



The AC E Series

Model: PDSPE

Installation and User Guide

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EVONITY B.V.

Vlinderstraat 20, B-3550 Heusden-Zolder, TEL 0800 820 54

All information in and attached to this document is property of EVONITY B.V. and should not be shared with others without prior approval of the owner.

1. SAFETY AND USAGE INSTRUCTIONS

1.1 Purpose and Target Audience of the Instruction Guide

This instruction guide is intended for the product named PRO DUO S E by the company Evonity B.V., located at Vlinderstraat 20, 3550 Heusden-Zolder, registered under number BE0790.766.071 ("Evonity"). PRO DUO S E by Evonity is specifically designed for charging electric vehicles and, when properly installed, can be used by a non-technically trained individual user. Follow the instructions in this manual carefully to correctly install and operate the charging station.

The installation, commissioning, and maintenance of the charging station should only be carried out by a qualified technician. It is of utmost importance that this qualified technician meets the following requirements:

- Proficiency in general and specific safety regulations and accident prevention.
- Comprehensive knowledge of relevant electrical regulations.
- The ability to identify risks and avoid potential hazards.
- The installation and usage guidelines must be received and read by the qualified technician.

1.2 Explanation of the Textual Instructions

In this document, safety warnings and precautions related to PRO DUO S E are indicated as follows::

DANGER

A signal indicating an imminent hazardous situation where failure to avoid it could result in severe or fatal injury.

WARNING

A warning indicator alerting to a potential hazardous situation where, if not prevented, severe or fatal injury may occur.

CAUTION

An indicator to denote a potentially risky situation where, if not prevented, minor to moderate injuries may occur.

NOTE

An indicator to provide additional information or details about potential product damage.

1.3 General Safety

Ensure that you always follow the safety instructions:

DANGER

Avoid using the charging station in the vicinity of explosive materials or highly flammable substances.

DANGER

Do not use the charging station if it is partially submerged in water.

DANGER

Do not use the charging station if it is damaged or if the plugs and cables are in poor condition. Contact the CPO immediately to have any defects repaired.

DANGER

Keep this product out of reach of children and individuals who are unable to assess the risks.

CAUTION

Ergonomic advice: Due to the weight >23kg, it is recommended to lift the products with two people. This minimizes the risk of physical strain and ensures safe handling of the product.

Comprehensive safety information can be found in the relevant sections of this document.

1.4 Disclaimer

This document has been carefully reviewed for technical accuracy prior to publication. It is periodically revised, with potential adjustments and corrections incorporated in later versions. While Evonity is committed to maintaining the document as accurate and up-to-date as possible, Evonity cannot be held responsible in any way for deficiencies and damages arising from the use of information from this document.

NOTE

This manual may be updated and modified. The most recent version will always be available for download at Evonity.com. Errors and omissions are subject to change.

1. SAFETY AND USAGE INSTRUCTIONS

Any variation in Evonity products, including but not limited to, customer-specific modifications such as applying stickers, inserting SIM cards, or using different colors, referred to here as "Customization," may impact the final product experience, the product's appearance, product quality, and/or product lifespan (the Customized product).

Evonity does not accept responsibility for damage to or caused by the Customized product if such damage is due to the applied modifications.

Evonity B.V. shall not be liable in any way for damages, and the (carry-in) warranty for the product and accessories is not applicable in the following cases, and not only limited to:

- Non-compliance with the instructions in this manual in general and operational conditions specifically.
- Improper use.
- External damage.
- Installation, commissioning, or incorrect repair or maintenance by unqualified individuals.
- Network or GPS/GPRS provider error.
- Modification or expansion of the product or accessories without the knowledge of Evonity B.V.
- Use of replacement parts not approved or manufactured by Evonity.
- Use of the charging station outside the operating conditions specified in this manual.
- Situations beyond the control of Evonity B.V. (force majeure).
- Malfunction of an open back-office of the charging point.
- Damage to the electric vehicle.

1.5 Copyrights

Copyright © 2023 Evonity B.V. All rights reserved. Any form of disclosure, duplication, distribution, and modification of this document or use and communication of its content is not permitted unless written permission is granted by Evonity. All rights, including those arising from patents or the registration of a utility model or design, are reserved. The English version of this manual constitutes the original source document. Manuals in other languages are translations of this source document. PRO DUO S E is a trademark of Evonity B.V. Unauthorized use of the trademark is therefore unlawful.

1.6 Service

Maintenance work for the PRO DUO S E charging stations is carried out by your local charging station supplier. The charging station supplier is available to assist you. Always have the serial number of the charging station on hand when contacting the charging station supplier, as this helps expedite support. Alternatively, you can seek support for all our products at www.evonity.com.

1.7 EU Declaration of Conformity

The PRO DUO S E complies with the following directives:

- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- Harmonized standards: IEC 61851-1 ed. 3 (2017) - Electric vehicle conductive charging system - General requirements, implemented at the national level under:

AT: ÖVE/EN 61851-1

BE: NBN EN 61851-1

DE: DIN-EN 61851-1

FIN: SFS-EN 61851-1

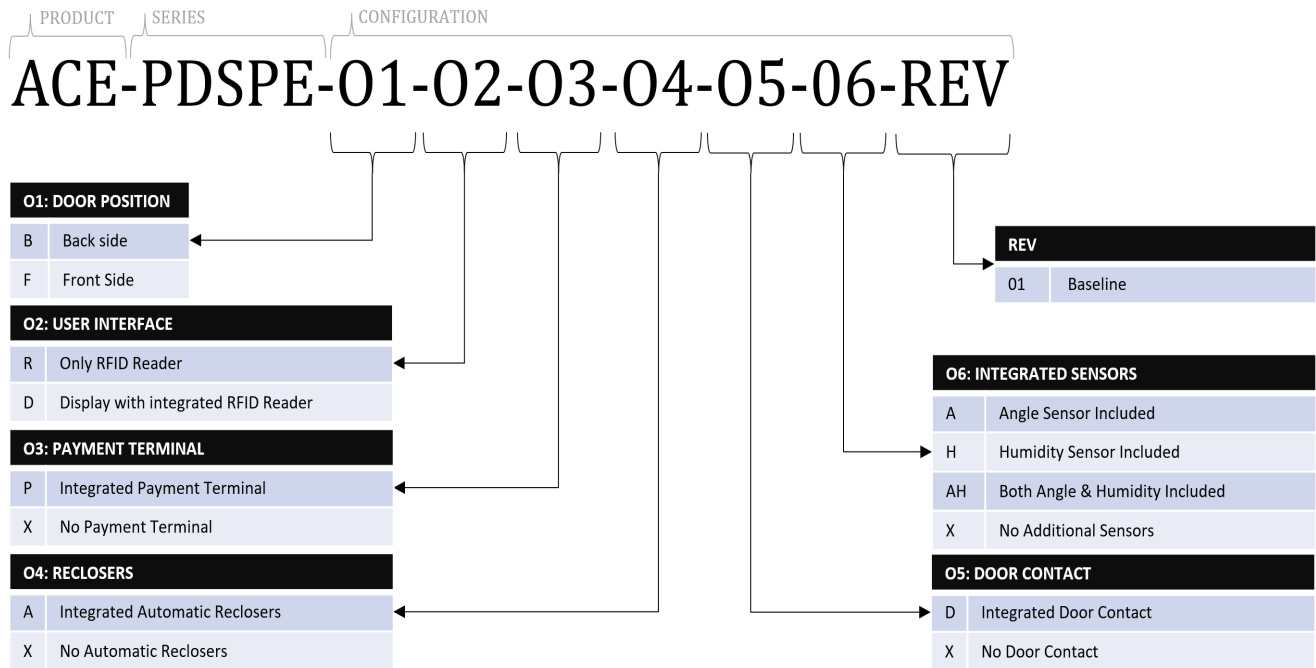
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NL: NEN-EN-IEC 61851-1

NO: NEK-EN-61851-1

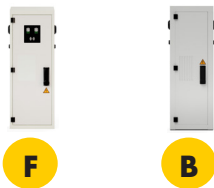
UK: BS-EN 61851-1

2.1 PRODUCT CODE DESCRIPTION



2.2 EXPLANATION OF DIFFERENT OPTIONS

O1: DOOR POSITION



Indicates the location of the access door to the interior of the charger

O2: USER INTERFACE



Indicates whether the charger is equipped only with an RFID Reader or with a Display + RFID Reader.

A display is only possible if the door is located at the front (option O1 = F).

O3: PAYMENT TERMINAL



Indicates whether a payment terminal is integrated into the charger.

O4: RECLOSER



Indicates whether the charger is equipped with automatic reclosers. With this option, it becomes possible to remotely reset the integrated type B differentials (via OCPP), so that in case of an issue, a local intervention by a technician is not necessarily required.

O5: DOOR CONTACT



Indicates that the charger has a door contact used to detect the status of the access door. This allows charging to be blocked and the status to be communicated to the backend.

O6: INTEGRATED SENSORS



Indicates which additional sensors are present in the charger. With the Angle/Tilt sensor, it is possible to detect via the backend if the pole is tilted (e.g., due to a collision/accident).

The Humidity sensor measures the internal humidity, allowing for additional diagnostics and lifespan optimizations.

2.3 EXAMPLE CONFIGURATION 1

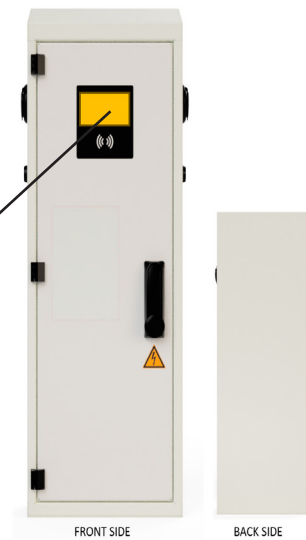
PRODUCT	SERIES	CONFIGURATION
ACE-PDSPE-	F-D-	X-A-D-AH-01
		01 DOOR POSITION
		02 USER INTERFACE
		03 PAYMENT TERMINAL
		04 RECLOSERS
		05 DOOR CONTACT
		06 INTEGRATED SENSORS
		REVISION REV



2.4 EXAMPLE CONFIGURATION 2

PRODUCT	SERIES	CONFIGURATION
ACE-PDSPE-	F-R-	X-A-D-AH-01
		01 DOOR POSITION
		02 USER INTERFACE
		03 PAYMENT TERMINAL
		04 RECLOSERS
		05 DOOR CONTACT
		06 INTEGRATED SENSORS
		REVISION REV

If O2 = R, there will be no display, and this space can be used for an instruction sticker.



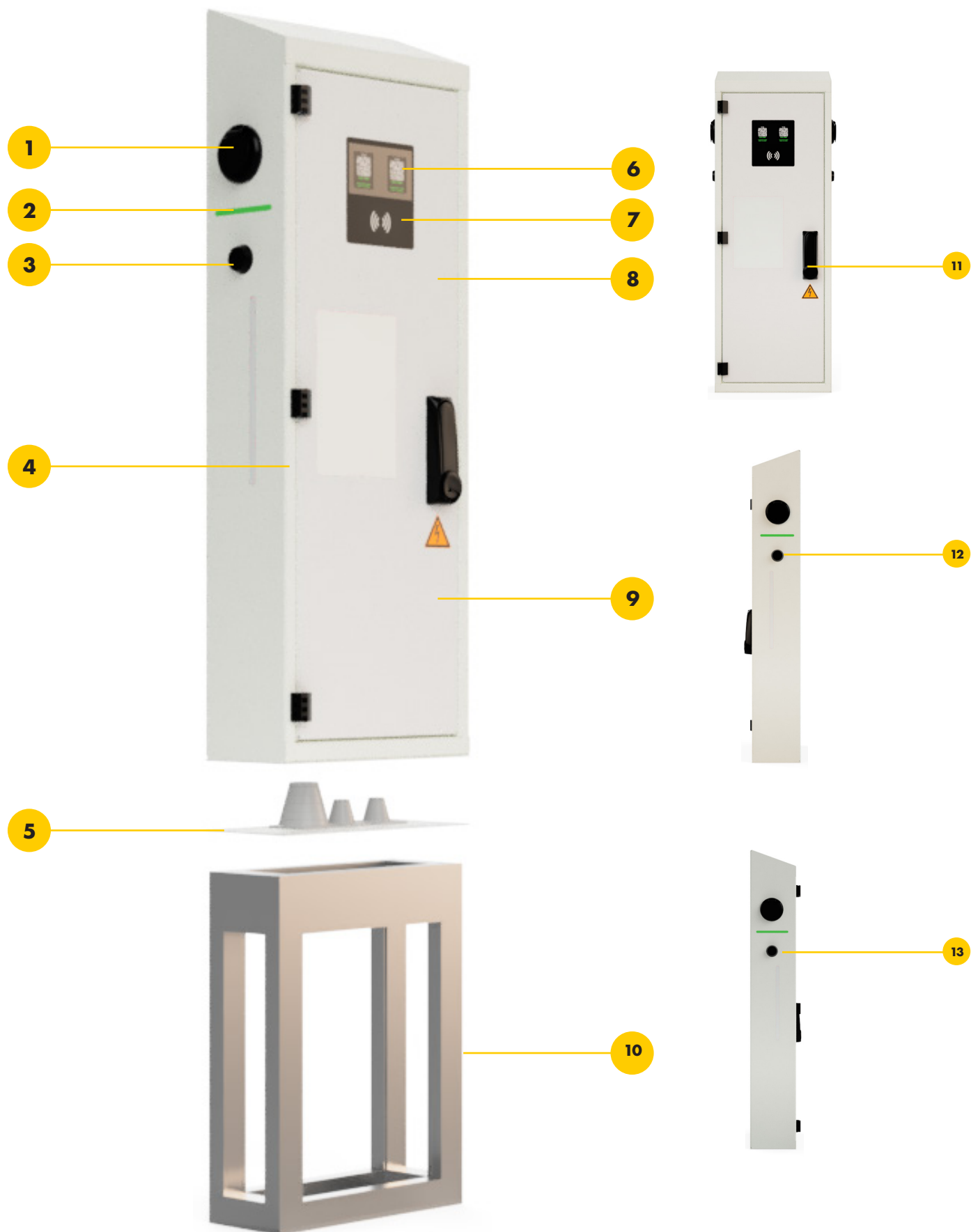
2.5 EXAMPLE CONFIGURATION 3

PRODUCT	SERIES	CONFIGURATION
ACE-PDSPE-	B-R-	X-A-D-AH-01
		01 DOOR POSITION
		02 USER INTERFACE
		03 PAYMENT TERMINAL
		04 RECLOSERS
		05 DOOR CONTACT
		06 INTEGRATED SENSORS
		REVISION REV

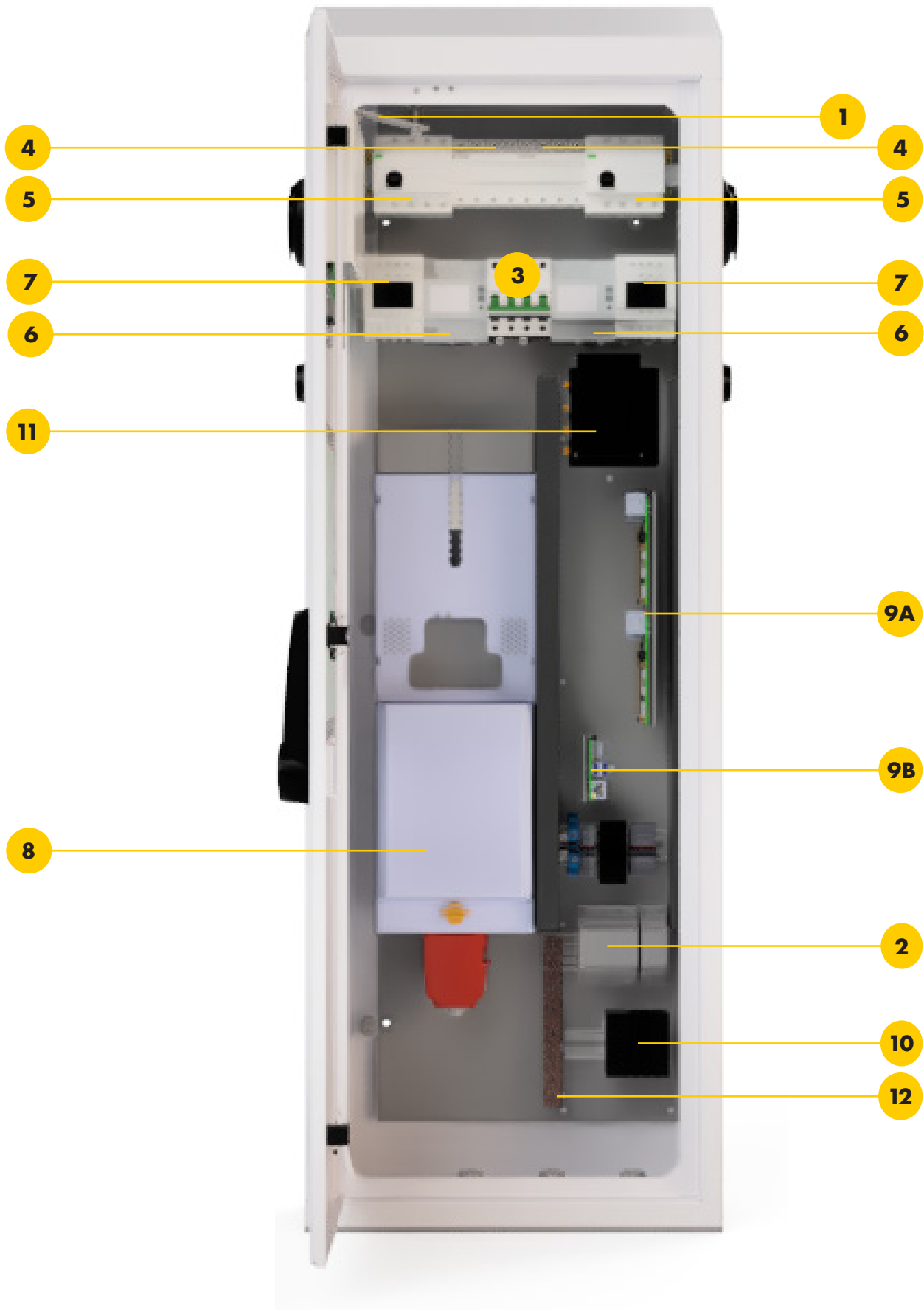
If O1 = B, the screen option (O2) is not possible.



Variant: door position front side 3.1 Exterior



3.2 Interior



3.3 Product legend

Exterior

1	Type 2 Socket
2	Status LED
3	Antenna
4	Aluminum body
5	Base plate
6	Display ¹
7	RFID reader
8	Logo
9	Body color customizable
10	Foundation (metal or concrete)
11	Double key lock-mechanism with 3-point lock
12	Wi-Fi Antenna
13	4G Antenna

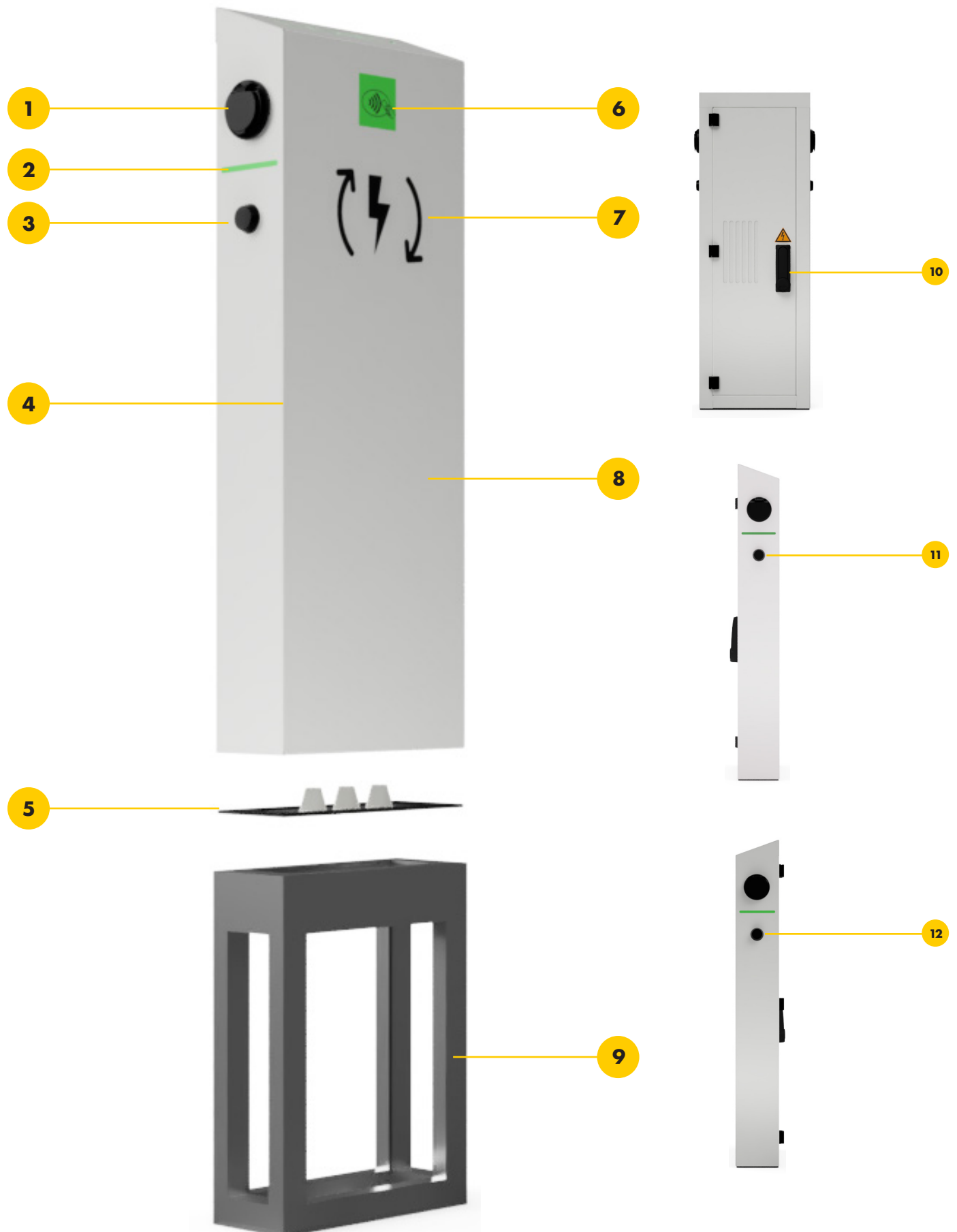
Interior

1	Door stay
2	Power supply
3	Main switch
4	Fuse holders
5	RCCB
6	MID meters
7	Power contactor
8	Reserved for utility owner
9A	Controllers
9B	Controllers
10	Heater
11	4G modem / ETH Switch
12	Ground bar

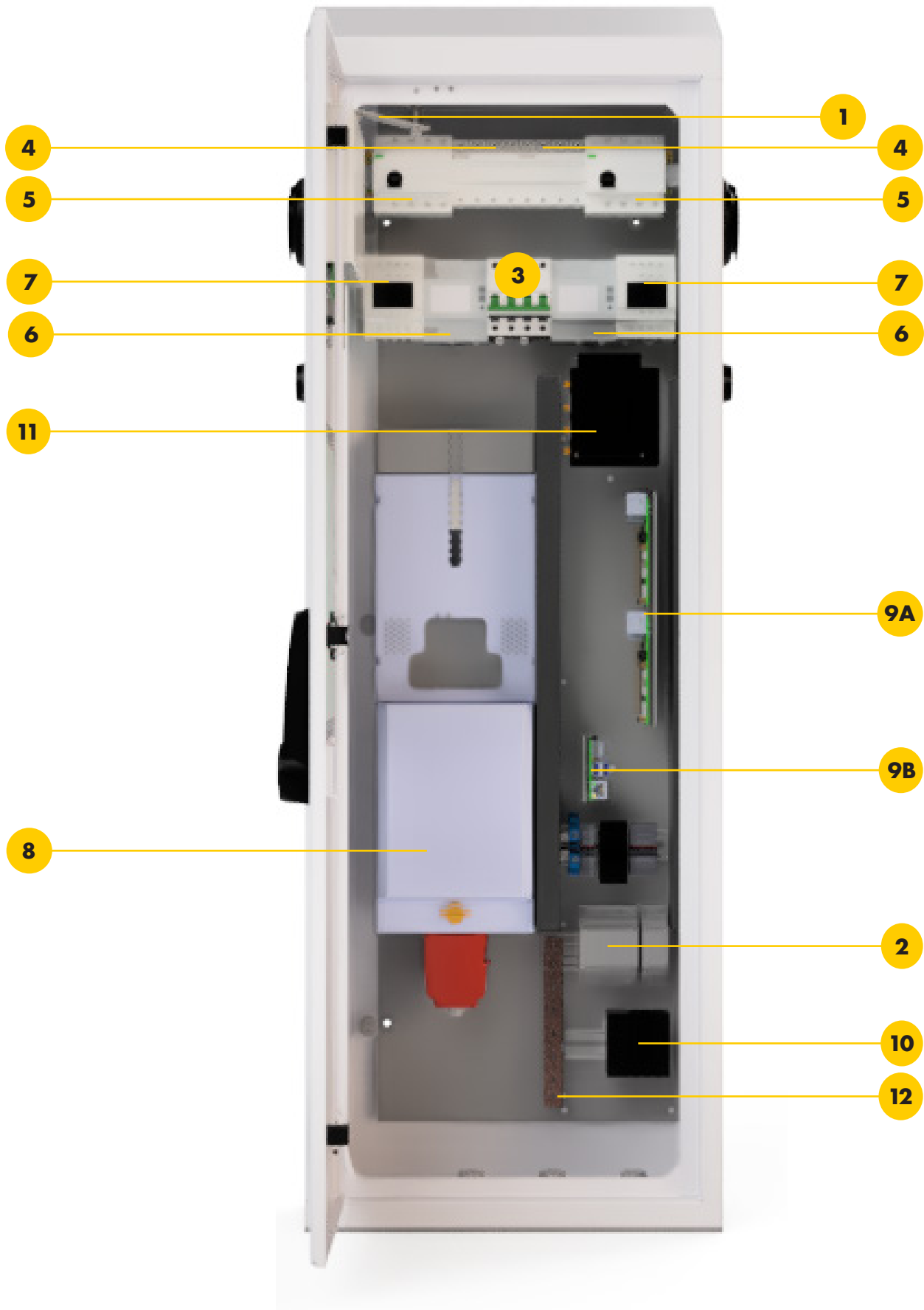
¹ Display present if option O2 = D. If option O2 = R, the location of the display can be provided with a sticker with brief usage instructions.

Variant: door position rear side

3.4 Exterior



3.5 Interior



3.6 Product legend

Exterior

1	Type 2 Socket
2	Status LED
3	Antenna
4	Aluminum body
5	Base plate
6	RFID reader
7	Logo
8	Body Color Customizable
9	Foundation (metal or concrete)
10	Double key lock-mechanism with 3-point lock
11	Wi-Fi Antenna
12	4G Antenna

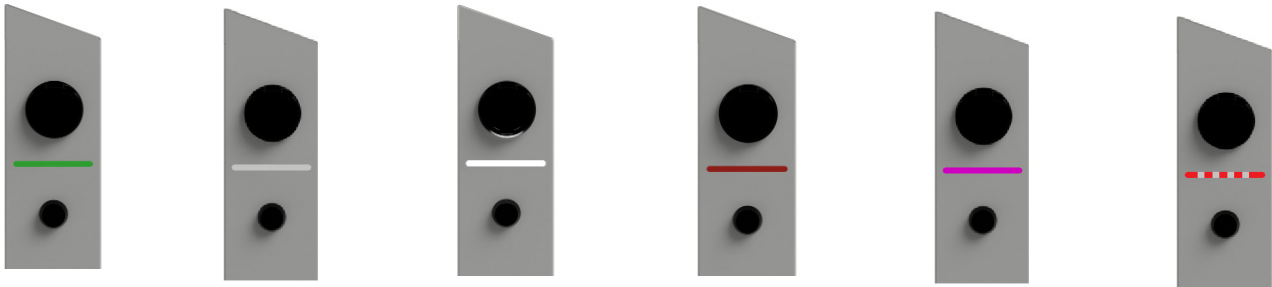
Interior

1	Door stay
2	Power supply
3	Main switch
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5	RCCB
6	MID meters
7	Power contactor
8	Reserved for utility owner
9A	Controllers
9B	Controllers
10	Heater
11	4G modem / ETH Switch
12	Ground bar

3.7 Weight and dimension

Item	Dimensions +- (mm)	Weight +- (kg)
PRO DUO S E	1365 x 452 x 197	30.5

3.8 LED indications

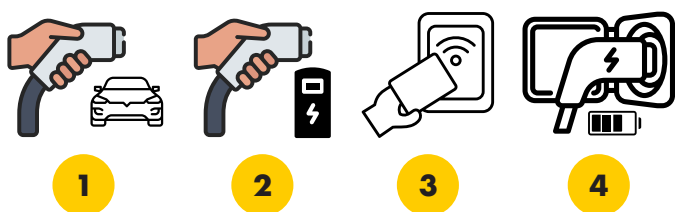


- Auth Pending
- Auth Accepted
- EV present
- OFF Ready to charge
- Updating
- Power on Charger
- Charger not ready
- Connected disabled
- Reserved (OCPP)
- Auth Rejected (blink)

By default; during production these settings can be adjusted based on client configuration.

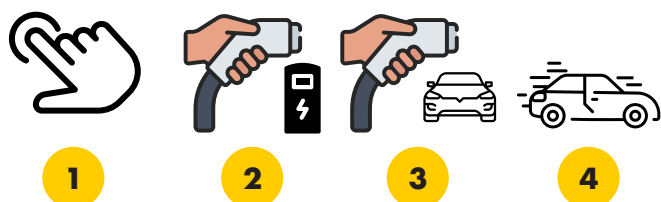
3.9 Operation

Activating the Charging Process with the Charging Card.



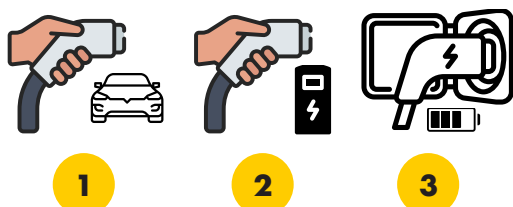
- 1 Insert the charging cable into the vehicle.
- 2 Connect the charging cable to the charging station.
- 3 Scan the charging card on the RFID reader of the charging station.
- 4 Charging is now active.

Deactivating the Charging Process from the vehicle.



- 1 Deactivate the charging process from the vehicle.
- 2 Disconnect the charging cable from the charging station.
- 3 Disconnect the charging cable from the vehicle.
- 4 Leave the charging location.

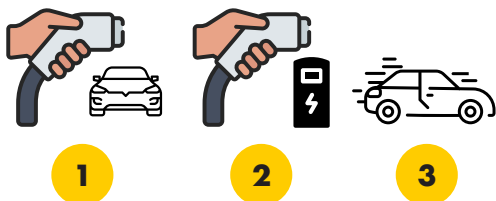
Activating the Charging Process with Plug & Charge:



- 1 Insert the charging cable into the vehicle.
- 2 Connect the charging cable to the charging station.
- 3 Charging is now active.

* PnC functionality is highly dependent on backend and vehicle compatibility.

Deactivating the Charging Process with Plug & Charge:

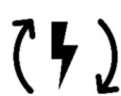


- 1 Remove the charging cable from the vehicle.
- 2 Disconnect the charging cable from the charging station.
- 3 Leave the charging location.

3.10 Operating Conditions

Operating Temperature	-25 °C to 50 °C
Relative Humidity	5% to 95%
Protection Class	I
Degree of Protection (Housing)	IP54
IK Protection	IK10

3.11 Identification Label



EVONITY
ELEGANT POWER



Manufacturer:	EVONITY
Type:	PDSPE
Product Code:	ACE - PDSPE - F - D - X - A - D - AH
Identification No:	PDSPE241104001
Degree of protection:	IP 54
Rated current In:	63 A
Rated voltage:	3x400 VAC + N + PE
Rated frequency:	50 Hz
Rated peak withstand current Icc:	15 kA
Relevant Assembly standard:	IEC 61439 - 7
Year of manufacture:	2024
Country of manufacture:	Belgium
Assembly type:	ACSEV

4.1 Safety Notifications

DANGER

Incorrect installation of the charging station can result in severe injury. Failure to adhere to specific electrical work regulations can lead to hazardous and life-threatening conditions.

WARNING

The installation and wiring should be designed based on the maximum charging current that the charging station can receive, taking into account continuous load.

DANGER

Before performing installation and maintenance work, the electrical system must be completely disconnected from all power sources.

WARNING

Evonity products installed in public areas and parking lots should be protected against mechanical impact and/or collisions to prevent damage to the equipment.

DANGER

After disconnecting the power supply, there may still be electrical charges present in the electrical components of the charging station. Wait for at least 10 seconds before commencing any work.

WARNING

The use of adapters or conversion adapters is not allowed.

DANGER

Never place the charging station in an environment with a potentially explosive atmosphere.

CAUTION

The installation, commissioning, and maintenance of the charging station should only be performed by a qualified technician.

DANGER

Never install the charging station in flood-prone areas unless additional precautions have been taken.

WARNING

Do not perform these tasks during rainy weather or when the humidity is above 95%.

WARNING

Installation requirements may be influenced by specific conditions at the location. Ensure that your installation complies with the applicable standards and regulations in the respective country.

WARNING

The installer retains the responsibility for determining the correct cable diameter and complying with the applicable standards and regulations.

4.2 Electrical Connection

When selecting a suitable location for the installation of the charging station, consider the following aspects:

- Ensure full compliance with local technical standards and safety regulations.
- The location should have an access point that matches the specifications of the charging station.
- The installation site should have a level and sturdy base; if the charging station is placed in the ground, preparing a stable foundation is part of the installation work.
- The location should not experience temperature fluctuations greater than 35°C within a 24-hour period.

Standard input voltage: (+/- 10%)

- L1-L2: 400 V
- L1-L3: 400 V
- L2-L3: 400 V
- L1-N: 230 V
- L2-N: 230 V
- L3-N: 230 V
- PE-N: approximately 0 V

Standard frequency: 50 Hz

Grounding Type:

- TN System: PE Cable.
- TT System: with a separate earth electrode installed;
 - Ensure the earth resistance is below 167 Ohms according to NEN 1010.
 - Ensure compliance with the legal regulations applicable in your country.

In our ongoing commitment to ensuring optimal safety and efficiency within our systems, we maintain a policy focused on preventing overload and maximizing system performance. We always implement software-based current limitations as a standard practice. This approach ensures that the load never exceeds the capacity of the network connection, guaranteeing safe and efficient system operation at all times.

We differentiate the following scenarios:

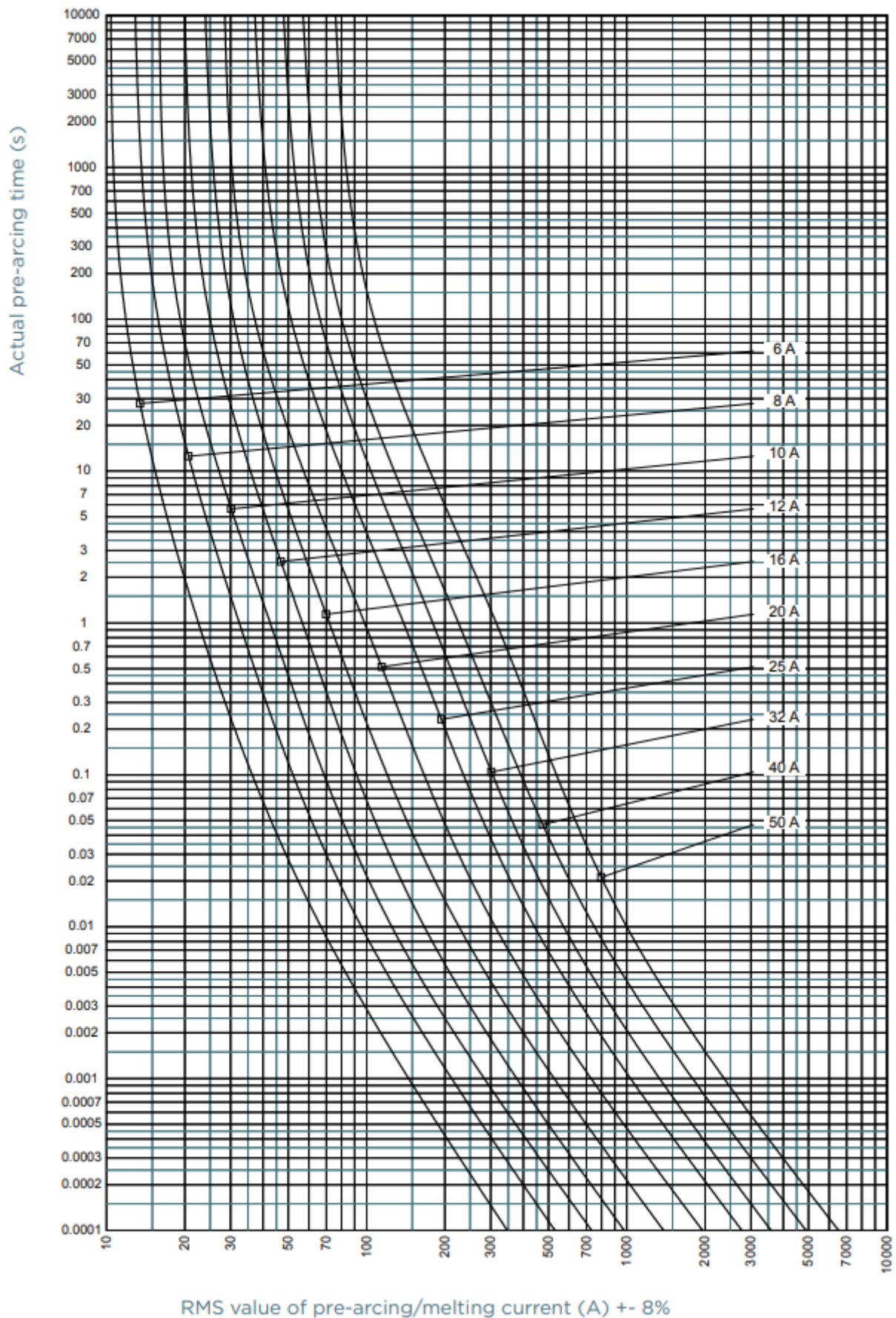
- A 3x25A grid connection with a C 25A circuit breaker:
Use 10A gG fuses for each socket on each phase.
- A 3x25A grid connection with 10x38 fuses:
Use 16A gG fuses for each socket on each phase.
- A 3x25A grid connection with NH000 fuses:
Use 16A gG fuses for each socket on each phase.
- A 3x35A grid connection with NH000 fuses:
Use 20A gG fuses for each socket on each phase.
- A 3x50A grid connection with NH000 fuses:
Use 32A gG fuses for each socket on each phase.
- A 3x63A grid connection with NH000 fuses:
Use 32A gG fuses for each socket on each phase.

The size of these fuses is 10x38.

4.3 Technical properties

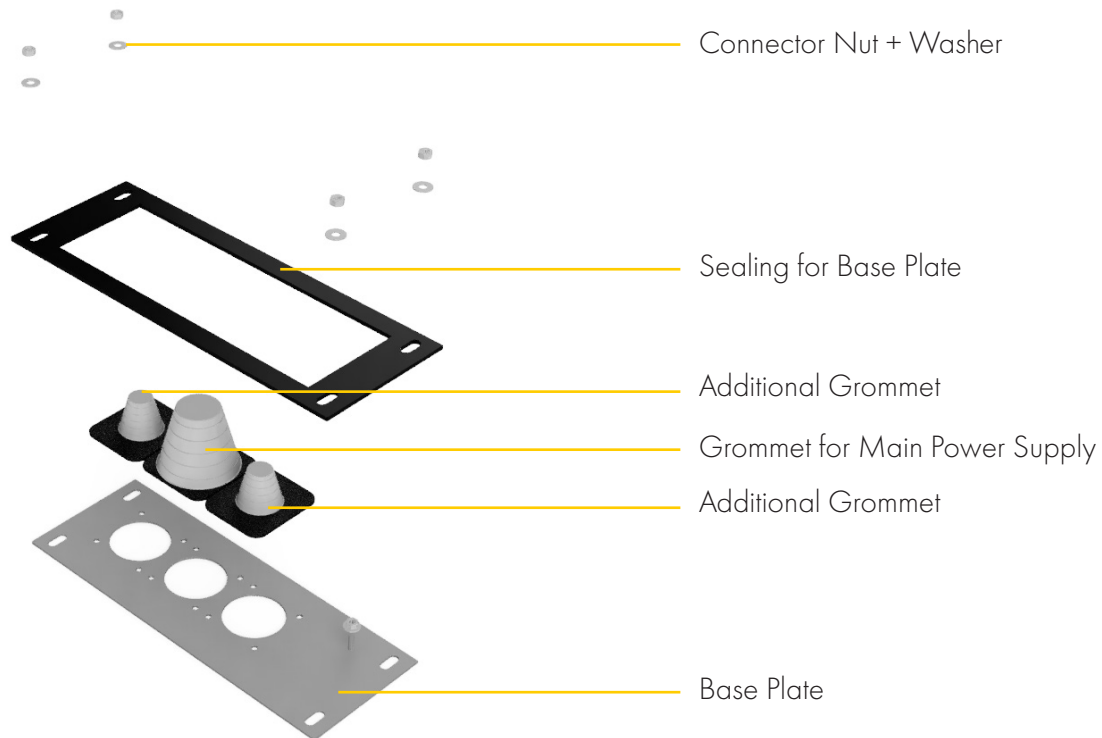
Nominal Voltage U_e :		3x400VAC+N+PE 230VAC+N+PE
Insulation voltage U_i :		500V
Impulse voltage U_{imp} :		4kV
Nominal Current of Charging Station I_n A:		63A
Nominal Current per Socket I_{nc} :		10A 16A 20A 25A 32A
Nominal peak limit current I_{pk} :		15 kA
Maximum short-time current I_{cw} :		3 kA - 1 s
Conditional short-circuit I_{cc} :		15 kA
Frequency f_n :		50Hz
Simultaneity factor RDF:	grid 3x25A - 10A per socket:	1,25
	grid 3x25A - 16A per socket:	0,78
	grid 3x25A - 20A per socket:	0,63
	grid 3x35A - 20A per socket:	0,88
	grid 3x35A - 25A per socket:	0,7
	grid 3x50A - 32A per socket:	0,78
	grid 3x63A - 32A per socket:	1

gG fuses 10x38 – Time Current characteristic curves



4.4 Preparation for Installation

- Inspect the location and determine the suitable position for placing the installation.
- Carefully check the contents of the delivery and ensure that all necessary components are present.
- Take the time to thoroughly read this installation manual before you begin the installation.
- Retrieve the datasheet from www.evonity.com to obtain specific product information.



4.5 What is Included

- The Charging Station
- An installation manual and mounting hardware.
- Charging cards (if applicable to the selected options).
- The password for the charging point.

4.6 Accessoires

Item	Dimensions (mm)	Weight (kg)
Concrete Foundation	650 x 460 x 225	30
Metal base	618 x 451 x 198	10

4.7 Installation Conditions

Check the delivered components regarding the locks.

The charging station has a door handle with 2 locks:

- the left lock is intended for the owner of the charging station.
- the right lock is for the network operator.

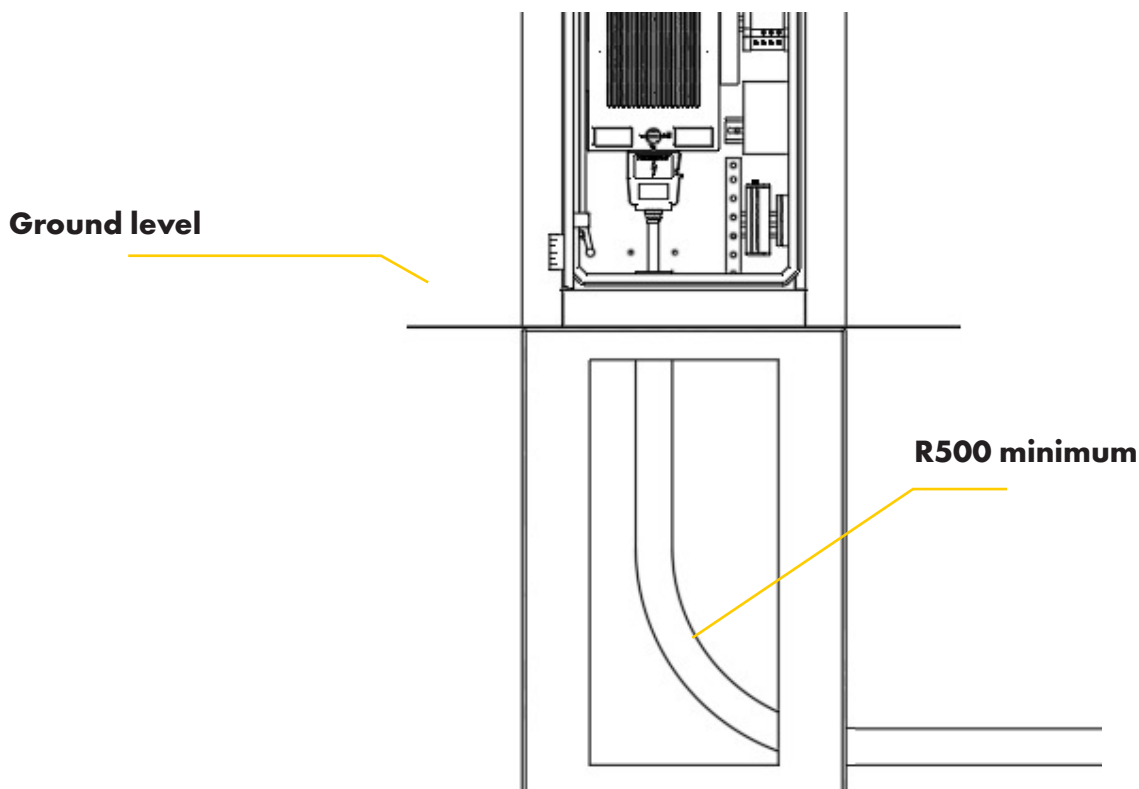
1. Remove the lock protection: the charging station may be equipped with 1, 2, or no cylinder lock(s).
2. Unlock the lock with the provided key(s) (or the provided master key if no cylinders are installed).
3. Remove the handle.
4. Turn the handle counterclockwise to open the door.



4.8 Mechanical Installation Procedure

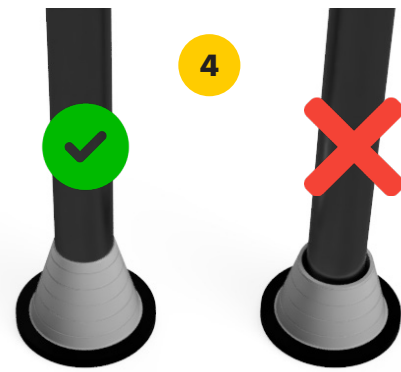
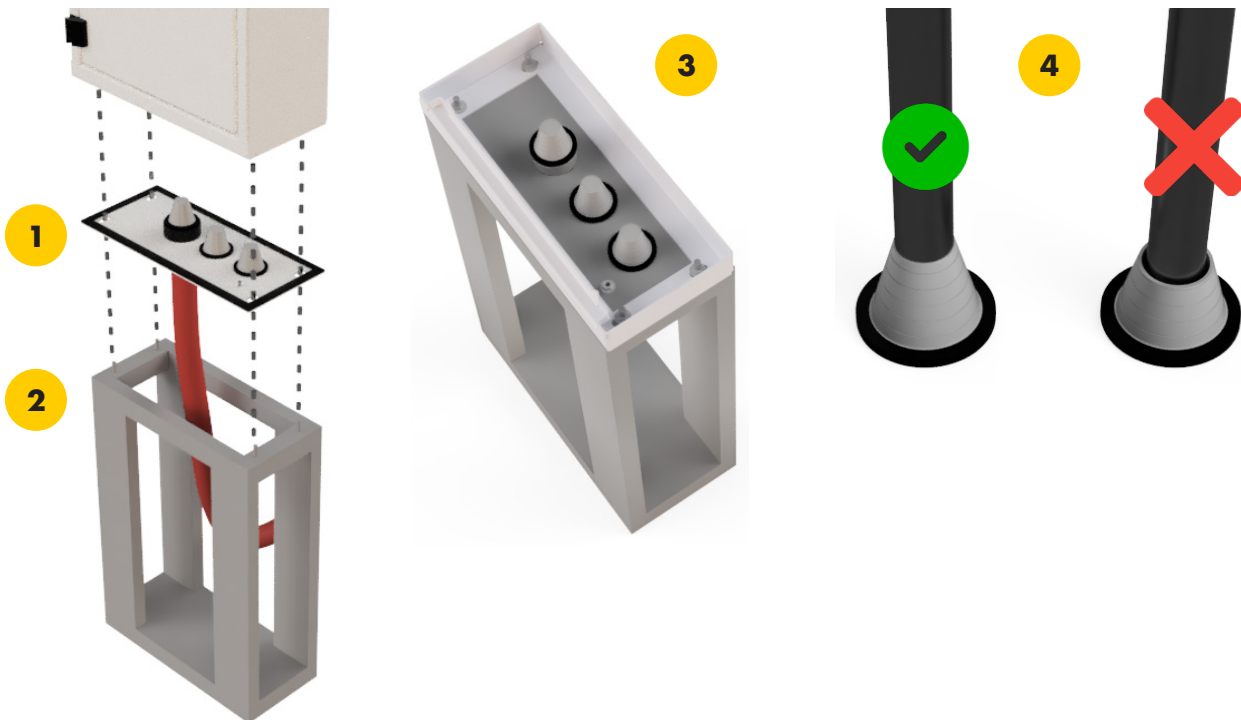
Concrete Foundation for Ground Placement

1. Dig a hole approximately 60x30 cm with a depth of 63 cm and make the bottom level.
2. Position the concrete foundation and ensure that it is level (the concrete foundation may be level with the ground or protrude up to 2cm above the ground).
3. Follow local regulations and use an earth electrode or ground rod as required.



4. ASSEMBLY AND CONNECTION

Mount the charging station on the concrete foundation.

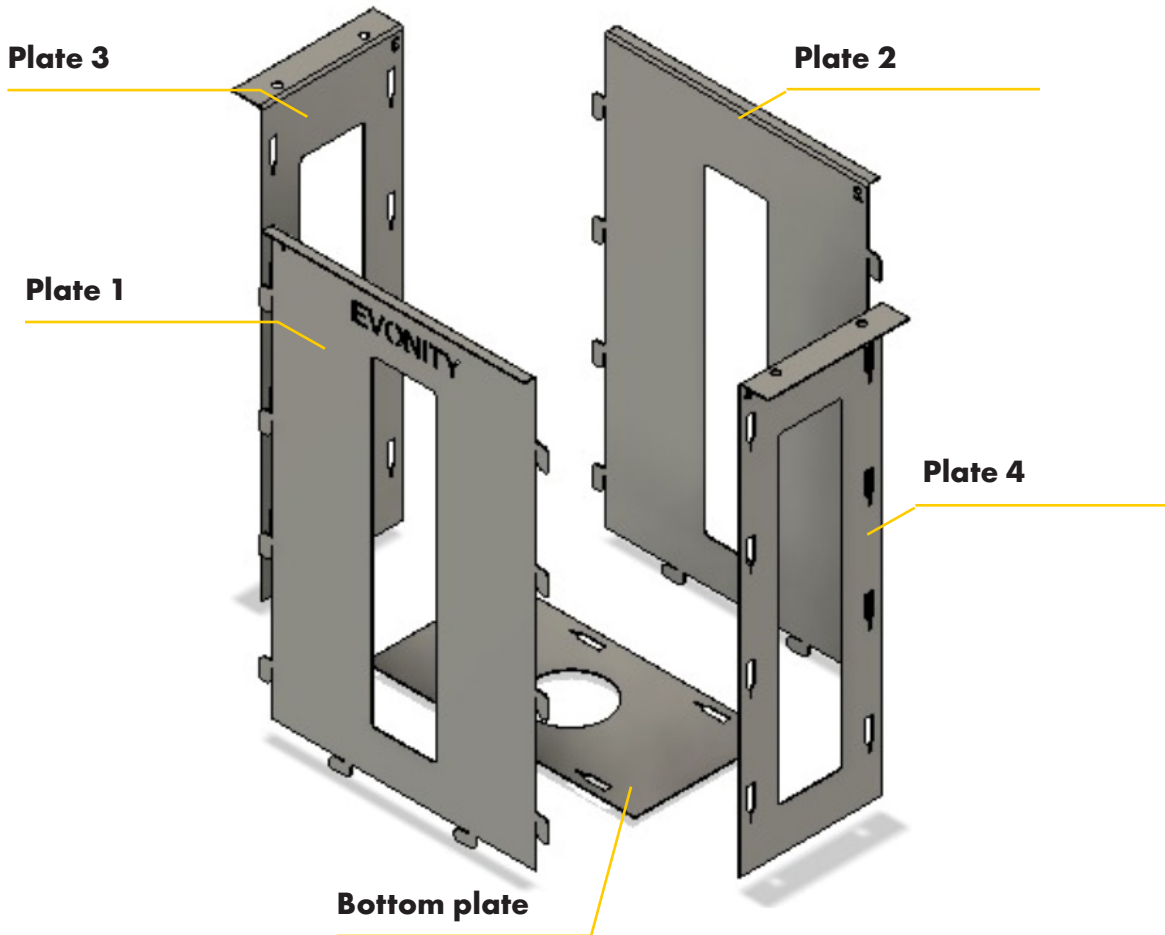


1. Position the red pipe so that it fits precisely into the elevated cable gland, ensuring it extends 2 cm above the concrete base. Next, align the holes of the base plate seal with the corresponding holes on the concrete base, making sure the sealing side of the plate faces upwards
2. Place the charging station on the base plate, aligning the mounting holes with the threaded rods.
3. Secure the charging station to the mounting base as shown in the image, using the four provided M8 nuts, washers, and V-rings. Torque to be used 15Nm.
4. Cut the cable gland to match the diameter of the power cable.
5. Feed the power cable through the door opening and into the cut gland.
6. Once approximately 250 mm of cable remains, pull it slightly back to ensure the gland firmly grips the power cable for a secure fit.

4. ASSEMBLY AND CONNECTION

Pre-Assembling Metal base

To assemble the metal base, slide the numbered plates together in sequence, leaving the bottom plate (unnumbered) for last. Begin by sliding plate 1 into plate 3. Next, insert plate 2 into plate 3, ensuring alignment, and then slide plate 4 onto plates 1 and 2. Finally, complete the assembly by sliding the bottom plate into place.

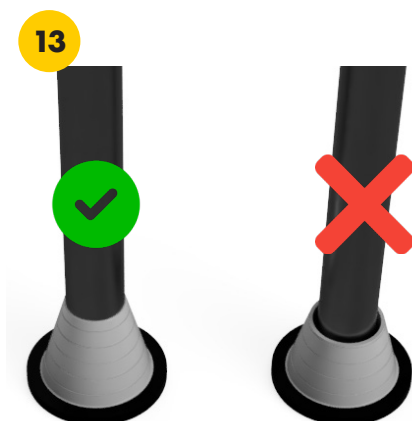
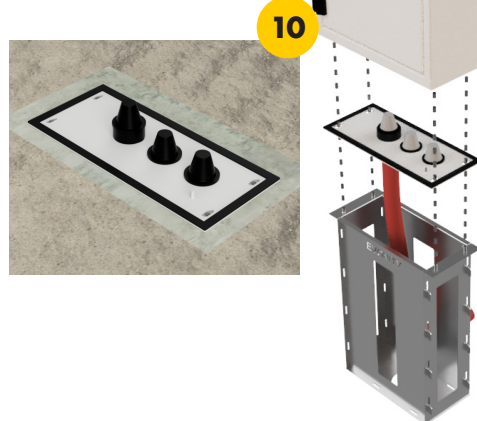
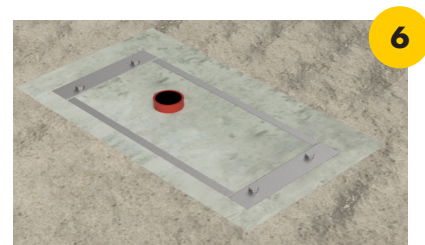
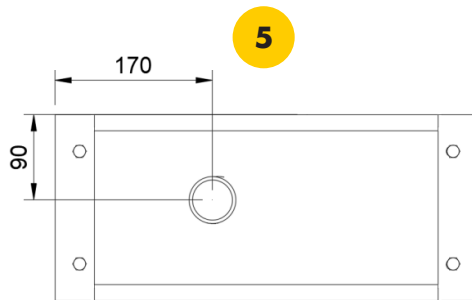
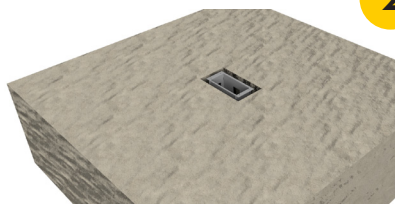
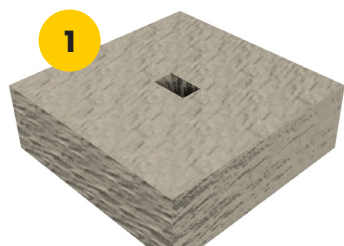


Tip: For easier installation, assemble the foundation with the plates positioned upside down.

Metal base for Ground Placement

1. Excavate the ground to the required depth for the installation of the base, approximately 60 x 30 cm with a depth of 63 cm. Ensure the bottom is level.
2. Position the pre-assembled metal base securely in the excavated hole. Check that it is level.
3. Tighten the bolts to prevent any dirt or concrete from entering the threads.
4. Pour turbo concrete around and inside the metal base, filling up to just above the Evonity logo (approximately 10 cm below the top of the base). Follow the concrete packaging instructions.
5. Position the red pipe so that it fits approximately according to the given dimensions.
6. Fill the metal base with additional sand or concrete to match the ground level.
7. Clean any residue from the top of the metal base thoroughly with water.
8. Allow the concrete to dry and harden completely.
9. Loosen the bolts to prepare for the installation of the charger.
10. Position the bottom plate securely on the metal base. Ensuring the red pipe fits into the bottom plate and extends no more than 2 cm above the ground level.
11. Place the charging station onto the mounting base, aligning the mounting holes.
12. Secure the charging station to the mounting base using the four provided M8x25 bolts and contact washers. Tighten the bolts to 12 Nm torque.
13. Cut the cable gland to match the diameter of the power cable.
14. Feed the power cable through the door opening and into the cut gland.
15. Once approximately 250 mm of cable remains, pull it slightly back to ensure the gland firmly grips the power cable for a secure fit.

4. ASSEMBLY AND CONNECTION



4.9 Electrical installation procedure

This charging station, specifically designed for public use, aligns with the 'Connection Specifications for Charging Objects v3.0,' available on the eLaadNL website.

- Only authorized personnel, acting on behalf of the network operator, are allowed to install the power cable, assemble the connection box, and place the meter in the charging station.
- Connecting must strictly adhere to the regulations and instructions provided by the relevant network operator.

Characteristics of the Incoming Power Cable:

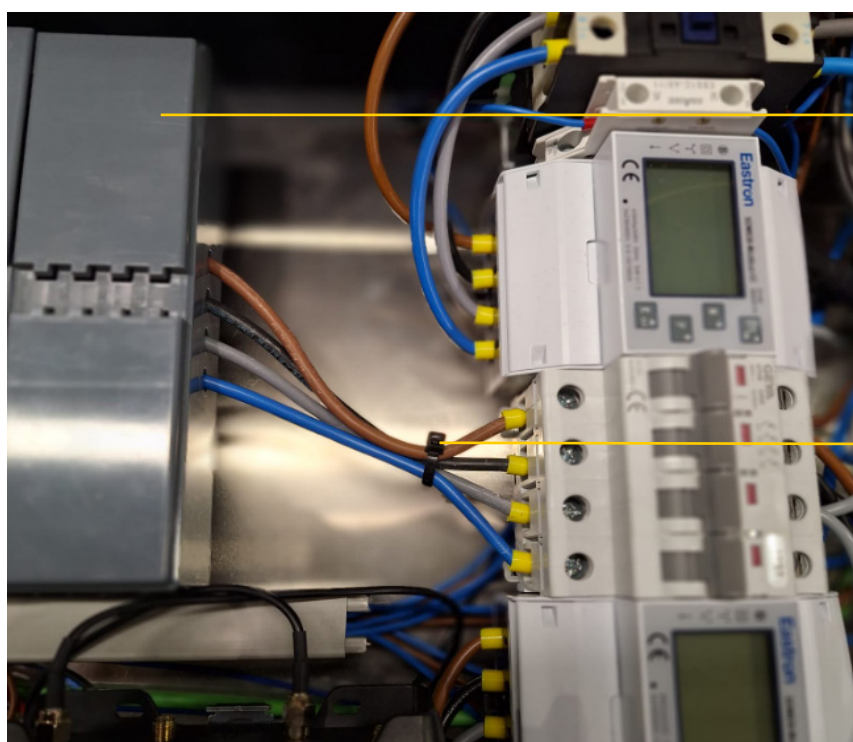
- The charging station can provide up to 22kW of power.
- The phase wires coming from the utility meter must be connected to the bottom of the load switch.
- Ensure that you maintain the correct order for the connections (L1/brown, L2/black, L3/grey, N/blue). Torque to be used 2,5Nm.
- The earth electrode and any other possible grounding connections can be attached to the PE bar on the bottom right.

Attach the grounding wire of the connection cable to the primary grounding bar (HAR), where a designated bolt is available for this purpose. Additionally, link the grounding wire for the cable gland plate, already connected to the main grounding bar (HAR), to the earthing strut on the cable gland plate. Torque to be used 2Nm.

Note:

- After correctly connecting the wires from the PLO metering module, the cable tie must be fastened properly so that all wires are securely bundled. Refer to the image below for the correct fastening method.

Attention: the cable tie must not weigh more than 4 grams.



PLO-metering module connectens

Cable tie

4. ASSEMBLY AND CONNECTION

Protection requirement in accordance with IEC 61439-1:

Correct securing of the cable tie is mandatory to meet the constructional protection against electric shock as described in IEC 61439-1, clause 8.4.

This securing prevents conductors from moving or shifting, thereby eliminating the risk of contact with metal or other conductive parts inside the enclosure.

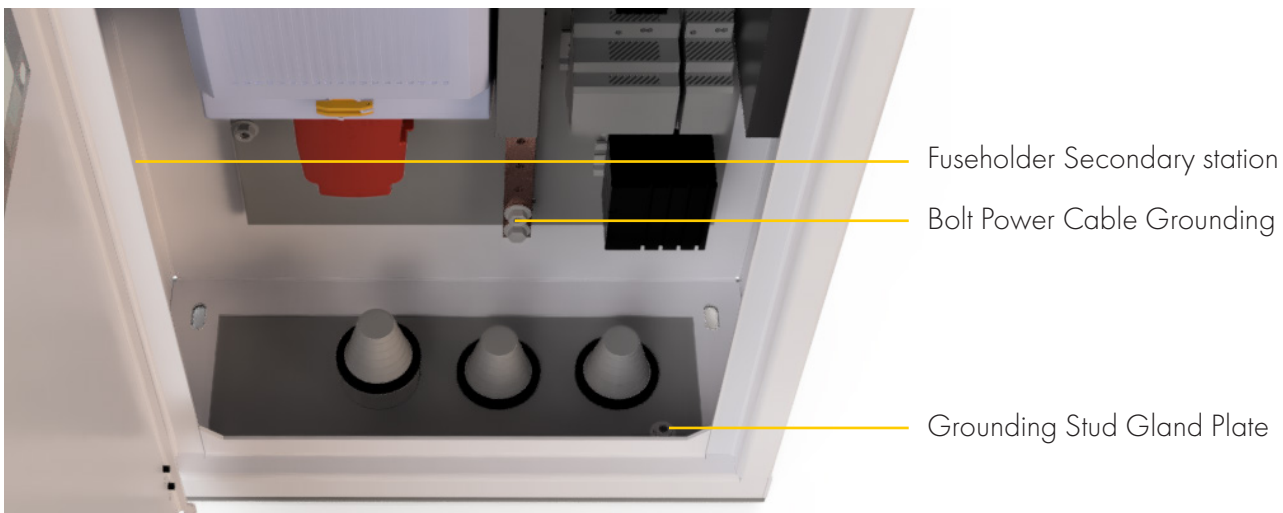
This is essential to ensure electrical safety and to avoid unintended fault currents or touch hazards.

In addition, the applied PLO metering module must comply with the constructional protection requirements defined in this standard.

Failure to follow this instruction may lead to a loss of the degree of protection and jeopardize the installation's compliance.

Earth Connections:

Attach the grounding wire of the connection cable to the primary grounding bar (HAR), where a designated bolt is available for this purpose. Additionally, link the grounding wire for the cable gland plate, already connected to the main grounding bar (HAR), to the earthing strut on the cable gland plate. Torque to be used 2Nm.



For a primary-secondary setup:

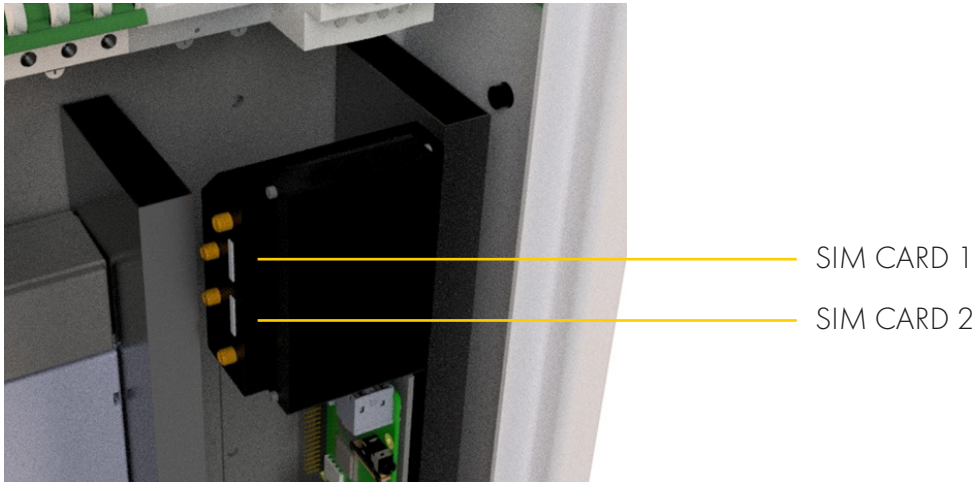
Connect the phase wires from the secondary station to the fuse holder, located at the bottom left of the primary station. Ensure the correct sequence for the connections: N (blue), L1 (brown), L2 (black), L3 (grey). Torque to be used 2,5Nm.

For the secondary station fuse holder, follow these guidelines based on the grid connection type:

- 3x25A grid connection with a C 25A circuit breaker: Use 10A gG fuses for secondary station, each phase.
- 3x25A grid connection with 10x38 fuses: Use 16A gG fuses for secondary station, each phase.
- 3x25A grid connection with NH000 fuses: Use 16A gG fuses for secondary station, each phase.
- 3x35A grid connection with NH000 fuses: Use 20A gG fuses for secondary station, each phase.
- 3x50A grid connection with NH000 fuses: Use 32A gG fuses for secondary station, each phase.
- 3x63A grid connection with NH000 fuses: Use 40A gG fuses for secondary station, each phase.

The size of these fuses is 14x51.

4.10 4G Modem



Inserting SIM Card 1 into the 4G modem.

1. Identify the SIM card slot labeled SIM 1 on the device.
2. Gently press the SIM holder using your finger or a small tool until it clicks and slightly pops out.
3. Take your SIM card and place it into the holder with the metal contacts facing down and the cut corner aligned with the holder.
4. Carefully push the SIM holder back into the slot until it clicks into place.

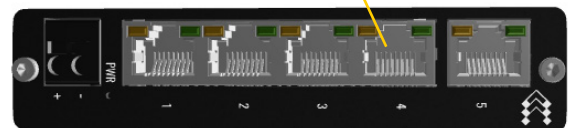
Removing SIM Card 1 from the 4G modem.

1. Gently press the SIM holder to release it. It will pop out slightly.
2. Pull the SIM holder out, and remove the SIM card from the holder.
3. Slide the SIM holder back into the slot and ensure it clicks securely in place.

RJ45 cable for primary-secondary construction.

1. Identify LAN port 4 on the switch within the primary station,
2. connect the RJ45 cable designated for the secondary station.
3. Identify the WAN port on the 4G modem within the secondary station.
4. Connect the external RJ45 cable from the primary station to the WAN port on the 4G modem in the secondary station.

LAN port 4



WAN port



5.1 Pre-Initial Use Inspections

The operation of this charging station must be carried out following the test instructions described below. All instructions listed below are considered mandatory and must be performed by the charging station installer.

After transportation and installation, verify the following points:

Inspection	Execution
Screw Connections	Full testing of tightening torques at connection terminals and mechanical screw connections.
Replacing Electrical Equipment	When disconnecting wires from internal components during replacements (e.g., RCCB, load switch, etc.), avoid over-loosening the screws, as this can damage them, potentially requiring the replacement of the entire component.
Mechanical visual inspection	Mechanical perfect condition of all installed devices. After completing the work, ensure that the protection cover is in place and that the door is fully closed and locked.
Grounding System	Verify that the grounding takes into account the location-specific conditions and the applicable standards.
Lightning Arresters for Power Lines	Verify if the power line is equipped with a lightning arrester according to ISO 61439-2/-7 and country-specific standards.
Selectivity	It is necessary to test selectivity, ensuring that only the device upstream of a fault activates the circuit breaker. This should be tested according to ISO 61439-2 and other country-specific standards.
Operating Conditions	Consider the operating conditions at the installation site (e.g., mechanical, chemical, corrosive loads) according to ISO 61439-2/-7 and any relevant country-specific standards.
Residual Current Protection Device (RCD)	Verify whether a ground fault circuit interrupter (GFCI) is required/installed outside the charger, in accordance with location-specific conditions and applicable standards.
Short-Circuit Resistance	Nominal current and short-circuit resistance of the main busbar system, taking into account the upstream protective device according to ISO 61439-2/-7.
Automatic Power Shutdown	Compliance with the requirements of IEC 60364-4-41, section 411, is necessary.
Inspection of spiral wraps and cable ties:	Verify that the spiral wraps and cable ties are still positioned at the prescribed locations. Refer to the service manual for the exact attachment points.

5.2 Access Evonity Interface

To access the Evonity interface of your charging station, you first need to connect to the charging station's network.

The default username and password are:

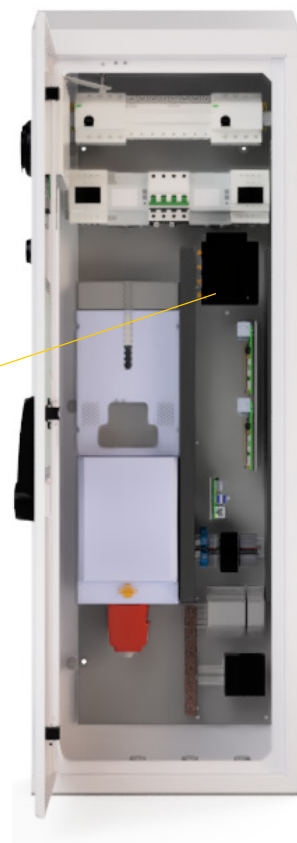
username: admin

password: admin

note: the default password can be different if the charger is configured during production for specific batches. In that case please contact us for more information.

Connect your device to the charging station's network, depending on the configuration this can be done by WiFi or with a network cable connected to the device.

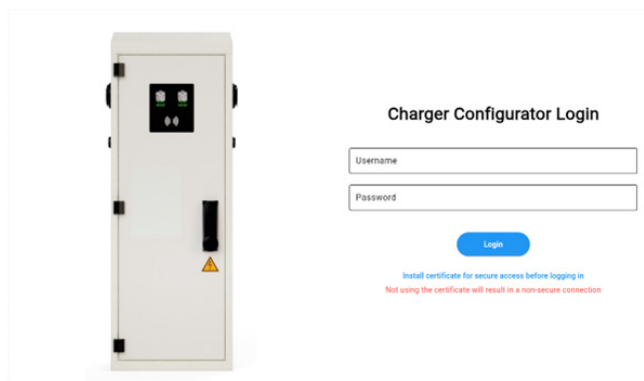
Once connected, you can access the interface by navigating to <https://hmi001:81> or <https://192.168.20.110:81>



5.3 Charging Station Configuration

Access to Configuration

- 1. Login:** Start by logging into the Evonity interface. Use 'operator' as the default username and password.
- 2. Navigation:** Once logged in, you will be redirected to the configuration pages, where the charger settings can be modified.
- 3. For more information and details about the configuration interface and features, refer to the dedicated document: "Usermanual software and functionality - AC E PDSPE SERIES - EN.pdf or ask for access to the customer support center which contains the latest version of documentation"**



CONTACT

Evonity BV
Vlinderstraat 20
B-3550 Heusden-Zolder
Belgium

✉ Info@evonity.com

🌐 www.evonity.com

📞 0800 820 54