNING

Incorrect use of the charging station will result in the risk of electric shock, which may cause injury or death.

- Make sure that the contact area of the charging plug is free from dirt and moisture before starting a charging session.
- Make sure that the charging cable is positioned so that it will not be stepped on, tripped over, driven over, or otherwise subjected to excessive force or damage. Where applicable, make sure that the charging cable is correctly stowed when it is not in use, making sure that the charging plug does not touch the ground.
- Only pull on the charging plug hand grip and never on the charging cable itself.
- Keep the charging station, charging cable and charging plug away from heat sources, dirt, and water.
- Do not use explosive or readily flammable substances near the charging station.

WARNING

Using adapters, conversion adapters, or cord extensions with the charging station may result in technical incompatibilities and can result in damage to the charging station, which will cause injury or death.

- Use this charging station to charge compatible electric vehicles only. Refer to the charging station specifications in the charging station installation manual for details.
- Refer to your vehicle user manual to check if your vehicle is compatible.

WARNING

Exposure of the charging station or the charging cable to heat or flammable substances can result in damage to the charging station, which will cause injury or death.

- Make sure that the charging station or the charging cable never come into contact with heat.
- Do not use explosive or readily flammable substances near the charging station.

2. Safety precaution

WARNING

Using the charging station under conditions not specified in this manual may result in damage to the charging station, which may cause injury or death.

- Use the charging station only under the operating conditions specified in this manual.

WARNING

Working on electrical installations without using personal protective equipment will result in the risk of injury.

- Use personal protective equipment such as eye protection, cut-resistant gloves, and non-slip safety shoes to prevent personal injuries.

WARNING

Fire safety:

- When safe to do so, have the electrical supply to the equipment that is burning or endangered by fire disconnected.
- Do not use water to extinguish electrical installations and equipment that have a live power supply.
- To extinguish charging station, use an extinguisher that is specified for use on electrical equipment with a

CAUTION

Charging a vehicle with the charging cable not completely extended may result in overheating of the cable, which can damage the charging station.

- Before you connect the charging cable to the vehicle, fully unwind the cable. Make sure that the charging cable has no overlapping loops.

CAUTION

Putting fingers into or leaving other objects inside the plug port for example, during cleaning) may cause injury or can damage the charging station.

- Do not put your fingers into the plug port.
- Do not leave objects inside the plug port.

CAUTION

Not taking precautions against ESD (Electrostatic discharge) can damage electronic components in the charging station.

- Take the necessary precautions against ESD before touching electronic components.

2. Safety precaution



CAUTION

Not enabling firmware updates for this charging station, or disabling, opting out of, or otherwise failing to install available firmware updates, may cause the charging station to encounter problems, function with errors, and be more prone to safety or security risks.

2.2. Moving and storage precautions

Obey the following guidelines when moving and storing the charging station:

- Disconnect the input power before removing the charging station for storage or relocation.
- Transport and store the charging station only in its original packaging. No liability can be accepted for damage incurred when the product is transported in non-standard packaging.
- Store the charging station in a dry environment in the temperature and humidity ranges given in the technical specifications.

3. Product features

3.1. Description

1. **Charging station**

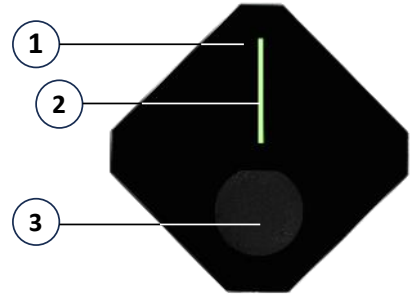
The charging station is mounted on a wall. The charging station connects to the Polygon EV mobile app using Bluetooth.

2. **LED indicator**

The LED indicator has four LEDs to indicate the status of the charging station.

3. **Socket**

Connect the plug of a type 2 charging cable to the socket.

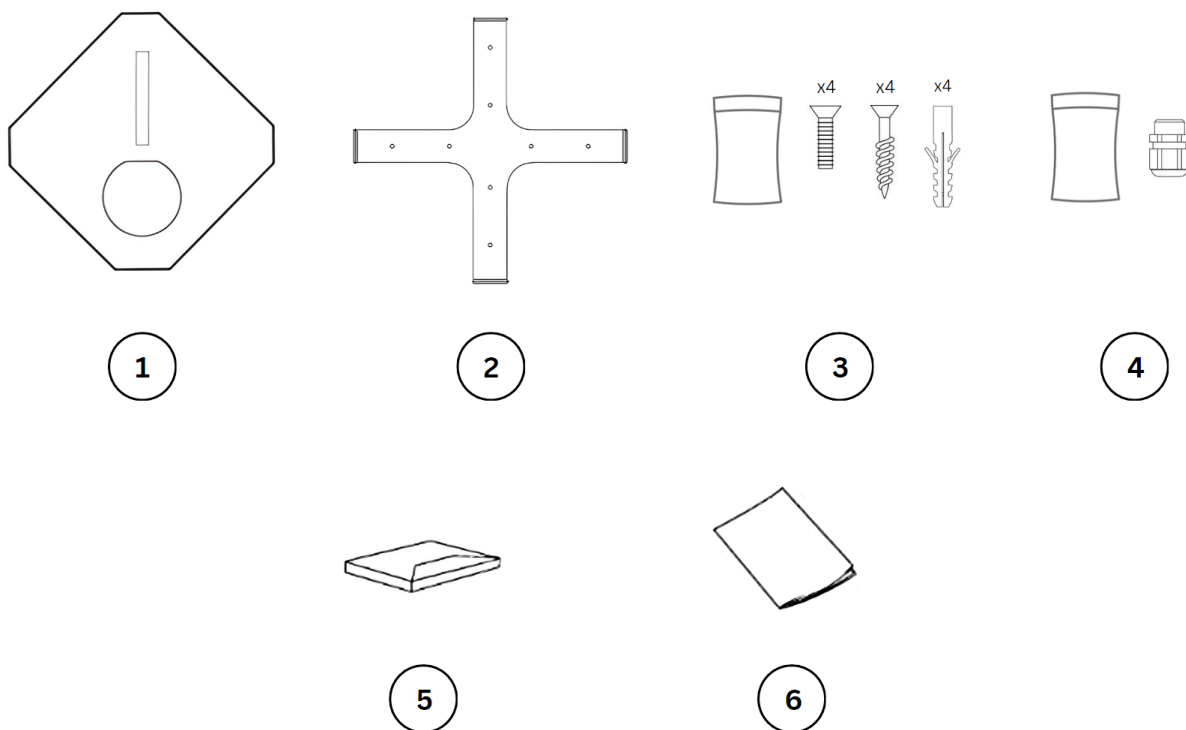


3.2. Technical Specifications

Feature	Description
Electrical properties	
Maximum charge rate	Up to 22 kW (3-phase, 32 A). Note Derating may occur. The charge rate depends on factors such as the demand from the EV, the available power supply, and the ambient temperature.
Charging mode	Mode 3 (IEC 61851-1).
Socket	Type 2 socket (IEC 62196-2).
Input capacity	1-phase, 230 V $\pm$ 10%, maximum 32 A $\pm$ 6%, 50/60 Hz. 3-phase, 400 V $\pm$ 10%, maximum 32 A $\pm$ 6%, 50/60 Hz.
Power cable sheath diameter	13 to 25 mm.
Power cable wire gage	Solid wire: maximum 10 mm ² . Stranded wire with ferrule (without plastic sleeve): maximum 6 mm ² .
Rated impulse withstand voltage (U_{imp})	4000 V.
Rated Insulation voltage (U_i)	250V AC (phase to ground). 450 V AC (phase to phase).
DC leakage detection	Tripping times and limits are compliant with IEC 61851-1:2017 Cl.8.5 (in accordance with IEC 62955:2018 Table 2).
Environment and safety class	
Operating temperature range	-20 °C to +50 °C.
Storage temperature range	-40 °C to +70 °C.
Humidity (non-condensing)	95% @ 75 °C.
Maximum installation altitude	3000 m above sea level.
Protection Rating	Water, dust proof
Mechanical resistance for stationary assembly	High resistance.
Connectivity	
Authorization	RFID reader, or using Polygon Ev App.
Wi-Fi	2.4 GHz.
Bluetooth	Bluetooth v4.2
Physical properties	
Dimensions (W x H x D)	262 x 262 x 158 mm.
Weight	12 kg.
Certification and compliance	
Power supply input	EV supply equipment permanently connected to AC supply network.
Power supply output	AC EV supply equipment.
Normal environmental conditions	Indoor and outdoor use.
Access	Equipment for locations with non-restricted access.
Equipment type	Stationary equipment that is wall-mounted.

3.3. Delivered components

Components in the charging station box



1. Charging Station
2. Wall bracket
3. Installation kit
 - 3.1. Charger screws, M3, Allen (x4)
 - 3.2. Wall bracket screws, M6, (x4)
 - 3.3. Wall-plugs, 8x65 mm, (x4)
4. Cable gland kit
 - 4.1. Cable gland (with seal and blanking)
5. User & installation manual
6. Warranty certificate

4. Installation instructions

4.1. Prepare for installation

4.1.1. Plan for installation

The following recommendations are a guide to help you plan the installation of the charging station.

Choose location

Position the charging station, where possible, in a location where it is not exposed to direct sunlight and vulnerable to external damage.

- The wall must have a flat structure and must be able to hold a load of at least 100 kg.
- The minimum free space around the charging station is 300 mm.



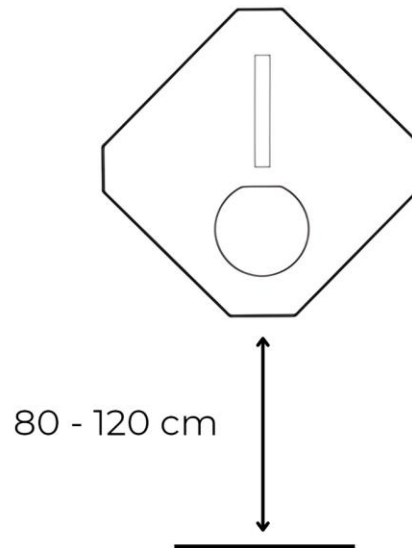
CAUTION

Risk of water ingress. Rain and moisture can enter the charging station when the top cable entry is used outdoors, which can damage the charging station.



Note

The following illustration shows a standard installation height. Observe and comply with the local accessibility regulations.



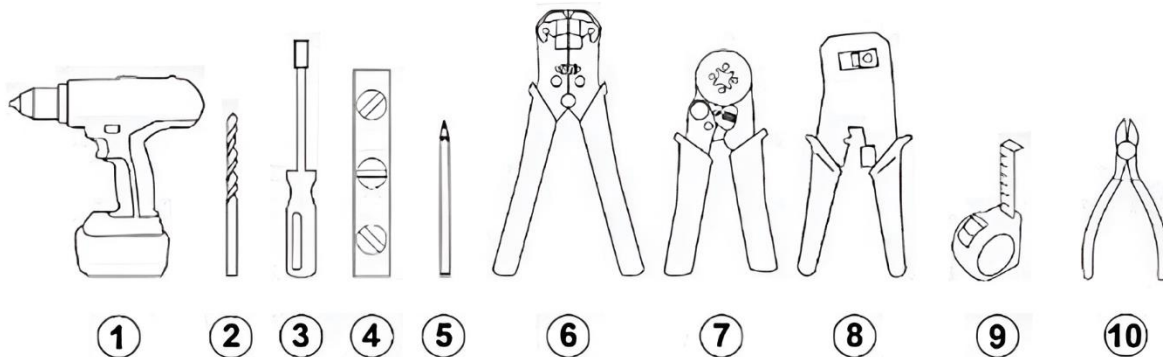
4. Installation instructions

Pre-installation checklist

Before starting the installation of the charging station, check the following:

- The installation will be in accordance with IEC 60364 and any applicable local regulations.
- All necessary permits have been obtained from the local authority that has jurisdiction.
- The existing electrical load has been calculated to find the maximum operating current for the charging station installation.
- A miniature circuit breaker (MCB) and residual current device (RCD) are installed upstream and have the recommended ratings. See [Power supply requirements on page 14](#).
- The correct specification of power supply cable has been routed to the installation area, and there is sufficient cable length to strip and connect the wires.
- The power supply cable will remain within its bending tolerance during and after installation.
- The recommended tools are available on site.
- The plugs, screws, and bit used for installing the charging station are suitable for the wall structure.

4.1.2. Tools required



1. Drill
2. Drill bit for masonry, 8 mm (5/16in).
3. Screwdriver with bit holder.
4. Spirit level.
5. Pencil.
6. Wire stripper (power cable)
7. Ferrule crimp tool
8. Wire stripper and crimp tool
9. Tape Measure
10. Wire Cutters

4.1.3. Power supply requirements

DANGER

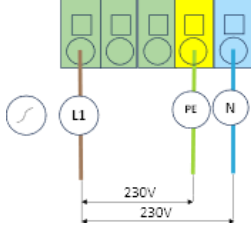
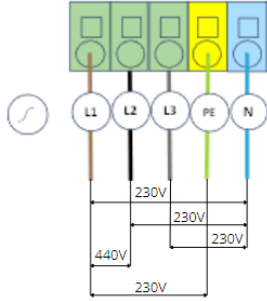
Connecting the charging station to the power supply other than as specified in this section can result in incompatibility of the installation as well as the risk of electric shock, and thus cause damage to the charging station, and injury or death.

Earthing system	TN-S system	PE-cable.
	TT system	Earth electrode installed
Power input (phase)	1-phase	230V $\pm 10\%$, up to 32 A $\pm 6\%$, 50/60 Hz.
	3-phase	400V $\pm 10\%$, up to 32 A $\pm 6\%$, 50/60 Hz.
MCB (Miniature Circuit Breaker)	• Tripping characteristic: Type C. • The tripping current of the MCB can decrease if the ambient temperature in the power supply cabinet becomes high. Consider potential higher ambient temperatures when choosing the MCB specifications.  Note • The installation, including the MCB, must be in accordance with IEC 60364 and any applicable local regulations. • The MCB must match the amperage settings of the charging station and the maximum current available for the charging station, in accordance with the MCB manufacturer specifications. • The maximum I^2t value of the MCB shall not exceed 75000 A²s.	
RCD (Residual Current Device)	• RCD amperage rating: The rating must match the amperage of the charging station. • Standard installations: The RCD must be a Type A with a rated current of 20A or 40A and have maximum 30 mA AC leakage current detection. • EV Ready installations: The RCD must be a Type A+, high immunity (for example: HP, SI, HI, KV, etc., depending on the RCD manufacturer).  Note • The installation, including the RCD, must be in accordance with IEC 60364 and any applicable local regulations. • The charging station has internal DC leakage detection with tripping times and limits compliant with [EC 61851-1:2017 Cl. 8.5. (in accordance with IEC 62955:2018 Table 2). (Specific Models Only)]	

4. Installation instructions

Power supply wiring

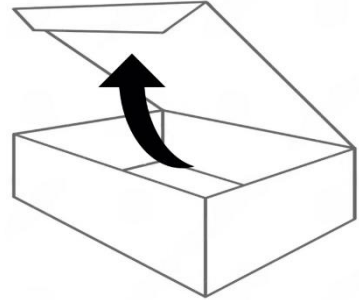
The tables below describe how to connect the power supply to the charging station.

1-phase with neutral	3-phase with neutral
 The diagram shows a 1-phase connection with a neutral. A brown wire (L1) is connected to the first terminal, a green/yellow wire (PE) to the second terminal, and a blue wire (N) to the third terminal. Voltage labels indicate 230V between L1 and PE, and 230V between PE and N.	 The diagram shows a 3-phase connection with a neutral. Brown (L1), black (L2), and grey (L3) wires are connected to the first three terminals. A green/yellow wire (PE) is connected to the fourth terminal, and a blue wire (N) to the fifth terminal. Voltage labels indicate 230V between L1 and L2, 230V between L2 and L3, 230V between L3 and PE, 230V between PE and N, 440V between L1 and L3, and 230V between L1 and N.
 CAUTION Terminals L2 and L3 must not be used.	

4. Installation instructions

4.1. Unpacking

1. Place the box on a stable surface and lift the top flap.

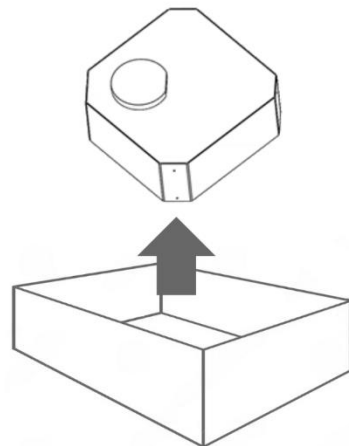


2. The charger is secured with foam inserts on the sides. Carefully remove them to access the charger.

Note

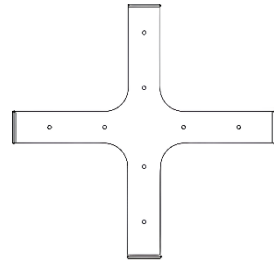
- The charger is covered with a protective sticker on its surface to prevent damage. Do not remove it until installation is complete

3. Firmly grip the charger on both sides and lift it out of the box. Set it aside on a clean, stable surface.

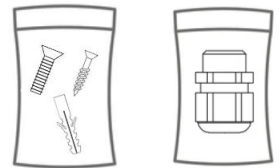


4. The wall mount bracket is located beneath the charger. Remove it from the box and set it aside for installation.

4. Installation instructions



5. Inside the box, you will also find the installation kit and cable gland kit in separate plastic bags. Take them out and set them aside.



6. Once all components are unboxed, refer to the installation instructions for the next steps

4.2. Connect the power cable

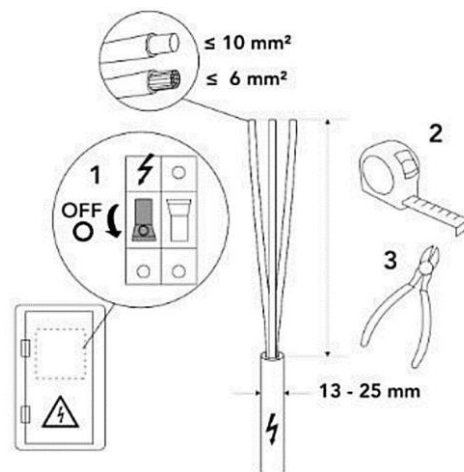
Note

Some Manta charger models come with a pre-attached power cable. In this case, each wire is already labeled (L1, L2, L3, N, PE).

If your unit includes a pre-installed cable, you may skip the steps in this section and proceed directly to connecting the labeled wires to your power supply, following the wiring guidelines on page 14.

The supplied cable gland can be used on a power cable with a sheath diameter of 13 to 25 mm. The terminal blocks accept a wire gage in the following range:

- Solid wire: maximum 10 mm².
- Stranded wire with ferrule (without plastic sleeve): maximum 6 mm²

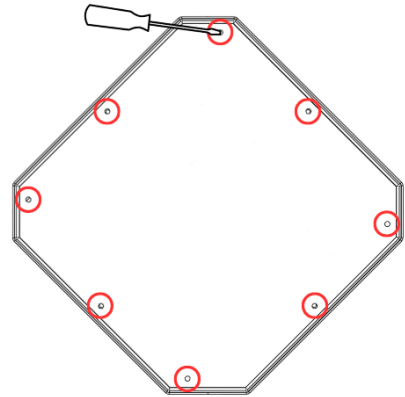


1. Open the Charger
 - a. Lay the charger on its back and remove the 8 Allen screws holding the back cover, each secured with an O-ring.

4. Installation instructions

WARNING

Store the screws and O-rings carefully. Reinstalling the screws without the O-rings can compromise the charger's waterproof seal, leading to water ingress, malfunction, or electric shock.



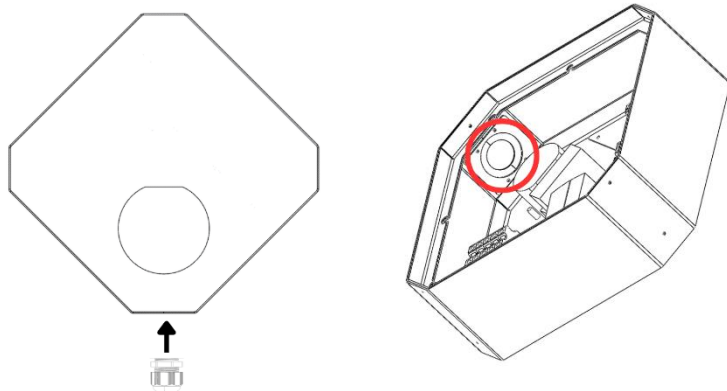
- b. Lift the backplate and set it aside. Underneath, you will find a silicone seal running around the charger. Carefully remove the seal, as it is fragile. You may leave it in place, but it will likely shift.

WARNING

If the silicone seal is not properly reinstalled, water could enter the charger, causing failure or electrical hazards.

2. Install the Cable Gland

- a. Attach the cable gland to the bottom of the charger and secure it from the inside now that you have access.



4. Installation instructions

3. Prepare and connect the power cable as follows

WARNING

Incorrect connection of the power wires can result in the risk of electric shock, and thus cause damage to the charging station, and injury or death.

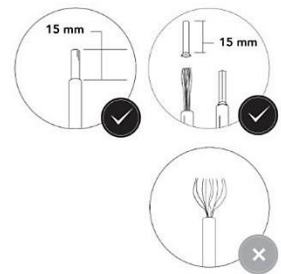
- Make sure that the power wires are securely connected to the terminal block.

- Feed the cable through the cable gland at the bottom of the charger.
- Cut the power cable and strip the outer sheath, ensuring enough length for proper connection, if necessary, apply extra insulation on individual wires.

CAUTION

To protect Separated Extra Low Voltage (SELV) circuits, the stripped single-insulated wires must not touch the components on the main board. When required, install double insulation on the individual wires, for example using heat-shrink tubing or insulation sleeves.

- Strip the wire ends of the power cable. When stranded wires are used, install wire end sleeves and apply a square crimp for optimal fit into the terminal blocks.

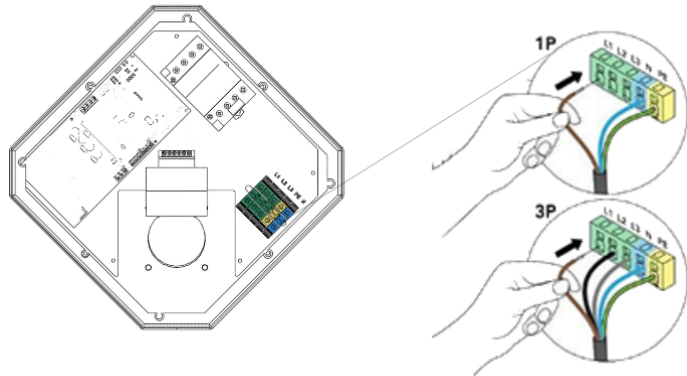


- Push the wires into the terminal blocks. Connect the wires in accordance with the power supply wiring schematics in [Power supply requirements on page 17](#).

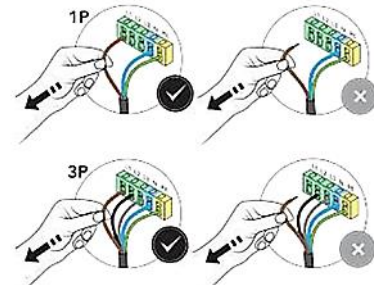
4. Installation instructions

Note

The connections L1, L2, L3, N and PE are shown on the terminal blocks.'



- e. Ensure that the wires are connected by pulling each wire.



- f. Tighten the cable gland to secure the power cable and to maintain the IP code for the charging station.

4. Close the charger

- a. Carefully place the silicone seal back around the charger and ensure it is fully seated and aligned to maintain the waterproof seal.

4. Installation instructions



WARNING

An improperly placed seal can lead to water ingress, potentially causing malfunctions or electrical hazards.

- b. Position the back cover over the charger, aligning it properly with the screw holes. Insert and tighten the 8 screws, ensuring they go into their original positions. Do not forget the O-rings!

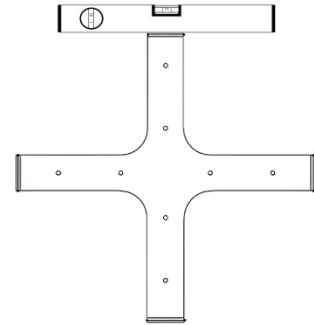


WARNING

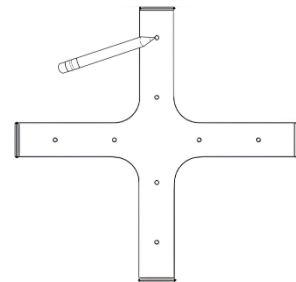
Failing to reinstall the O-rings can compromise the charger's waterproofing, leading to potential damage or electrical risks.

4.3. Install the wall bracket and charging station

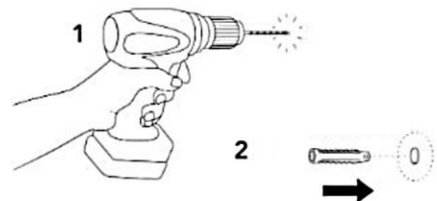
1. Install the wall bracket as follows:
 - a. Hold the wall bracket on the wall and level it using a spirit level.



- b. Using a pencil, mark the four screw hole positions on the wall, then remove the wall bracket.

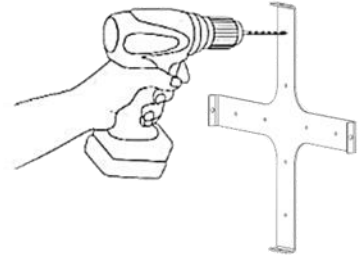


- c. Drill four 8 mm holes to a depth of 70 mm, then install four 8 x 65 mm wall plugs.



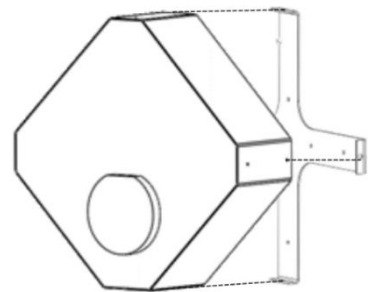
4. Installation instructions

- d. Install the wall bracket using four T20 6 x 70 mm screws and M6 washers. Ensure it is firmly in place before proceeding.

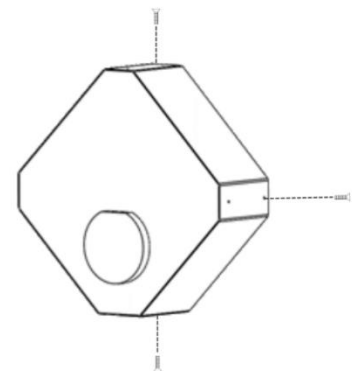


2. Install the charging station as follows:

- a. Position the charger so that all four sides align with the mounted bracket.



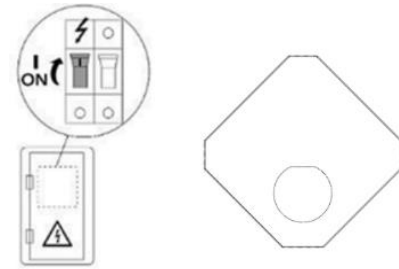
- b. Install the M3 Allen screws into the designated slots on the top, bottom, left, and right sides of the charger.



- c. Ensure all screws are securely fastened to hold the charger in place

3. Switch on power to the charging station.

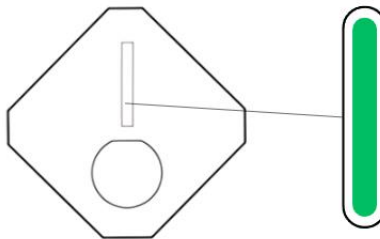
4. Installation Instructions



The charging station is now fully installed. A yellow LED light up as it starts up. Once the LED turns green, it is fully initialized and ready to use.

4.3.1. Ready for use

The charging station is ready to charge an EV when green is shown on the LED indicator.



Make sure that the user knows how to charge an EV and understands the meaning of the LED states. Retain all documentation delivered with the charging station in a safe place for the entire life cycle of the product

5. Mobile App

To ensure optimal performance and full control over your charging experience, your Manta Home Charger can be configured through the PolygonEV Mobile Application. The app provides a simple and intuitive interface to connect to your charger, monitor live data, and adjust various settings.

5.1. Installing and Connecting

1. Scan the QR code below to download and install the PolygonEV mobile application from the App Store (iOS) or Google Play Store (Android).



2. Before connecting to your charger, please ensure the following:
 - Bluetooth is enabled on your smartphone.
 - The PolygonEV app has been granted Bluetooth access permissions.
 - On some devices, Location Services must also be enabled for Bluetooth pairing to function.

Note

The app does not collect or share your location in any way — this requirement is imposed by the mobile operating system for Bluetooth device discovery.

5. Mobile App

3. To add a new charger, ensure your smartphone is within Bluetooth range of the unit, then tap the “+” icon in the top-right corner of the screen. (See [Figure 1])
4. A list of nearby devices will appear. Locate your Manta Home Charger and tap Connect.

Note

If prompted for an authentication code, use the following rule:

Pairing Code = Device Number + 1

For example, if the charger name displayed is **Manta 123456**, enter **123457** as the authentication code.

5. Once pairing is complete, the charger will be saved in your app. You can reconnect later by simply tapping Connect from the Home Screen list. (See [Figure 2])

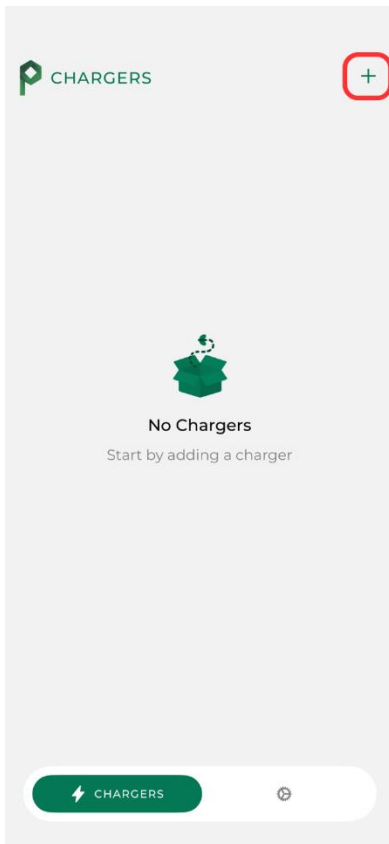


Figure 1

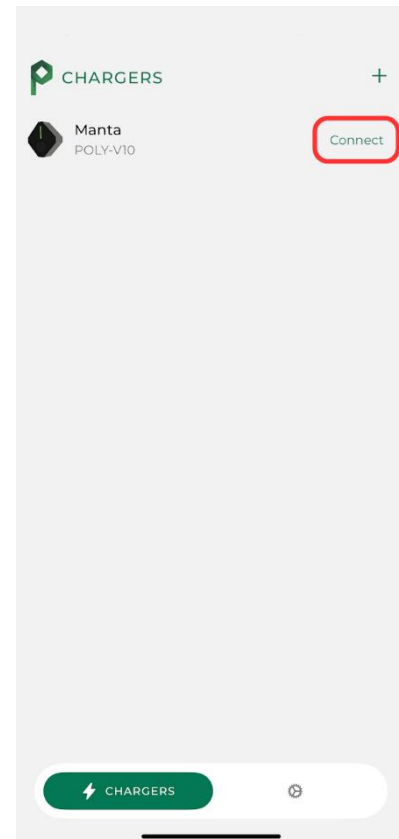


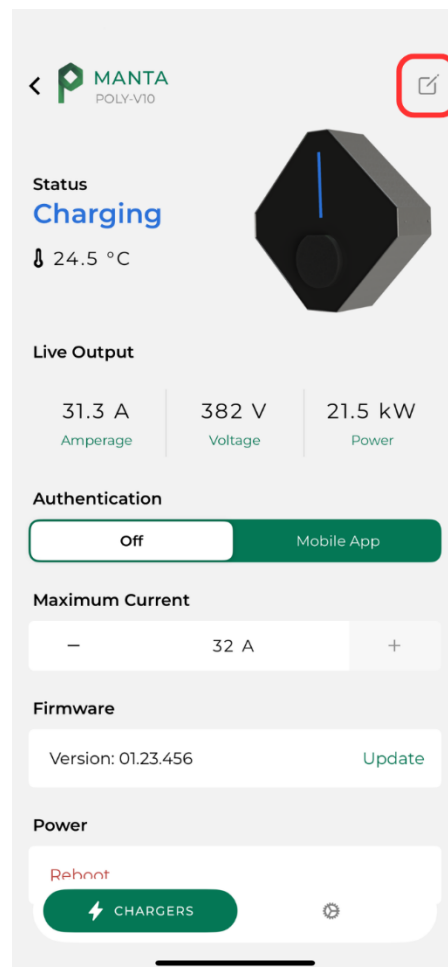
Figure 2

5.2. Charger Overview

After connecting, the Charger Details screen will open.

Here you can view and manage your charger's information and live data.

- The charger name appears at the top. Tap the edit icon (✎) on the top-right to rename your device.
- A status panel displays:
 - The charger's current state (Ready, Connected, Charging, etc.)
 - The LED color indicator (which matches the LED on the physical charger).
 - Internal temperature and live voltage, current, and power readings.
- For three-phase models, the voltage typically reads around 380 V, and the displayed current represents the average across all three phases.



5.3. Charger Settings and Controls

5.3.1. Authentication Settings

In the Authentication section, you can enable Mobile App Authentication to restrict access to authorized users. (See [Figure 3])

When enabled, a charging session can only begin after being approved via the mobile app — ensuring only permitted users can charge their vehicle.

5.3.2. Maximum Current Adjustment

In the Maximum Current section, you can set the charger's maximum output current between 6 A and 32 A. (See [Figure 4])

This feature is useful when:

- You want to reduce charging speed to extend vehicle battery lifespan, or
- You need to limit current draw to match your home's electrical capacity.

Adjust the current using the on-screen buttons “+” and “-”

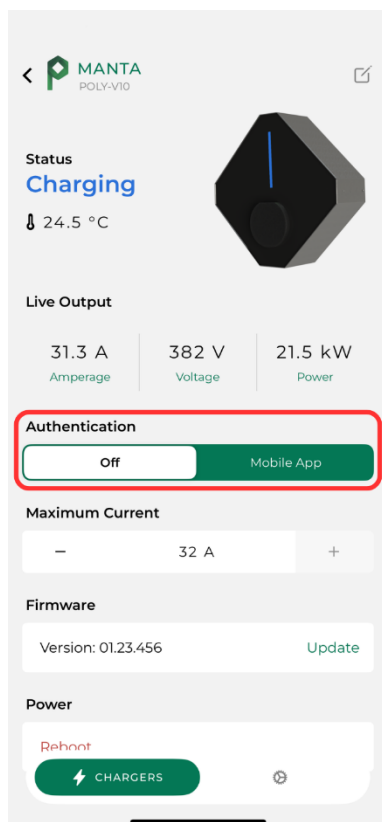


Figure 3

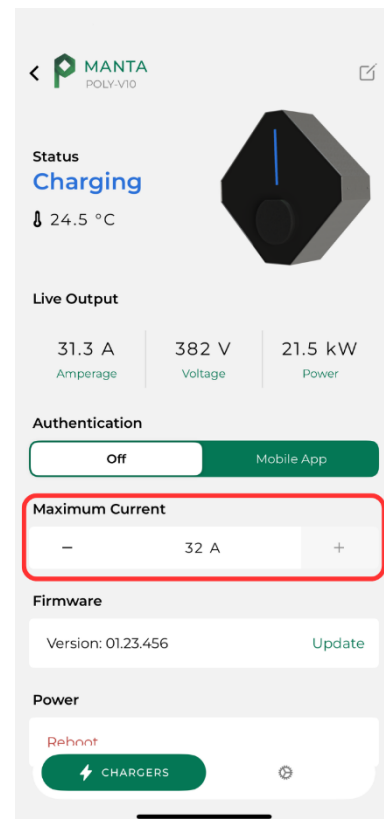


Figure 4

5. Mobile App

5.3.3. Firmware Updates

The Firmware Update section allows you to check for and install the latest software updates for your charger. (See [Figure 5])

Updates may include:

- Performance improvements
- New features
- Compatibility enhancements for newer EV models

Tap Check for Updates and follow the on-screen instructions to complete the update process.

Note

Always ensure your smartphone remains within Bluetooth range while pairing or updating firmware.

5.3.4. Reboot

At the bottom of the screen, tap Reboot to restart the charger if needed. (See [Figure 6])

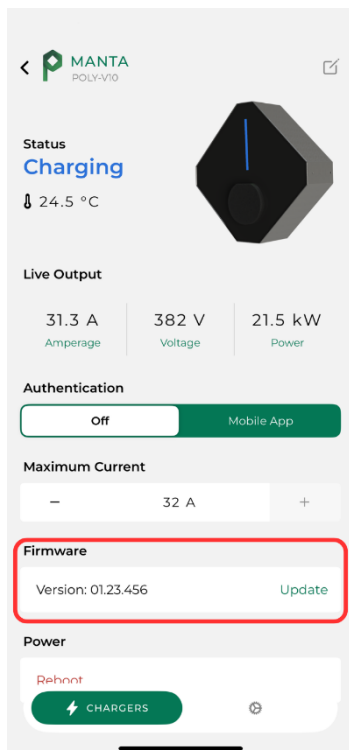


Figure 5

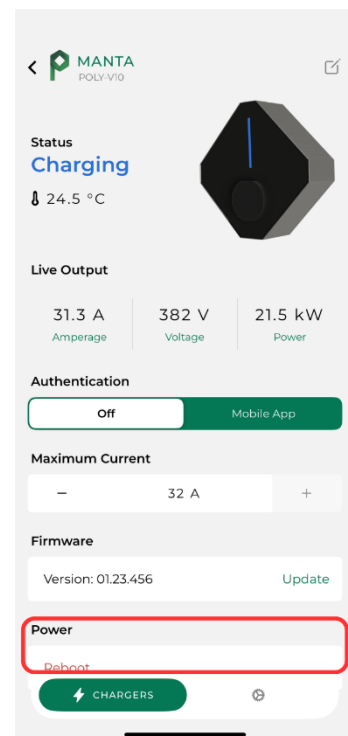


Figure 6

6. User instructions

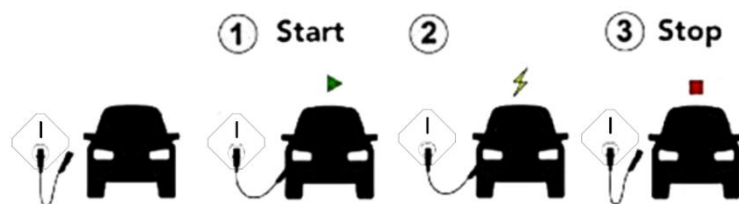
DANGER

Operating the charging station when it is damaged or worn will result in the risk of electric shock, which will cause severe injury or death.

- Do not operate the charging station if the power supply, the enclosure or an EV connector is broken, cracked, open, or shows any other indication of damage.
- Do not operate the charging station if a charging cable is frayed, has broken insulation, or shows any other indication of damage.
- In the event of danger and/or an accident, have the electrical supply to the charging station disconnected immediately.
- Contact your installer if you suspect that the charging station is damaged.

Start and stop a charging session

1. Start charging:
 - Fully unwind your charging cable.
 - Connect the charging cable to the charging station and your vehicle.
 - If you use the PolygonEV app for authentication, open it, connect to the charger and authorize.
2. Your vehicle is charging.
3. Stop charging:
 - Disconnect the charging cable from your vehicle first then from the charging station.



6.1. Status indication

LED indicator	Color	Mode	State description
	Green	Normal	The charger is ready for use.
	Yellow	Normal	A vehicle is connected, but charging has not started.
	Blue	Normal	The vehicle is charging.
	Blue	Blinking	Charging requires ventilation. Check the installation area.
	Red	Normal	An error has occurred.
	Blue	Blinking	A ground fault has been detected. Charging is disabled for safety.

6.2. Maintenance by user

The user of the charging station is responsible for the condition of the charging station, whereby both the law regarding the safety of persons, animals, and property must be observed, as well as the installation regulations in force in the country of use. Have the charging station and its installation inspected by a qualified electrician on a regular basis and in compliance with installation regulations applicable in your country.

DANGER

Extensive exposure of the charging station to water will result in the risk of electric shock, which will cause severe injury or death.

- Do not direct powerful jets of water toward or onto the charging station.
- Do not put the charging plug into any liquid.

CAUTION

Do not use aggressive chemical cleaners or solvents to clean the charging station.

1. Remove dirt and natural organic matter from the outside of the charging station using a damp soft cloth. Make sure that the LED indicator and the light sensor are clean.
2. Visually check the charging station and the socket. If you suspect that the charging station or socket are damaged or dirty, contact a qualified electrician to repair or replace the damaged components.
3. Gently pull on the charging station to make sure it is still securely attached.

7. Decommissioning

Decommission and recycle the charging station in accordance with the applicable local disposal regulations.

	Do not dispose of this charging station in household waste. Instead, dispose of this charging station at a local collection point for electric/electronic devices in order to enable recycling and thus avoid negative and hazardous impacts on the environment. Ask your city or local authorities for respective addresses.
	Recycling of materials saves raw materials and energy and makes a major contribution to conserving the environment.

8. Appendix

8.1. Glossary

Abbreviation	Meaning
1P	1-phase power supply (input and output). The station rating is shown on the bottom of the station.
3P	3-phase power supply (input and output). The station rating is shown on the bottom of the station.
AC	Alternating Current.
DSO	Distribution System Operator. The operator responsible for the electrical power supply network.
ESD	Electrostatic discharge.
EV	Electric vehicle.
RF	Radio frequency communication
LED	Light Emitting Diode.
MCB	Miniature Circuit Breaker.
RCD	Residual Current Device.