

EV/BOX

Troniq Compact Modular



Installation Manual

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1. Introduction

This Installation manual outlines the installation requirements and steps for Troniq Compact Modular.

1.1 Scope of the manual

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

Caution:

This manual is intended as a resource for qualified personnel with experience in working on High Voltage projects who are capable of identifying the requirements and taking all necessary precautions to safely complete a Troniq Compact Modular installation.

1.1.1 Retention of manual

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.

All EVBox manuals can be downloaded from <https://partner-portal.evbox.com/>⁽¹⁾.

⁽¹⁾The EVBox Partner portal is accessible via your local EVBox certified partner.

1.1.2 Disclaimer

This product must be installed, used, repaired, and decommissioned in accordance with the manufacturer's instructions and local laws, regulations and standards. EVBox shall not be liable for any damage or injury resulting from misuse, improper installation, unauthorized modifications of the product, or any other actions in violation of the [manufacturer's] instructions and local laws, regulations and standards.

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1.2 Symbols used in this manual

Danger: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

Warning: Indicates a hazardous situation that, if not avoided, could result in death or serious injury

Caution: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Note: Indicates information considered important but not hazard related.

Prerequisite: Required condition to perform the task described.

1.3 Related documents

Document	Number	Location
EVBoxDecentralized Distributed Architecture Installation Manual	D003525AA2	https://partner-portal.evbox.com/ ⁽¹⁾
EVBox Troniq Compact Modular maintenance manual	/	https://partner-portal.evbox.com/ ⁽¹⁾
EVBox Troniq Compact Modular preventive maintenance plan	/	https://partner-portal.evbox.com/ ⁽¹⁾
EVBox DC products software user guide	D003497AA0	https://partner-portal.evbox.com/ ⁽¹⁾
EVBox Eichrecht Guide ⁽²⁾	/	EVBox Eichrecht Documentation
EVBox Product Type Guide	/	EVBox Product Type Guides
EVBox Payter apollo - Technical note	DXXXXXXXX (TBD)	https://partner-portal.evbox.com/ ⁽¹⁾

⁽¹⁾The EVBox Partner portal is accessible via your local EVBox certified partner.
⁽²⁾The EVBox Eichrecht Guide is only applicable for Germany and Austria.

Digital Reporting	
Web version	APP version
	
https://form.jotform.com/250893652779070	https://eu.jotform.com/app/250974556351362

1.4 Tools required

Caution:

Some operations described in this manual may require a ladder or a step ladder. Refer to your local regulation regarding the working height and relevant safety instructions.

Warning: Improper use of a step ladder can cause injury or death.

- Follow the manufacturer's instructions for the step ladder.

Below is the list of the tools required (not included) to install the EVBox Troniq Compact Modular:

- Ratchet, 1/2 in
- Drive wobble extension, 1/2 in
- Metric 6-point socket, 13 and 16 mm (1/2 in)
- Ratchet, 1/4 in
- Metric 6-point socket, 7 and 8 mm+ socket holder drive (1/4 in)
- PZ2 screwdriver
- Hex screw, 2mm
- Hex socket, 8mm
- Torque wrench (14, 35, 45 Nm), 1/2 in
- Technical marker for nut and bolt tightening
- Drill bit, 12mm
- Concrete drill bit, 12 mm
- 4x M12 ground anchors, stainless steel
- 4x M12 lifting rings to handle the charging station with a crane

1. Introduction

- Door key (type 455)
- Ladder or step ladder (maximum working height: 2.4m)
- For Payter, apollo option: PZ1 screwdriver, USB Type A to Micro B
- Ethernet cables RJ45 (to connect charging stations together, number and length depending on you configuration)
- Suitable lifting equipment to hoist the station, please refer to Chapter 5.2, Handling by crane, page 23.
- Temporary weather shelter
- Voltage tester
- Lockout devices (for LO-TO-TO procedure)
- Tags (for LO-TO-TO procedure)

1.5 Glossary

Abbreviation	Meaning
AC	Alternating Current
CAN (Bus)	Controller Area Network
DC	Direct Current
DDA	Decentralized Distributed Architecture
EMC	Electromagnetic Compatibility
EV	Electric Vehicle
EVCS	Electric Vehicle Charging Station
GSM	Global System for Mobile Communications
HMI	Human Machine Interface
IMD	Isolation Monitoring Device
LED	Light Emitting Diode
LO-TO-TO (procedure)	Lock Out, Tag Out, Try Out
MCB	Miniature Circuit Breaker
MLVP	Main Low Voltage Panel
NFC	Near Field Communication
PE	Protective Earth
RCD	Residual Current Device
RFID	Radio Frequency Identification
TM	Troniq Modular
TCM	Troniq Compact Modular
THP	Troniq High Power Modular
TUHP	Troniq Ultra High Power Modular
VAC	Volts Alternating Current
VDC	Volts Direct Current

2. Safety

2.1 Safety instructions

Read and follow the following safety precautions before you install, service, repair, relocate, use or decommission your charging station. The installer must ensure that the charging station is installed in accordance with the relevant country-specific standards and local regulations.

The installation must be performed by a trained and EVBox certified installer.

Danger: Switch off the Main Low Voltage Panel before performing any installation or maintenance work on a EVBox charging station. Please refer to Chapter 7.1, Main Low Voltage Panel disconnection, page 37

Danger: If, for any reason, you cannot switch off the Main Low Voltage Panel, **you must absolutely isolate both AC circuit and DC circuit** by opening the main AC switch disconnecter and the DC switch disconnecter of the charging station you need to work on.

In this case, there is still voltage presence inside the charging station, upstream switch disconnectors.

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.
- If you are unsure about how to install or use the charging station after reading this manual, contact your retailer or reseller for more information.

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

- Only a qualified electrician is permitted to install, service, repair, or relocate the charging station.
- The user must not attempt to service or repair the charging station as it does not contain user-serviceable parts.
- State or province and local regulations may be applicable and may vary depending on your place of residence or country of use. A qualified electrician must always ensure that the charging station is installed, serviced, repaired, relocated, and decommissioned according to the applicable state or province and local regulations.

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, unless specified in the maintenance instructions.
- Do not install a charging station that is faulty or has a noticeable defect or deficiency.

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.

Danger: Some electric vehicles release hazardous or explosive gases when charging which will result in the risk of explosion, which may cause severe injury or death.

- Refer to your vehicle user manual to check if your vehicle releases hazardous or explosive gases when charging.
- Follow the instructions given in the vehicle user manual before choosing the location of the charging station.

Danger: Extensive exposure of the charging station to water will result in the risk of electric shock, which may 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: Loose AC or DC electric connections may cause electrical fire.

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 may 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, and be 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: Improper use of the charging station can result in damage to the charging station, which can cause injury or death.

- Read and understand this manual before installing or using the charging station.
- Do not allow children to operate or play with the charging station. Adult supervision is required when children can access a charging station that is in use.
- Do not put fingers into the electric vehicle connector.

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

- Before connecting the charging station, have a qualified electrician confirm that all wiring is properly installed and complies with applicable state or province and local requirements.
- 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 can cause injury or death.

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

Warning: Using the charging station under conditions not specified in this manual can result in damage to the charging station, which can 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 can 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.

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

- Before you connect the charging cable to the vehicle, fully unwind the charging cable so it has no overlapping loops.

Caution: Be sure that the charging cable is positioned and stowed so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

Caution: Putting fingers into or leaving other objects inside the charging connector (for example, during cleaning) can cause injury or can damage the charging station.

- Do not put your fingers into the charging connector.
- Do not leave objects inside the charging connector.

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.

Caution: This product must be connected to a grounded, metal, and permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal on the product.


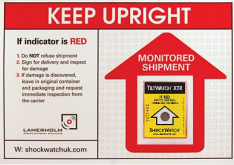
Caution: Not enabling firmware updates for this charging station, or disabling, opting out of, or otherwise failing to install available firmware updates, can cause the charging station to encounter problems, function with errors, and be more prone to safety or security risks.

Caution: Individual electric utilities and other providers of physical electricity distribution service may impose registration or connection requirements applicable to the charging station. The user and/or the user's qualified electrician should contact the local utility or provider of electricity distribution service to confirm that the existing infrastructure is adequate to accommodate installation of the charging station and to confirm the existence of any registration, connection, or other requirements.

2.2 Safety labels on the packaging

Label	Location	Description
	On the packaging	Tip over hazard. Packaging to be handled with a mechanical unloading device or forklift.

2. Safety

Label	Location	Description
	On the packaging	<p>ATTENTION! Content to be checked in the presence of the carrier Packaging not to be handled without a mechanical unloading device or forklift</p> <p>YOUR RESPONSIBILITY IS INVOLVED IN CASE OF DISPUTE</p>
	On the packaging	<p>KEEP UPRIGHT If indicator is RED</p> <ol style="list-style-type: none"> 1. Do NOT refuse shipment. 2. Sign for delivery and inspect for damage. 3. If damage is discovered, leave in original container and packaging and request immediate inspection from the carrier.

2.3 Storage

Warning: Condensation inside the cabinet damages the charging station.

- Only transport and store the charging station 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 away from exposure to the sun and in a dry environment in the temperature and humidity range stated in the specifications, Chapter 3.2, Technical specifications, page 16.
 - Disconnect input power before removing the charging station for storage or relocation.
- Failure to follow these instructions will result in waiver of warranty and product damage.

2.4 Transport

2.4.1 Tipped product

After any transportation, make a detailed visual inspection of the exterior packaging. The charging station should not be tipped.

Inspect the **TiltWatch** symbol on the packaging. If **TiltWatch** is red, tipping of the charging station has occurred. Follow the instructions on the TiltWatch label.



2.4.2 Visual inspection

After any transportation, make a detailed visual inspection of the charging station with its packaging removed.

Check if:

- The exterior packaging has been damaged.
- The exterior panels of the charging station are damaged (for example, dented or scratched).
- The doors are working properly.
- The interior of the charging station is clean and undamaged.

Damaged product:

Reject the product if there is any visible damage. Make all damage claims to the transport operator immediately and also immediately inform the sender regarding transport insurance.

Warning: Failure to follow these instructions can result in death, serious injury or equipment damage.

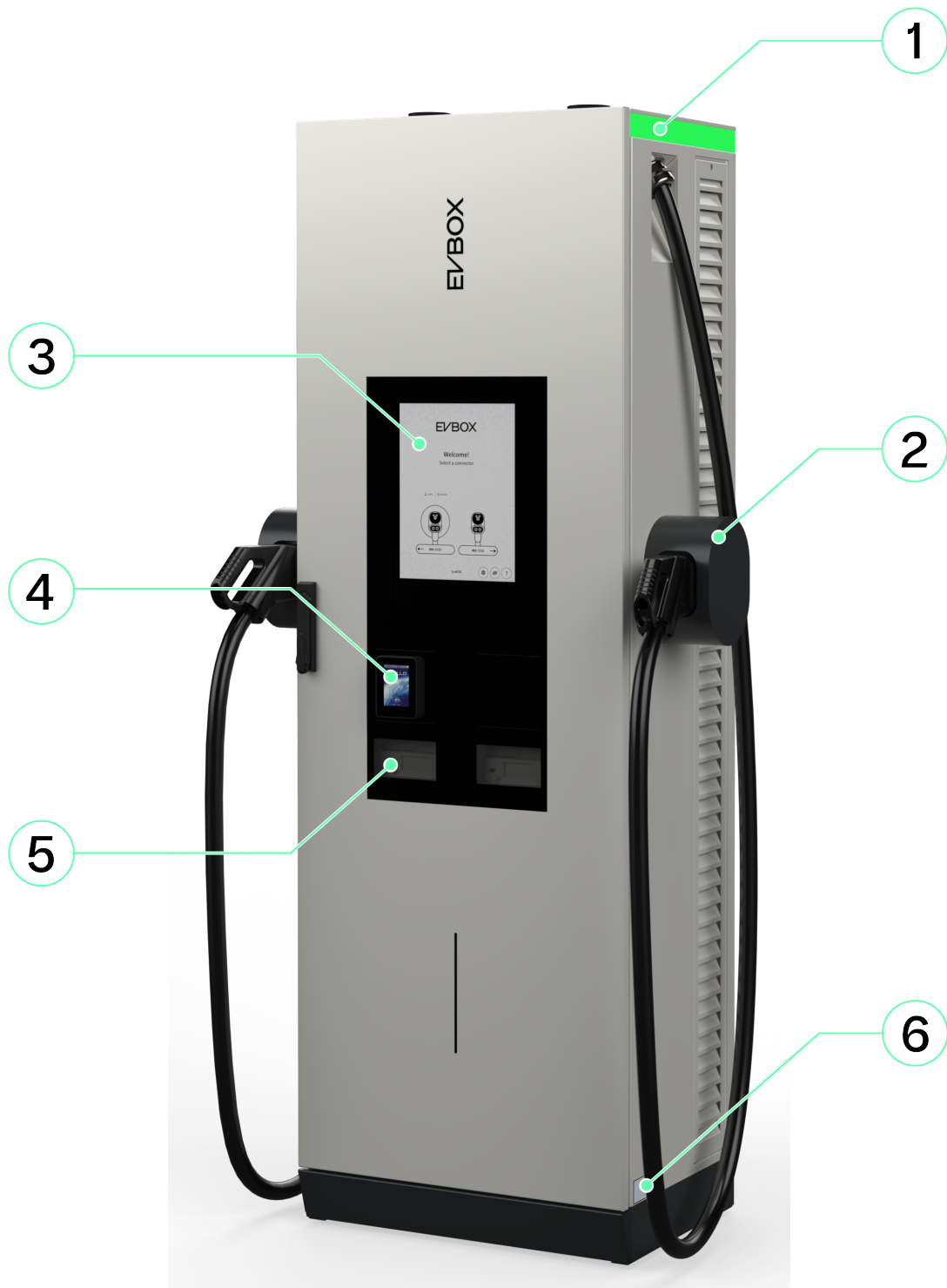


EVBox charging station in its transport crate*

* This is a temporary illustration, final packaging not determined yet.

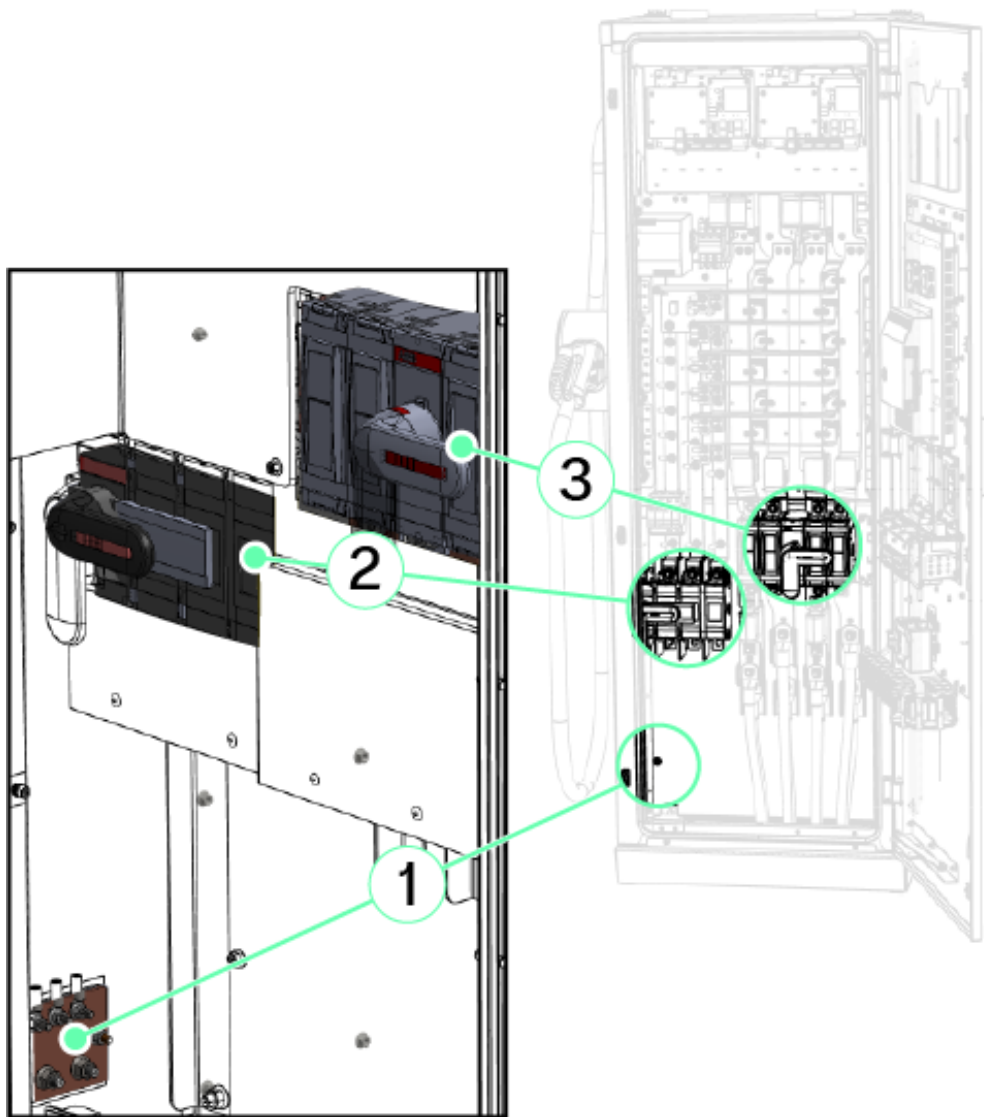
3. Product features

3.1 Overview



External view of Troniq Compact Modular

1. LED indicators
2. Charging cable (CCS2, CHAdeMO, depending on the configuration)
3. 15" touchscreen
4. Payment terminal (depending on the configuration)
5. DC meter (depending on the configuration)
6. Charging station's nameplate



Internal view of Troniq Compact Modular

1. Protective Earth connection plate
2. AC switch disconnecter
3. DC switch disconnecter (Only on Decentralized Distributed Architecture option)

3.2 Technical specifications

DC OUTPUT

Connector type	CCS2: up to 500A (prepared for 600A boost) Chademo: up to 125A
Output power	One Power Module: 40 kW, max 125A - Two Power Modules: 80kW, max 250A - Three Power Modules: 120kW, max 375A - Four Power Modules: 160kW, max 500A - Five Power Modules: 200kW, max 600A
Power module granularity	40kW
Output voltage range	Min: 150VDC Max: 1000VDC
Output current	CCS2: 500A
Cable length	CCS2: S: 3m / M: 4,5m / XL: 7,5 m / XXL: 10m Cable Management System (CMS): optional

Note: The power delivered by the charging station depends on several factors, such as:

- Vehicle battery voltage
- Vehicle battery temperature
- Vehicle state of charge
- Ambient temperature

STRUCTURE AND PHYSICAL PROPERTIES

Enclosure material	Powder coated paint, enclosure in alloy, galvanized and stainless steel
Enclosure ratings	IP65*/IK10 *Certification pending
Noise level	< 52dBA at 3m and 20°C
Operating temperature	-30°C to +55°C with derating
Storage temperature	-40°C to +70°C
Operating humidity	10% to 95% relative humidity, non-condensing
Storage humidity	10% to 95% relative humidity, non-condensing
Ambiance	Non-explosive area
Cooling	Pass-through ventilation
Maximum installation altitude	2000m
Dimensions (W x H x D)	645 x 1920 x 467mm
Weight	270kg to 350kg depending on configuration
Colours	Body: Traffic White (RAL 9016) Other: Black Grey (RAL 7021), Jet Black (RAL 9005) Options for custom colours (powder coating), foil application and stickers
EMC Classification	Class B EN 61000-6-3, EN 61000-6-1, IEC 61851-21-2 (INDUSTRIAL - ENVIRONMENTS)
Installation environment	Indoor and outdoor installation
Type of installation	Floor mounted on plinth or base Concrete foundation base: optional
Inlet cable	max 300 mm ² per phase and max Ø 33 mm per conductor
Protective class	Class 1 (protective earth connection)
Pollution degree	Degree 4

CERTIFICATION & COMPLIANCE

Main certifications	CE, UKCA, ISO/CEI 27001
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CERTIFICATION & COMPLIANCE

EU Directives	Directive 2014/35/EU (LVD) Directive 2014/30/EU (EMC) Directive 2014/53/EU (RED) & EN 18031 Directive 2011/65/EU (RoHS) (as amended by 2015/863/EU)
Electrical Safety standards	IEC 61851-1: 2017; EN 61851-1: 2019 / IEC 61851-23: 2014; EN 61851-23: 2014/C1: 2016 / IEC 61851-21-2: 2018; EN 61851-21-2: 2021
DC meters	Class A according to EN 50470, with accuracy better than $\pm 2\%$, two possible configurations: – Eichrecht (Germany and Austria) – MID / LNE (LNE: for France; MID: for the rest of Europe)

CONNECTIVITY

RFID Reader & Authorization	RFID / NFC (ISO 14443A/B, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, Classic, Desfire), Autocharge (MAC Address)
Payment terminal	Optional: Contactless payment terminal with Pinpad, supporting Apple Pay
Status indication	LED strips
HMI / User Interface	15" IK10 anti-vandalism LCD colour touchscreen
Network connection	LTE/UMTS/GSM Modem 4G/3G/2G, 10/100Base-T Ethernet
Communication protocol to the backend	Open Charge Point Protocol (OCPP) 1.6J, OCPP 2.0.1-ready
Communication protocol to the EV	CCS2: ISO 15118, EN 61851-24/DIN SPEC 70121, CHAdeMO 1.2
Remote diagnostics	Remote access, diagnostics, software updates
Load and charging management	Automatic and intelligent power distribution across charging points
Multilingual system	User Interface in 22 languages

AC INPUT

Voltage range	Min: 360VAC (400VAC -10%) Max: 530VAC (480VAC +10%)
Number of phase	3 phases TN-C TN-S TN-C-S TT
Frequency	50/60Hz
Nominal input current	40kW: max 60A, 80kW: max 120A, 120kW: max 180A, 160kW: max 240A, 200kW: max 300A
Short circuit current rating (SCCR)	65kA
Power factor	> 0.99
Efficiency	Up to 97.5%
THDi	<3% at full load
Surge protection device	Type 2 + 3
Overvoltage category	OVC III, DIN EN 60664-1

ADDITIONAL FEATURES

Simultaneous charging	Simultaneous charging on all connectors
Dynamic load management	Maximum total DC output granularity for dynamic load management: 40 kW
Noise management	Configurable noise level limits for daytime and nighttime operation, ideal for noise-sensitive environments.
Additional safety features	Optional: emergency stop button Door contact switch

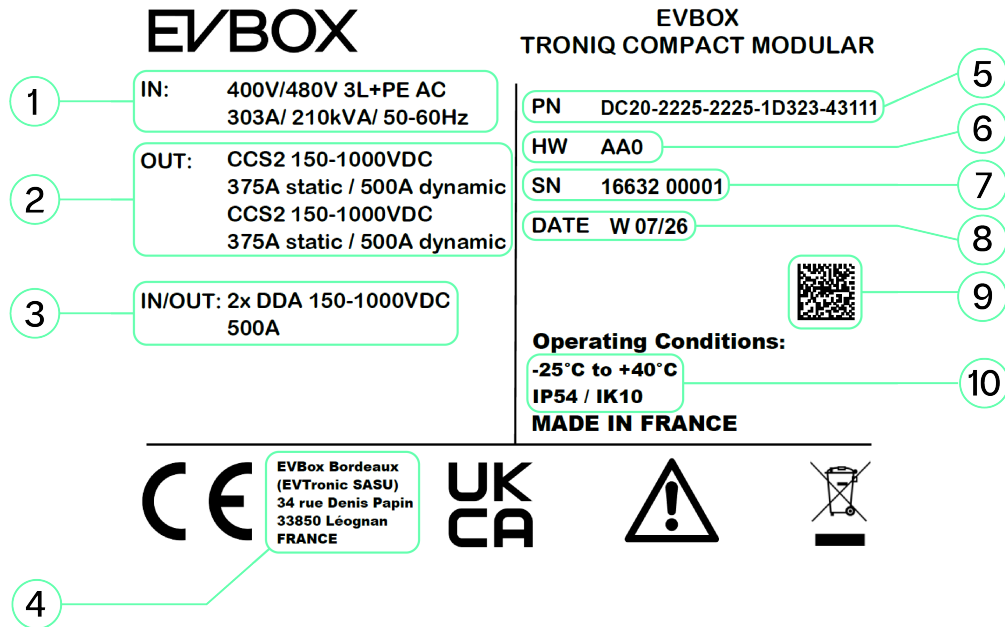
Specifications and performance data contain average values within existing specification tolerances and are subject to change without prior notice.
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3.3 Delivered components

The packaging includes the following components:

- Charging station
- Installation template

3.4 Charging station nameplate

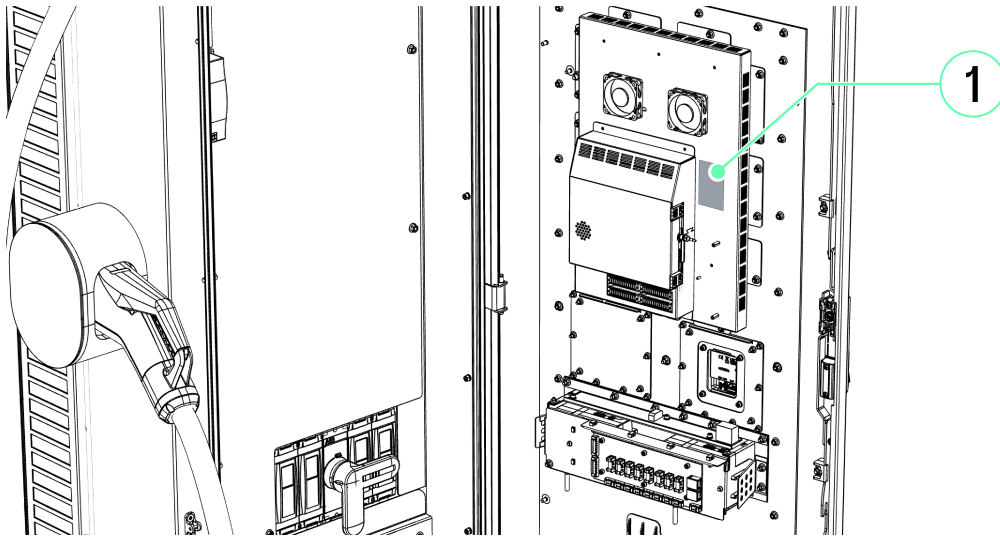


Troniq Compact Modular nameplate

1. Input power characteristics
2. Output power characteristics
3. Output power characteristics (Decentralized Distributed Architecture)
4. Manufacturer's address
5. Product number of the charging station
6. Hardware version
7. Serial number of the charging station
8. Date of manufacture
9. Datamatrix containing PN and SN
10. Environmental condition

3.5 Touchscreen nameplate

The touchscreen nameplate is located behind the HMI cover.



EVBOX

1

EVBOX SUCCESS V4

2

PN : S001740AA8

3

Nominal Voltage : 24V DC

Nominal Current : 1A

Maximum Power : 24W

Contains a non-rechargeable
lithium 3.0V cell battery CR1220

4

EVBox Bordeaux (EVTronic SASU)
34 rue Denis Papin 33850 Léognan FRANCE



MADE IN FRANCE

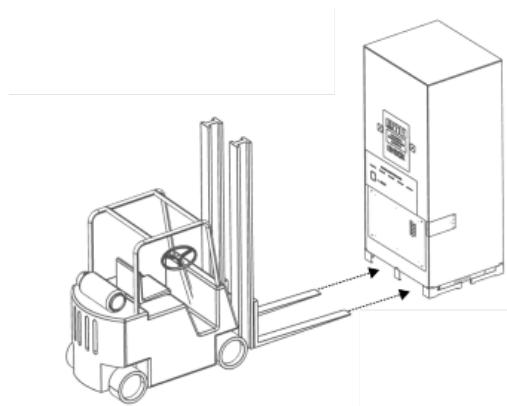
EVBox Success nameplate

1. Name of the touchscreen
2. Product number of the touchscreen
3. Technical data
4. Manufacturer's address

4. Packaging and handling

4.1 Packed product handling

Handle the packed product with a forklift.



4.2 Packaging removal

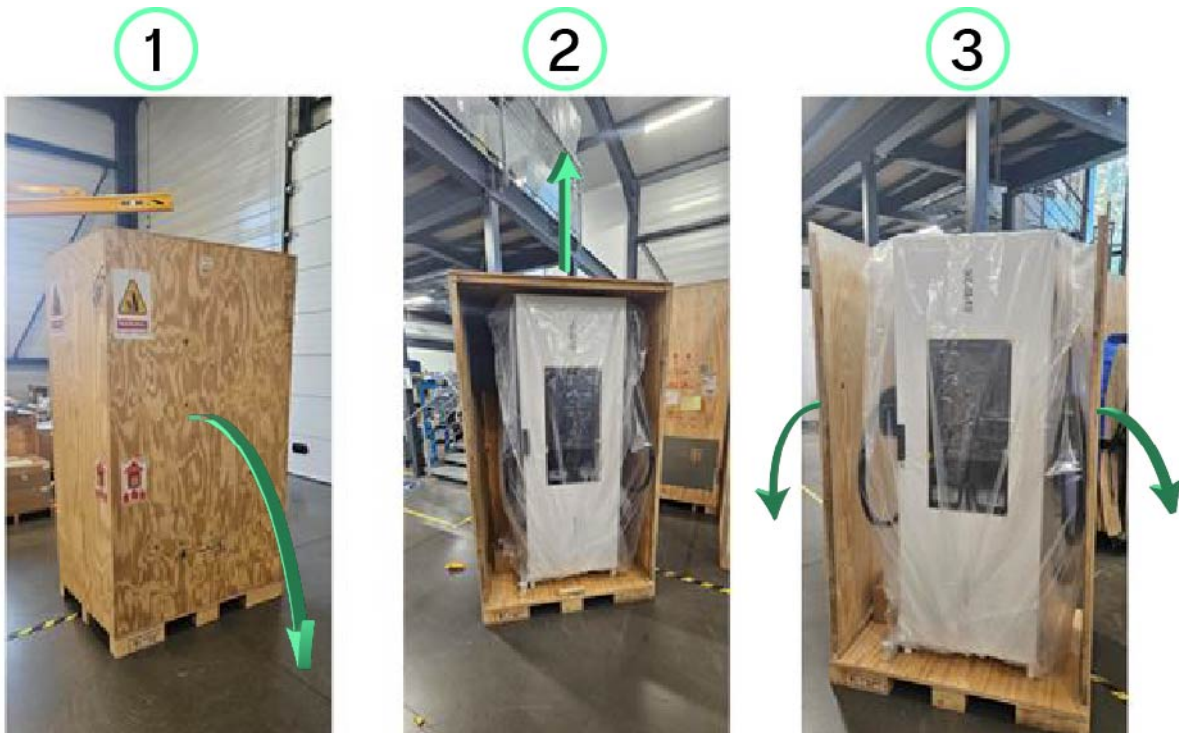
Caution: Some operations described in this manual may require a ladder or a step ladder.

Refer to your local regulation regarding the working height and relevant safety instructions.

Warning: Improper use of a step ladder can cause injury or death.

- Follow the manufacturer's instructions for the step ladder.

1. Remove the front panel.
2. Remove the top panel.
3. Remove the side panels.



This is a temporary illustration, final packaging is not determined yet.





5. Charging station handling

Warning: Incorrect handling can result in death, serious injury, or equipment damage.

- Do not handle the product in a way other than described.
- Always transport the charging station in an upright position.
- The center of gravity of the charging station is high, take care when handling.
- The charging station must be protected against overturning. This protection must be maintained until final mounting.
- Do not manipulate the charging station when it is connected to the power supply.
- Do not use a crane type hoist that is unable to support the weight of the charging station.
- Do not place your hands or any part of your body underneath or between the bottom side openings of the charging station
- Take all measures required to avoid damage to the product and other hazards.

Prerequisite: You have unpacked the charging station

Prerequisite: Wear your Personal Protection Equipment and keep them during the entire procedure.

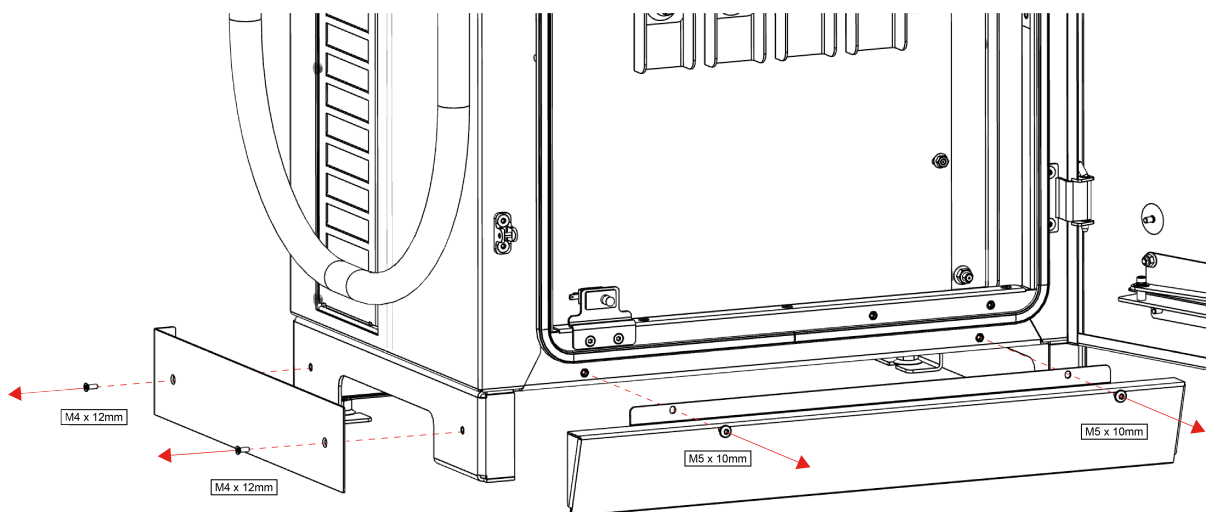
Protective gloves	High visibility	Safety footwear	Eyes protection
			

5.1 Handling with a forklift

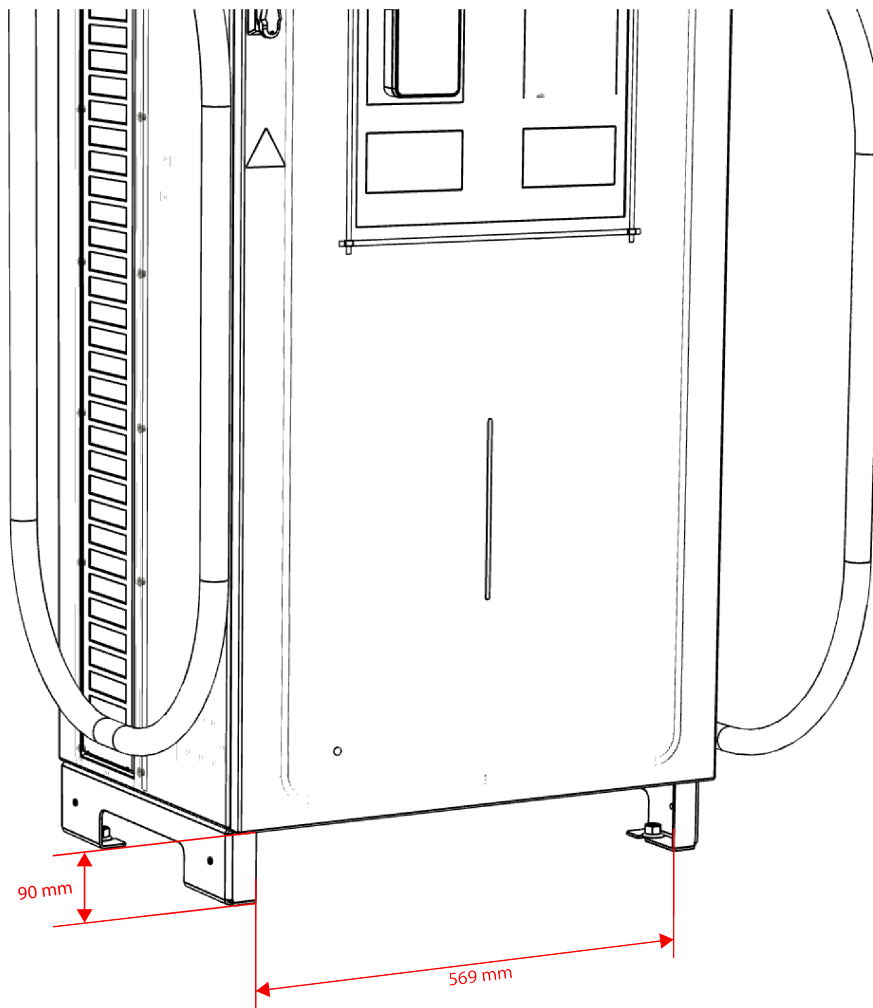
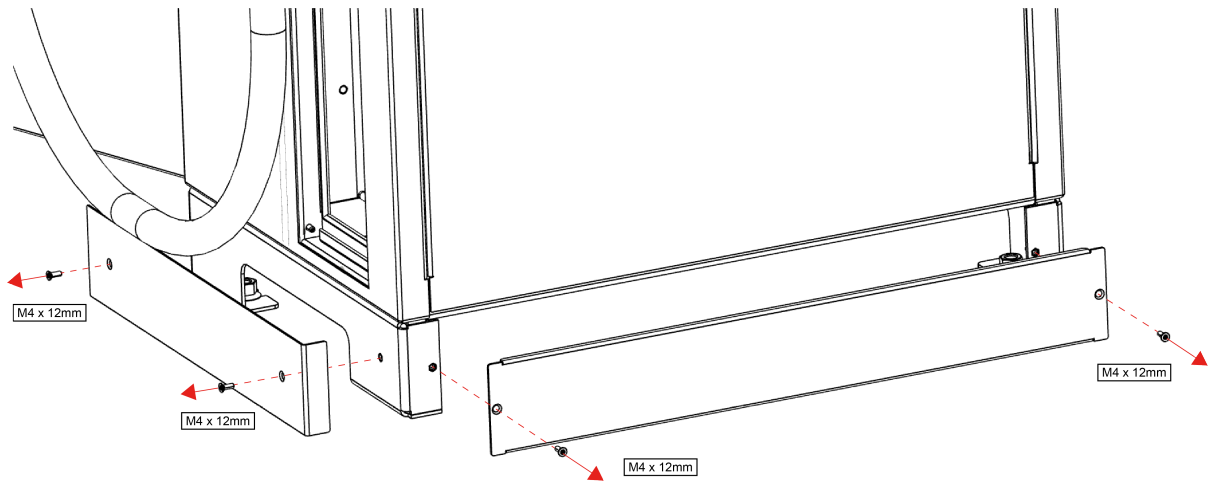
Note: It is recommended to use a forklift with fork that can move horizontally and at an angle.

To move the charging station with a forklift, remove the cable entry sealing plates.

1. Remove the x2 M5x10mm screws and remove the front plate.
2. Remove the x6 M4x12mm screws and remove the other plates.



5. Charging station handling



Bottom dimensions of Troniq Compact Modular

5.2 Handling by crane

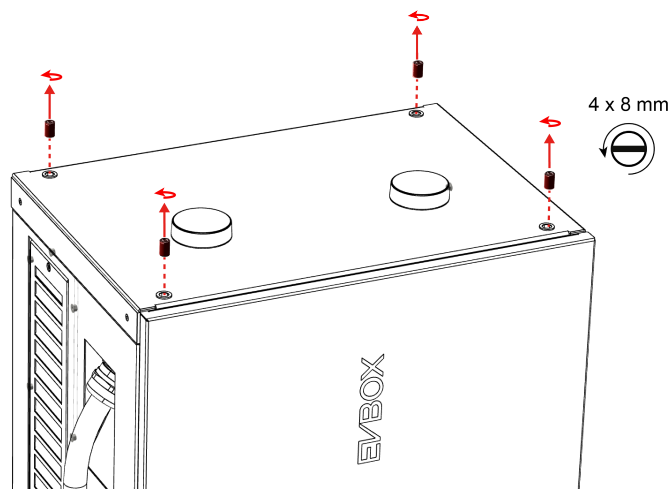
Note: To handle the charging station, it is recommended to use a crane that have capability to lift the charging station evenly vertically and have motor control that allows accurate movement in horizontal and vertical planes.

Caution: Some operations described in this manual may require a ladder or a step ladder. Refer to your local regulation regarding the working height and relevant safety instructions.

Warning: Improper use of a step ladder can cause injury or death.

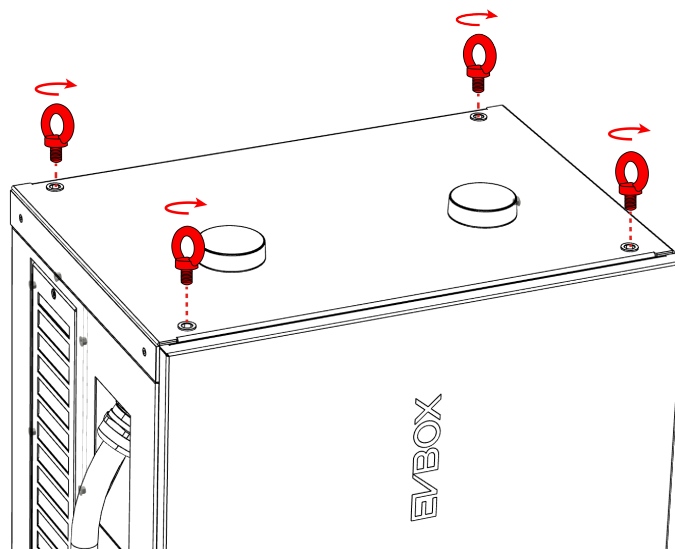
- Follow the manufacturer's instructions for the step ladder.

1. Remove the 4 slotted screws on the roof. Put them aside as they will be needed to put back in the roof at the end of the installation process.



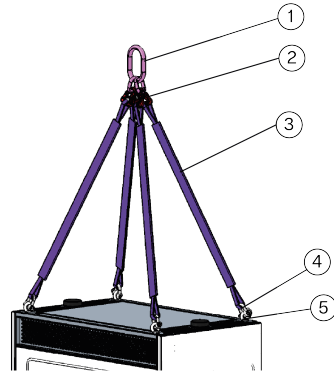
2. Screw and tighten by hand the x4 M12 lifting rings (not included).

Warning: Incorrect tightening of the lifting rings can result in death, serious injury, or equipment damage. Lifting rings must be fully engaged in the chassis.



5. Charging station handling

3. Install slings and head links.






Item	Description
1	Head link, 4 pieces (not included)
2	Connecting link for sling (not included)
3	Sling with two loops (at least 3.28 ft / 1 m) (not included)
4	Straight shackle or D-shaped (not included)
5	Male eyelet (lifting ring) M12.

6. Preparing for installation

The following recommendations are intended as a guide to help you prepare for the installation of the EVBox Troniq Compact Modular charging station.

Prerequisite: Wear your Personal Protection Equipment and keep them during the entire procedure.

Protective gloves	High visibility	Safety footwear	Eyes protection
			

6.1 Safety precautions

You must read and follow the Chapter 2.1, Safety instructions, page 9 at the beginning of this manual before you install, service, or use the EVBox Troniq Compact Modular charging station. The installer must ensure that the charging station is installed in accordance with the relevant country-specific standards and local regulations.

6.2 Installation plan

6.2.1 Electrical

- Calculate the existing electrical load to determine the maximum operating current for the charging station installation.
- Calculate the distance from the local power supply panel to the charging station installation to find the voltage drop. State or province and local regulations may apply and can vary depending upon the installation location.
- Grounding connectors must not be spliced.
- Obtain all necessary permits from the local authority that has jurisdiction.
- Refer to local regulations for maximum current and voltage drop allowed to select the proper conductor sizes.
- Prepare the upstream electric switchboard according to applicable state or province, and local regulations and the EVBox recommendations in Chapter 6.10.1, Upstream requirements, page 33.
- Prepare the installation areas with the correct power wiring and data cabling.

6.2.2 Other

- Make sure that there is good cellular reception where the charging station will be installed.
- Use the correct tools and ensure sufficient material resources and protection measures.
- Obtain all necessary permits from the local authority that has jurisdiction.

6.2.3 Decentralized Distributed Architecture

If you want to connect several charging stations and thus enabling dynamic sharing of several EVBox charging station's DC power, please refer to DDA's installation manual D003525AA1. All related documents to Troniq Compact Modular's installation can be found in Chapter 1.3, Related documents, page 5

6.3 Select location

Caution: Make sure there is no height conflict for the installation, please refer to Chapter 5.2, Handling by crane, page 23

This charging station is intended for:

- Outdoor and indoor areas
- Non-restricted area
- Non explosive environment.
- An environment with no accumulation of sand, dust, snow, or other adverse conditions.
- An environment where it is not exposed to extreme sunlight and vulnerable to external damage.

6. Preparing for installation

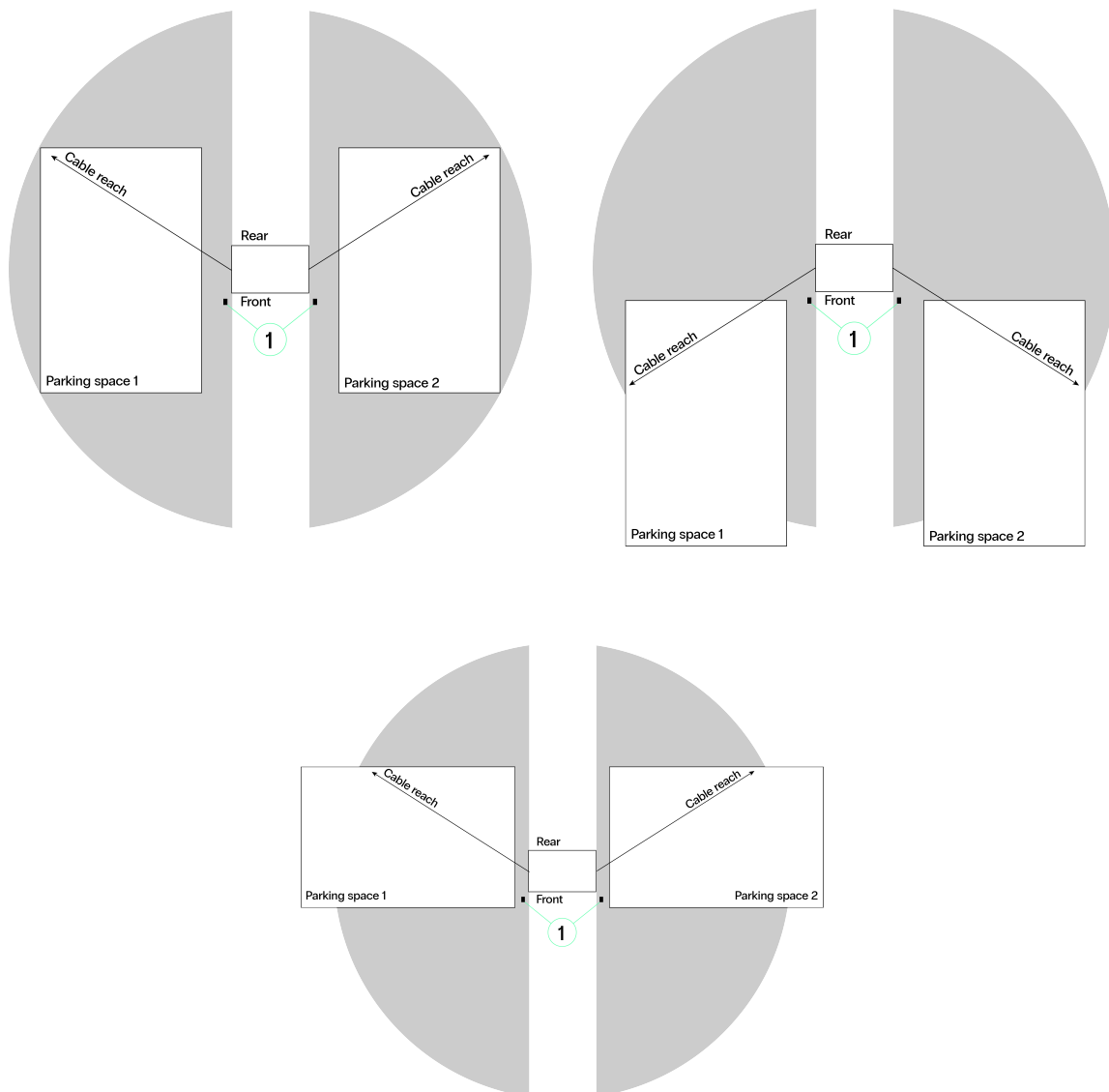
Note: In locations with harsh weather conditions (high temperatures, snow, strong sun conditions, etc.) it is recommended to ensure additional protection such as canopy or roof protection.

Note: For more information about the environmental conditions, please refer to Chapter 3.2, Technical specifications, page 16.

6.4 Parking space placement

To achieve the maximum cable reach, it is recommended to install the Troniq Compact Modular charging station as explained in this section.

- Leave adequate free space in front of the charging station to ensure that users can interact with the touch-screen and other interfaces safely and comfortably.
- Leave at least 600 mm on both sides of the charging station in order to ensure the connector is accessible.



1. Parking bollards

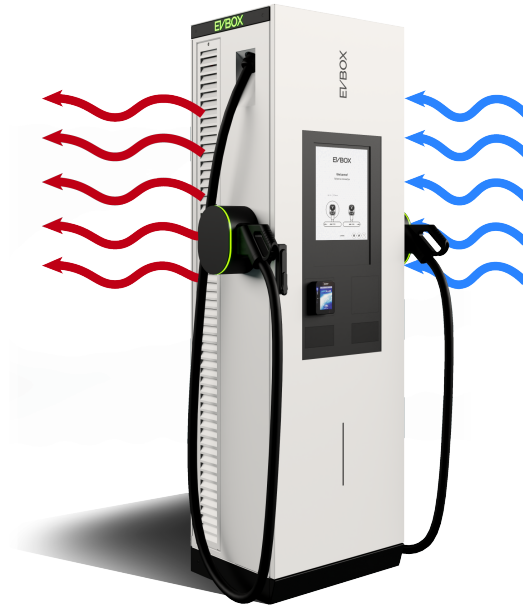
Note: Cable reach: 3m / 4,5m / 7,5m / 10m

Note: Bollards should not interfere with the clearance around the charging station Chapter 6.6, Clearance, page 28).

Note: For people with reduced mobility it is recommended to install the charging station on plain ground (no sidewalk). Please refer to Chapter 11.2, Access for People with Reduced Mobility (PRM), page 58.

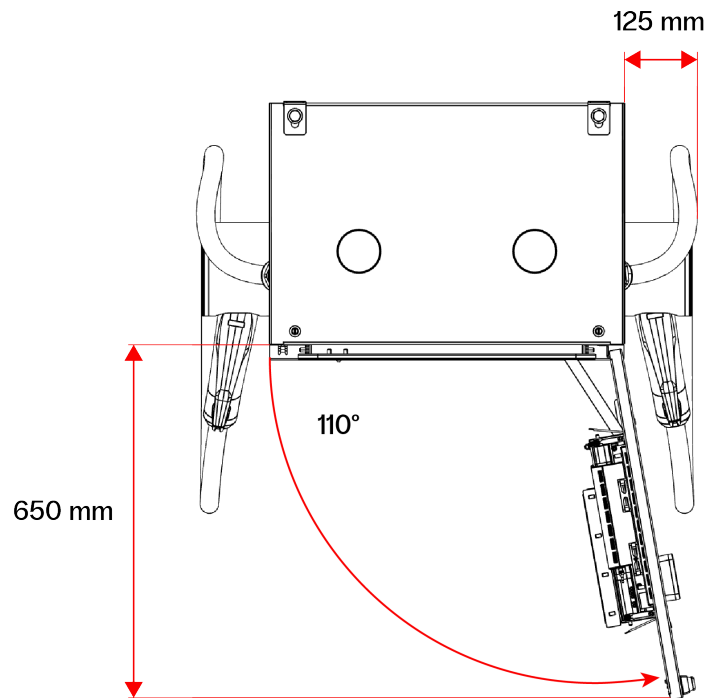
6.5 Cooling

The air flows through the Troniq Compact Modular in a cross-ventilation manner, entering and exiting through the side panels.

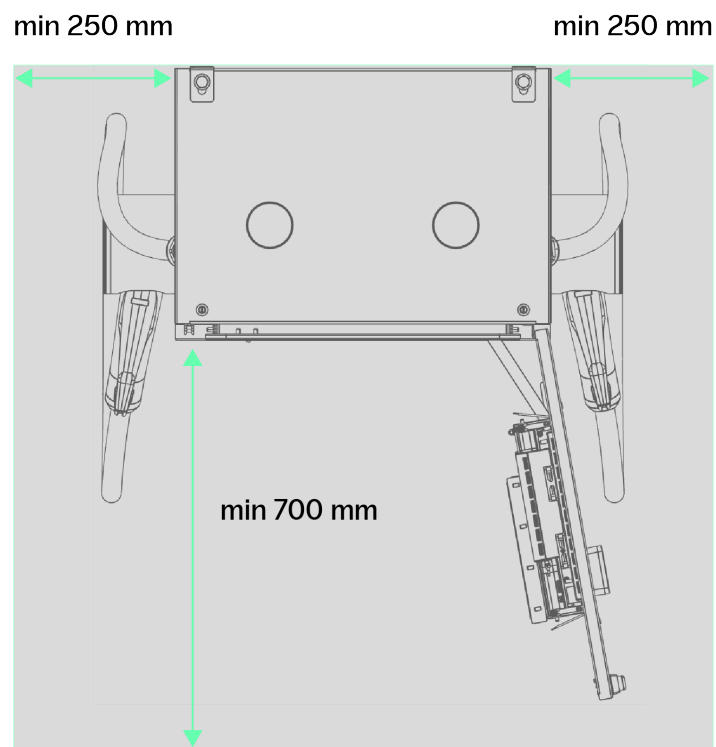


6.6 Clearance

The Troniq Compact Modular requires the following space for cable handling by users and for maintenance operations.



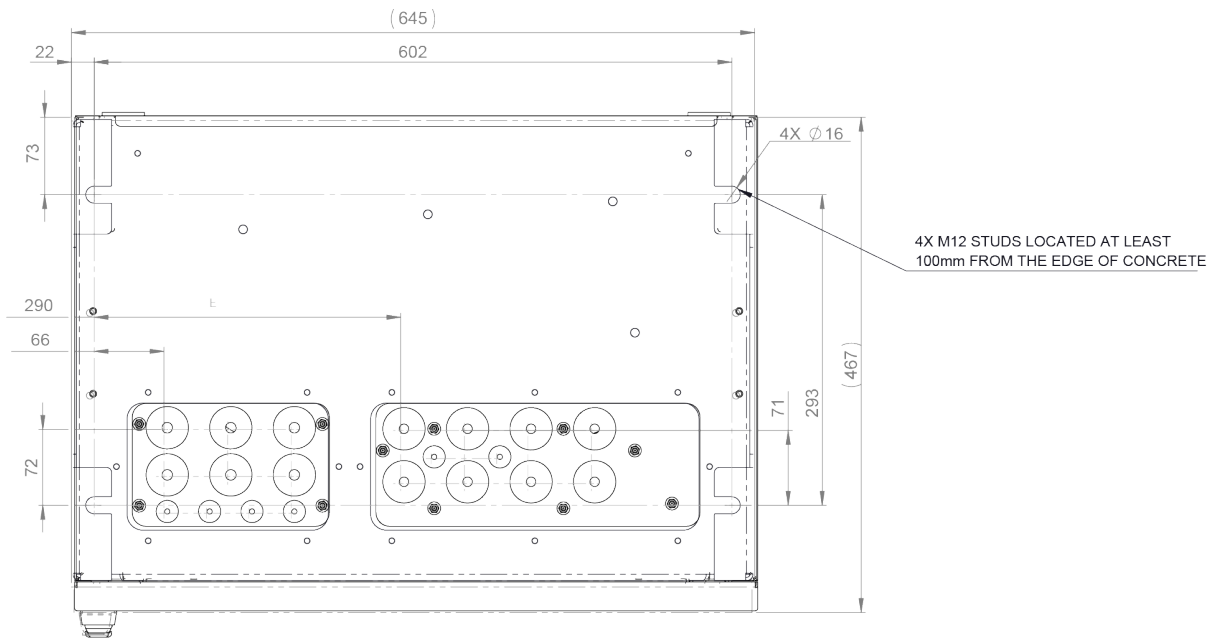
Troniq Compact Modular overall dimensions



Troniq Compact Modular clearance

6.7 Layout plan

Prepare the foundations according to the following illustration:



Troniq Compact Modular bottom connection layout

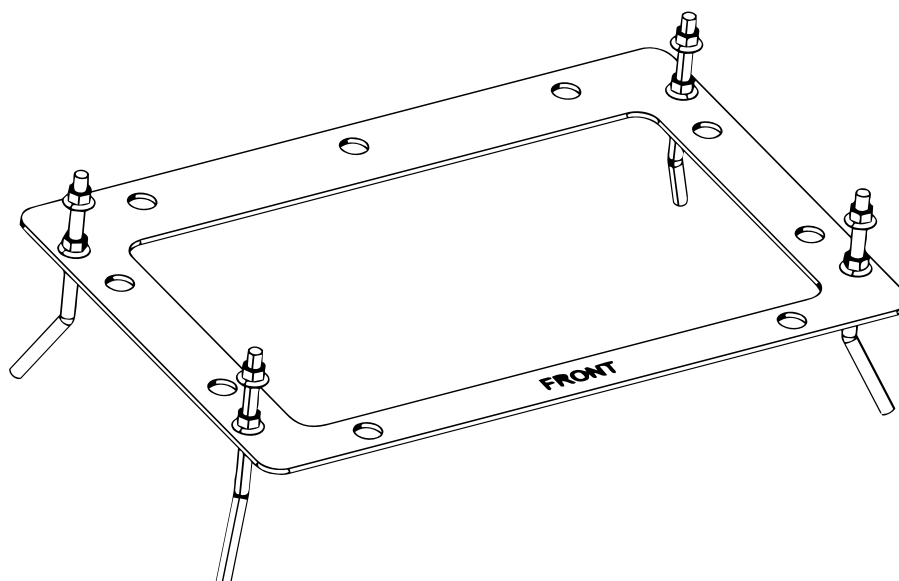
6.8 Foundations

Follow the following rules regarding the foundation:

- Foundation must be carried out in accordance with local regulations.
- Concrete characteristics must be calculated based on the technical data of the charging station.
- Concrete should be frost-proof.
- Thickness of the foundation must be calculated in accordance with the weight of the system and the installation site.
- Foundation must be flat and leveled.
- Foundation must be under the ground.
- Charging station must be installed on the ground.

6.8.1 Optional: Anchor foundation mounting kit

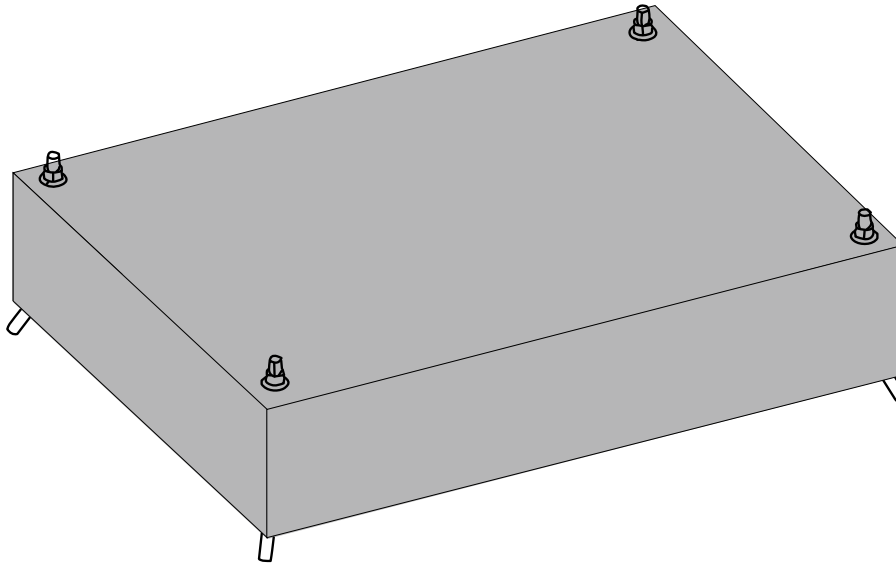
To ensure a solid installation, we recommend using the anchor mounting kit sold as an option with your charging station.



6. Preparing for installation

1. Insert the x4 anchor bolts in the galvanized sealing base.
2. Fix the assembly with x8 M12 nuts, tighten on both side of the sealing base
3. Lay the assembly and seal it in the concrete foundation.

The lower sheet plate, galvanized, widely perforated for effective penetration into the concrete, will be sealed in concrete as shown on the below illustration.



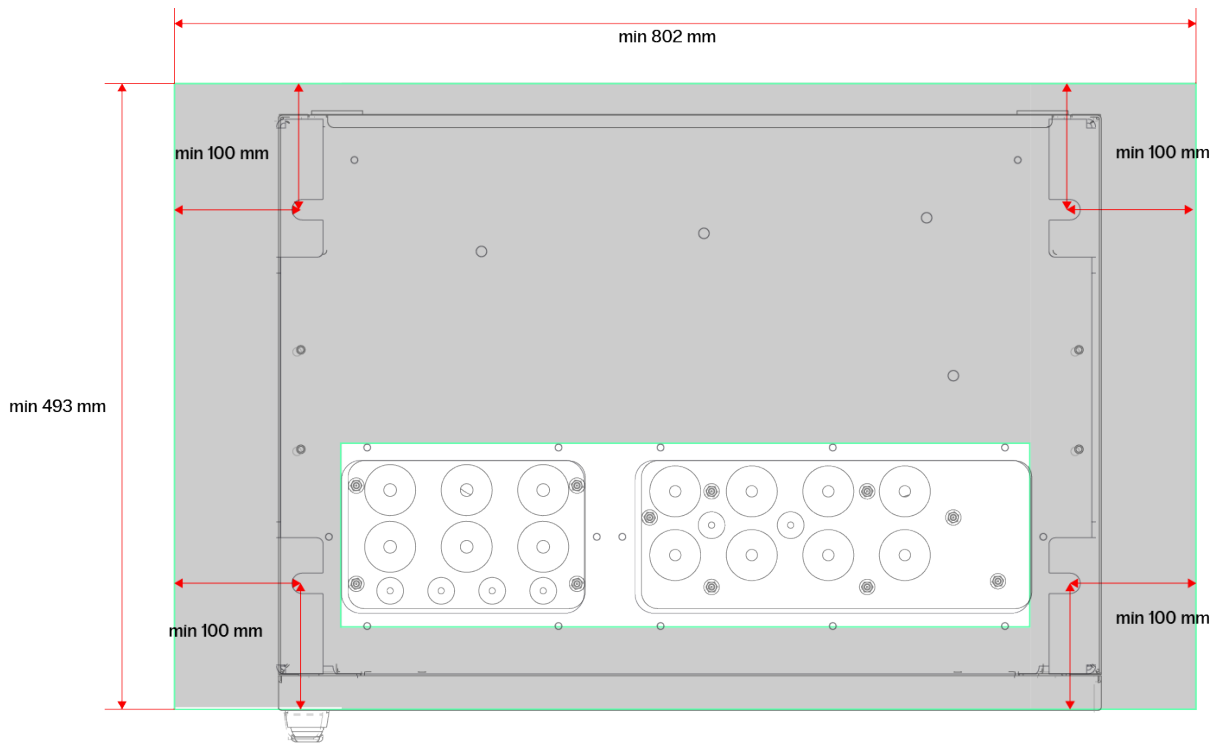
The x4 anchor bolts and M12 nuts will be used to secure the Troniq Compact Modular charging station to the ground.

6.8.2 Concrete foundation configuration

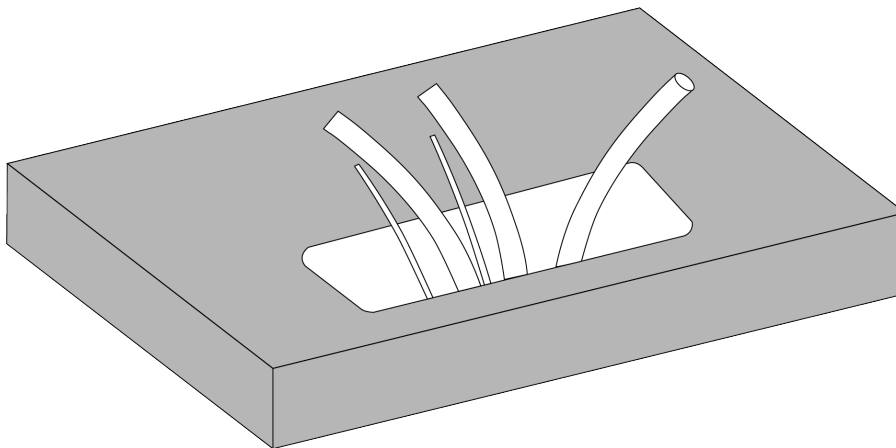
Note: In DDA configuration, make sure the foundations is adapted to DDA chaining. It is necessary to provide conduits to allow the routing of 8 cables of 300mm² for DC chaining (commonly used 240mm²), in addition to the conduit for the AC power supply. Please refer to DDA's installation manual D003525AA1.

1. Dig a hole and prepare the foundations according to the layout plan and the plan below.

Note: Don't forget to allocate room for the cables pathway.



Troniq Compact Modular concrete foundation minimum dimensions



Schematic illustration of the concrete foundation

6.9 Cabling requirements

6.9.1 Recommended cables sections

Note: In DDA configuration, sections are also recommended for DC cables. Please refer to DDA's installation manual D003525AA1.

Charging station output DC power	Max input current*	PE Section
40kW	66A	16mm ²
80kW	137A	16mm ²
120kW	199A	16mm ²
160kW	269A	16mm ²
200kW	336A	16mm ²

*Maximal current is given according to minimum 360VAC grid voltage.

6. Preparing for installation

Note: the maximum AC phase section that can be accepted by the charging station is **300mm²** and **33mm diameter**.

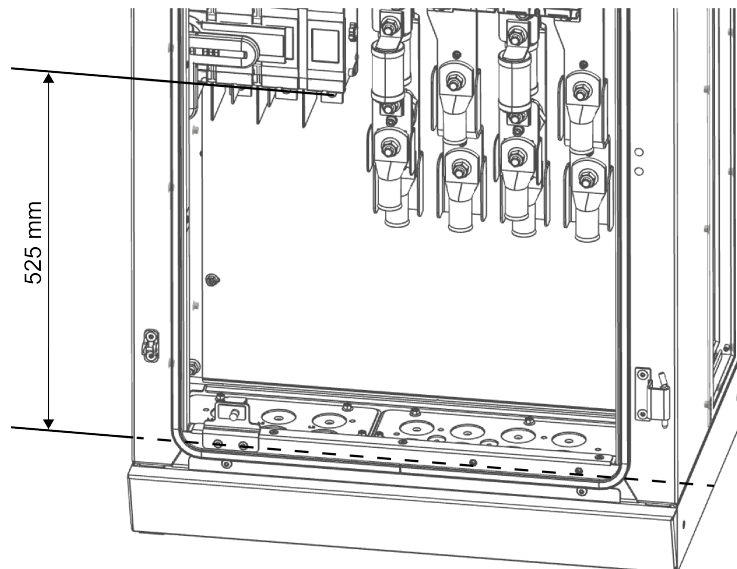
Note: Cable sections, electrical protections and earthing systems have to be approved by the installer or by the R&D department depending on the installation site.

6.9.2 Cables minimum length

Note: In DDA configuration, minimum length is also recommended for DC cables. Please refer to DDA's installation manual D003525AA1.

Note: To avoid cabling issues, cut the cables at the minimum length described in the below table.

	AC Cables	Ethernet cables
Expected length between ground and connectors	525mm	n/a
Minimum length	700mm	1500mm



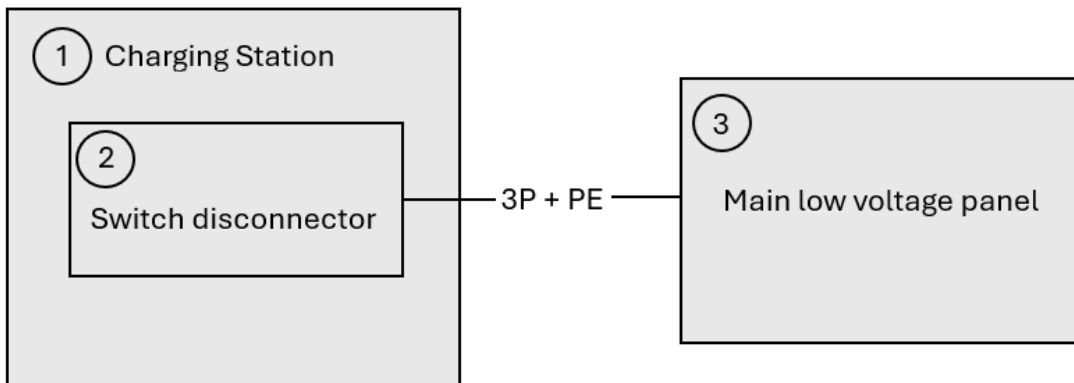
Troniq Compact Modular AC cable heights

6.10 Electrical requirements

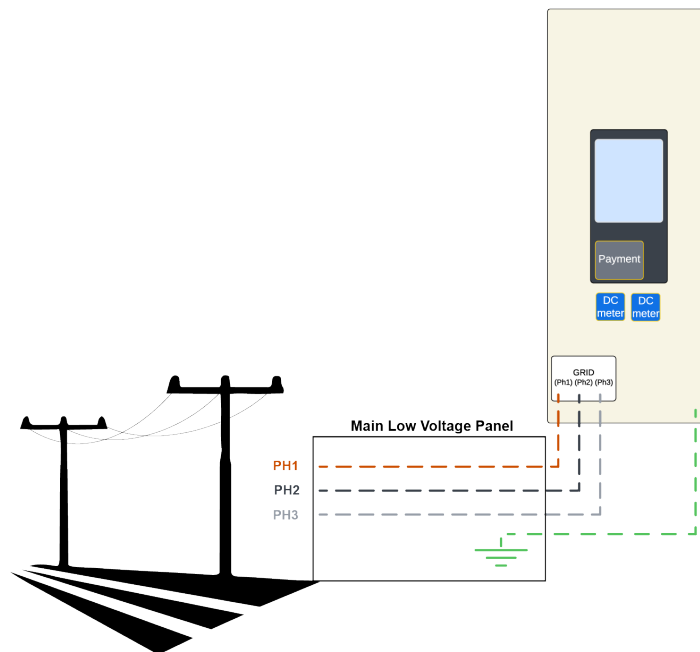
6.10.1 Upstream requirements

The power supply of the charging station has to be tri-phase alternative current (AC) without neutral: L1 / L2 / L3 + Protective Earth (PE).

The charging station must be supplied with power according to the following diagram:



Upstream connection diagram for Troniq Compact Modular



Warning: Electrical connection must be carried out by a professional electrician according to the local regulations.

The charging station must be connected to an electrical network with the following characteristics:

- 400 Vac +/-10% for Europe, 380 Vac +/-10% for Middle East
- 50 Hz / 60 Hz

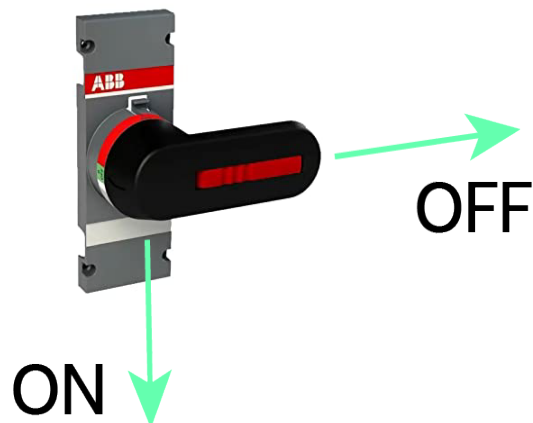
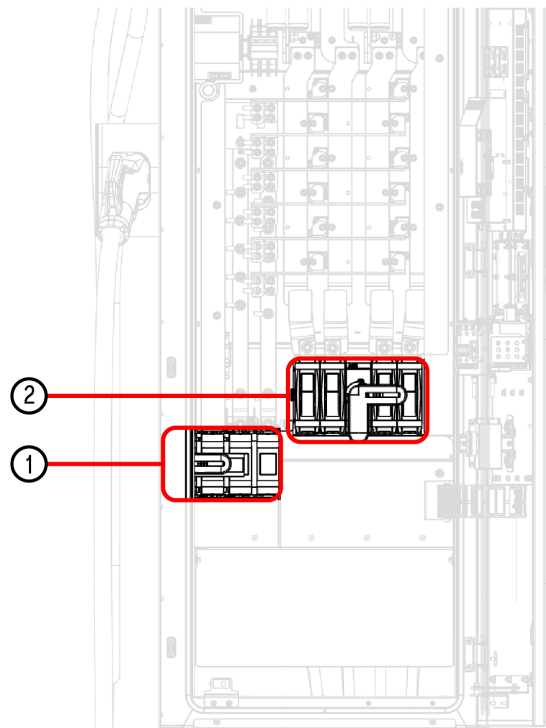
Warning: The main switch disconnecter, located upstream of the charging station power supply, must be rated by the installer. Refer to local regulations, maximum current and voltage drop to select the upstream protection.

6.10.2 Switch Disconnectors

The Troniq Compact Modular charging station has x2 switches disconnectors.

6. Preparing for installation

1. The AC switch disconnect disconnect the charging station from the AC power input of the electrical grid.
2. The DC switch disconnect, is used in DDA configuration and disconnect the charging station from the DC power network of the of the other charging station.



Switch disconnect is in OFF position. The station is not energized.
Switch disconnect is in ON position. The station is energized.

Danger: During installation or maintenance work the AC switch disconnect must always be in OFF position.

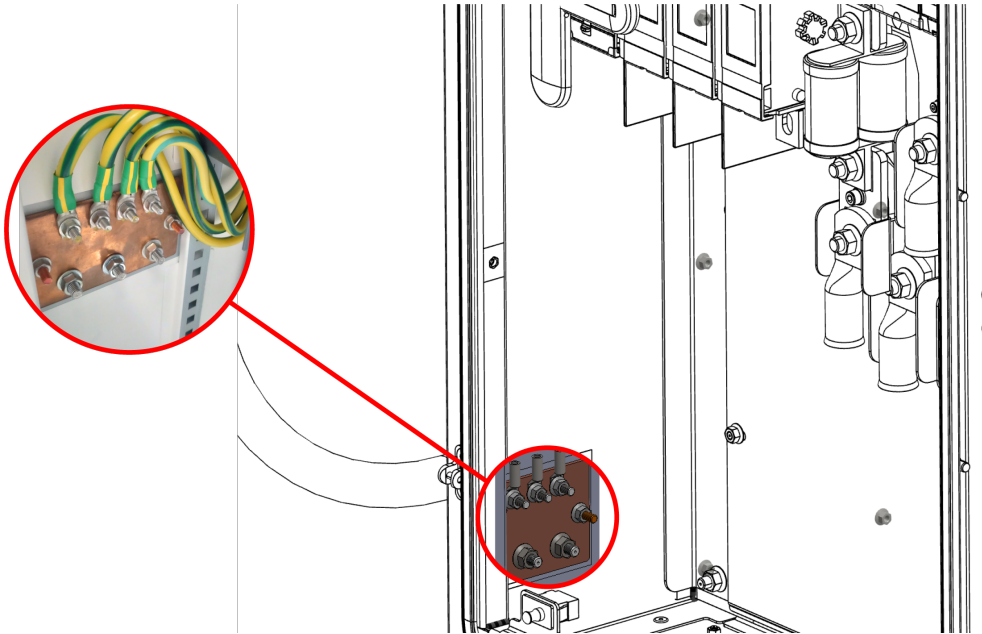
6.10.3 Protective earth instructions

Observe the following rules for the protective earth instructions:

- The measured value of ground impedance of the charging station must be lower than 20Ω , at any time and under any weather condition.
- The PE cross section shall be rated by the installer with reference to local regulation, and shall be at least 16 mm^2 .

charging station	PE section	Terminal	Terminal diameter	Tightening torque	Hex
Troniq Compact Modular	x1 16mm ²	Tubular lugs	8 mm	14 Nm	13 mm

Note: A mark shall be made on each nut with the technical marker after tightening.



Protective Earth connection plate in a Troniq Compact Modular

6.11 Protection against electric shock and short circuits

6.11.1 Protection against electric shock

The charging station contains the following devices to protect against electric shock:

- IMD (Insulation Monitoring Device), one on each outlet on CHAdeMO and CCS2
- Surge protector

Caution: An external RCD (300 mA) is required, but it is not included in the unit.*

Note:

*In accordance with standards IEC 61851-1 and IEC 60364-7-722, it may be necessary to provide an RCD-type protection measure. There is no RCD protection against electric shock provided inside of the charging station.

The choice of the type of protection depends on the grounding and neutral system, please refer to your local regulations transposing the applicable installation standards such as the IEC60364-7-722 standard while respecting the minimum detection limit of an RCD of at least 300 mA.

6.11.2 Short circuit protection

The charging station contains the following devices to protect against short circuit:

- CCS2 and CHAdeMO outlet is protected by fuse.
- Each power converter is auto-protected by an internal fuse.
- The AC/DC 24 Vdc power supply is protected by circuit breaker.

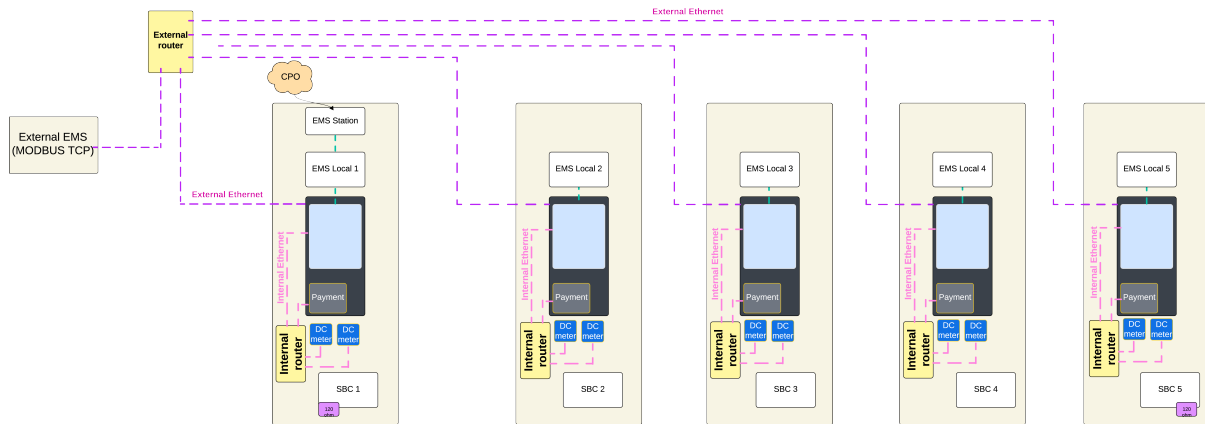
6. Preparing for installation

6.12 Ethernet prerequisite

6.12.1 Ethernet network for modem connection sharing

When connecting several Troniq Compact Modular charging stations together, it is possible to setup an Ethernet network to share modem connection.

It is necessary to use an external switch. Please refer to the below diagram.



Ethernet network sharing on several EVBox charging stations

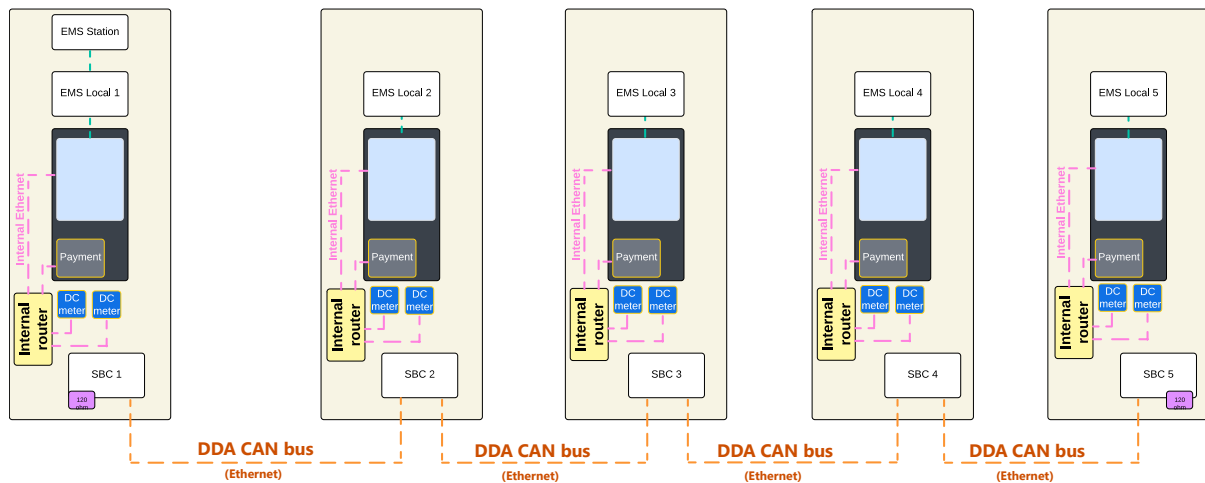
Caution:

Ethernet cables must be separated from high voltage cable by:

- Distance barrier of 50mm
- Isolation barrier

6.12.2 Ethernet CAN BUS network for DDA configuration

Note: In DDA configuration, another Ethernet network must be installed.






Note: Please refer to DDA's installation manual D003525AA1.

7. Installing the charging station

Warning: Put up caution tape and warning signs to mark working areas. Make sure that connection of the electrical current cannot occur during installation. No unauthorized persons should be permitted to enter the working areas.

Prerequisite: The foundation is ready, cables come out of the foundation hole and are cut to the minimum length.

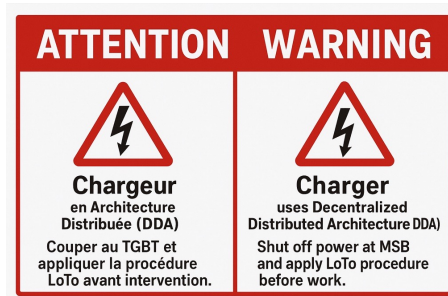
Prerequisite: Wear your Personal Protection Equipment and keep them during the entire procedure.

Protective gloves	High visibility	Safety footwear	Eyes protection
			

7.1 Main Low Voltage Panel disconnection

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, unless specified in the maintenance instructions.
- Do not install a charging station that is faulty or has a noticeable defect or deficiency.



7.1.1 LO-TO-TO procedure (Lock Out, Tag Out, Try Out)

7.1.1.1 Energy source isolation

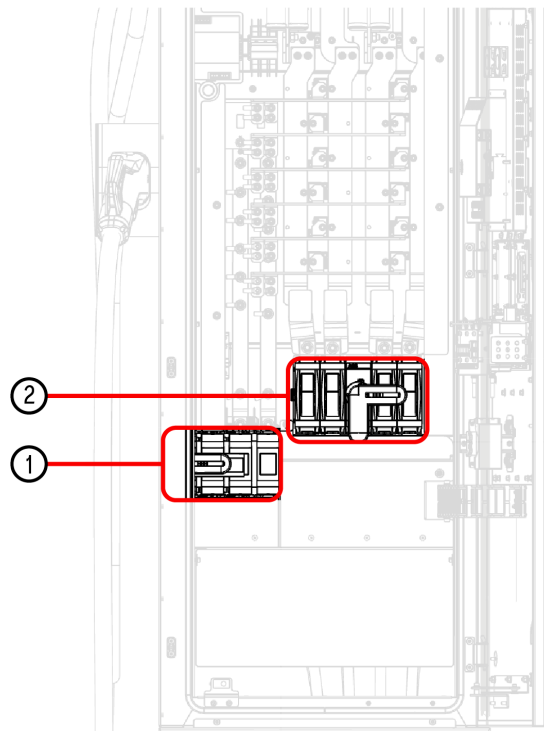
1. Depending on the configuration, switch off the main circuit breaker or switch disconnector in the Main Low Voltage Panel.

Danger: Do not switch back on the Main Low Voltage Panel until the end of the maintenance / installation procedure.

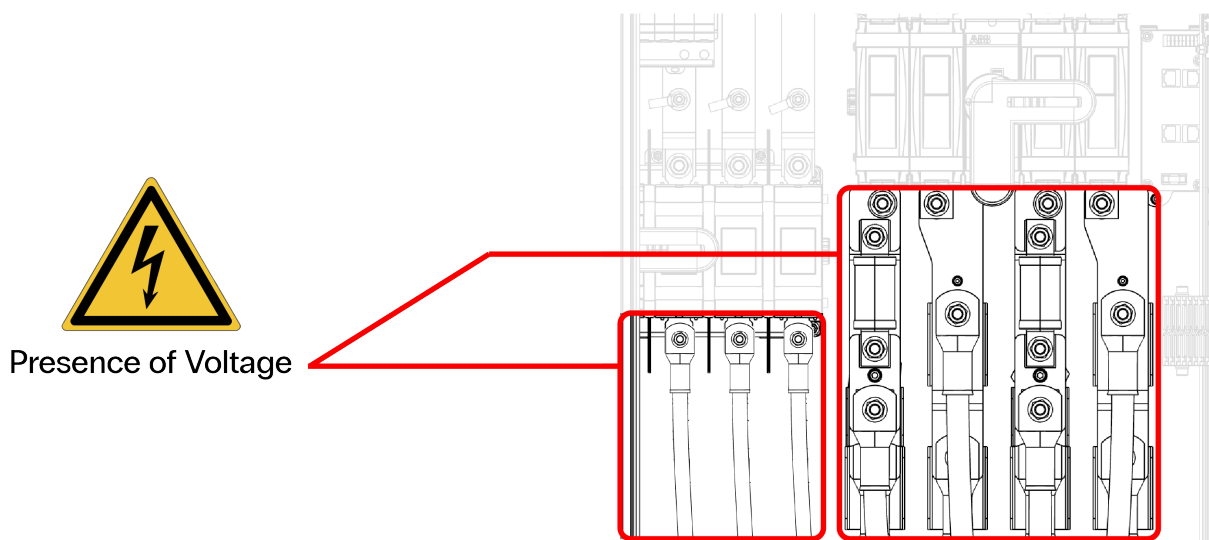
7. Installing the charging station

Danger: Switch off the Main Low Voltage Panel before performing any installation or maintenance work on a EVBox charging station. Please refer to Chapter 7.1, Main Low Voltage Panel disconnection, page 37

Danger: If, for any reason, you cannot switch off the Main Low Voltage Panel, **you must absolutely isolate both AC circuit and DC circuit** by opening the main AC switch disconnecter and the DC switch disconnecter of the charging station you need to work on.
In this case, there is still voltage presence inside the charging station, upstream switch disconnectors.



1	AC switch disconnecter
2	DC switch disconnecter



Presence of voltage upstream if Main Low Voltage Panel is not disconnected

7.1.1.2 Apply lock and tag devices

1. Depending on the configuration, lock the main circuit breaker or switch disconnecter with a lockout device.

Note: The employee who applies a lock must keep the key to that specific lockout device.

2. Apply a tag to the lockout device in addition to a lock.

Note: Tags must be attached as close as possible to the same point as where a lock would have been applied.



Example of lockout device and associated tag

Danger: Do not remove tags and locks until the end of the maintenance / installation procedure.

7.1.1.3 Verify the absence of voltage

Warning : Hazardous voltages Electrical charge may be stored for up to 5 min after switching off. Discharge and make sure it is voltage free.

1. If possible verify the absence of voltage in the charging station.

Measurement points	Voltage
L1/L2	0VAC
L1/L3	0VAC
L2/L3	0VAC
L1/PE	0VAC
L2/PE	0VAC
L3/PE	0VAC

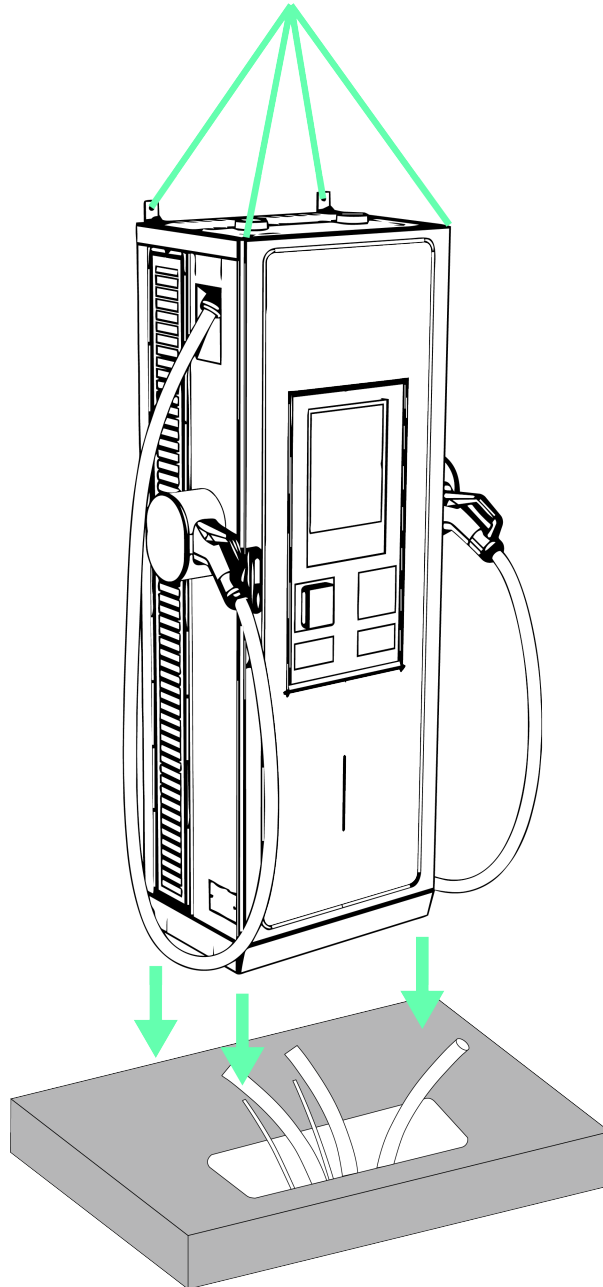
7.2 Placing the charging station



Prerequisite: Make sure the charging station is disconnected from the Main Low Voltage Panel and that you have followed LO-TO-TO procedure.

With a forklift or a crane, position the charging station above the foundation. Please refer to Chapter 5, Charging station handling, page 21.

1. With the forklift or the crane, lower the charging station and position it on the foundation.

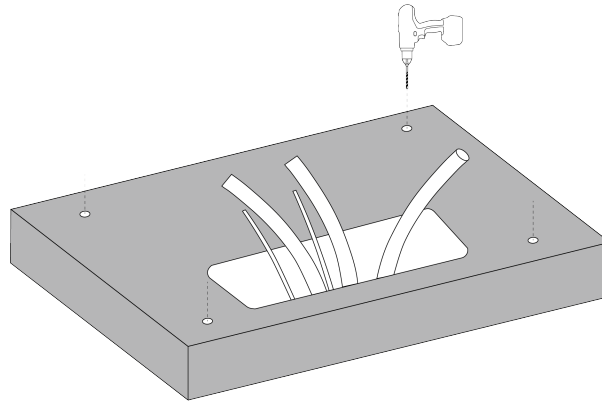


Note: The power input AC cables must pass through the bottom opening, and the bottom opening must be aligned with the hole for cable pathway in the foundation.

Note: Make sure the charging station is level.

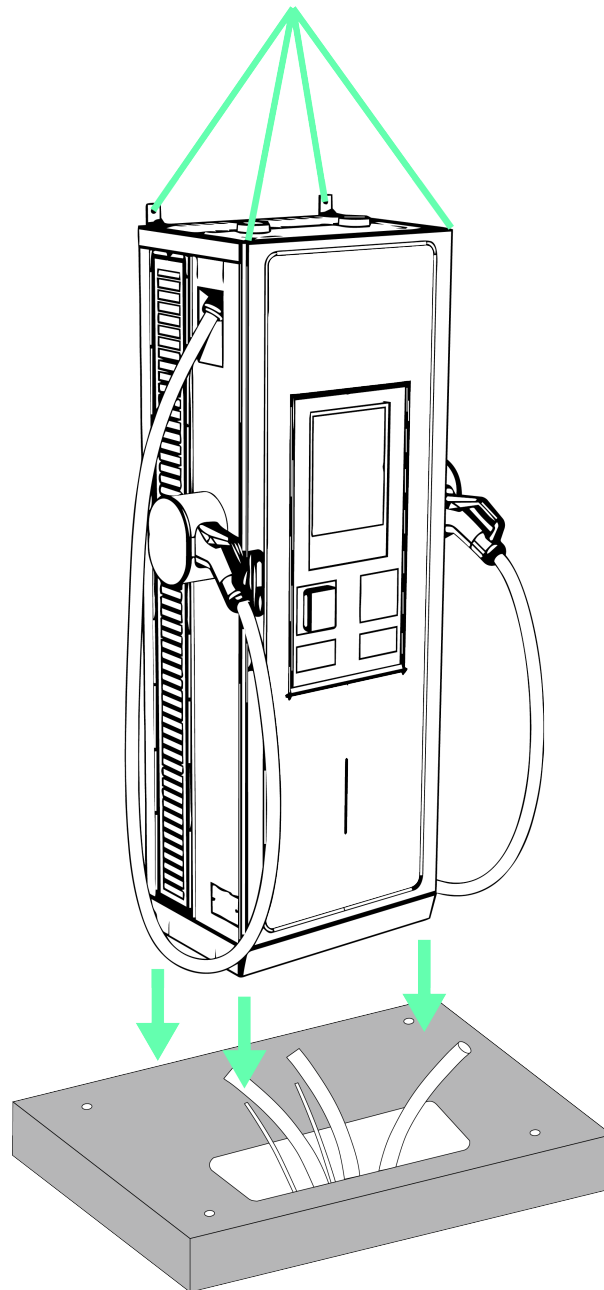
Note: If you have installed the optional anchor foundation mounting kit, you can ignore steps 3 to 7 and directly tighten the x4 M12 nuts at step 8.

3. Mark the positions for the x4 anchor bolts.
4. Lift-up again and remove the charging station.
5. Drill the x4 holes with 12mm concrete drill bit



6. With the forklift or the crane, position again the charging station on its foundation.

7. Installing the charging station



7. Insert the x4 anchor bolts.
8. Tighten the M12 nuts on the anchor bolts to fix and secure the charging station. Tighten the 4 nuts according to the specified torque of the anchors bolts and nuts. The maximum torque must be between 40 and 50Nm.
9. Make sure that the charging station is stable.

Note: A mark shall be made on each nut with the technical marker after tightening.

7.3 Bottom plate installation



Prerequisite: Make sure the charging station is disconnected from the Main Low Voltage Panel and that you have followed LO-TO-TO procedure.

Prerequisite: The charging station is anchored to the ground.

Note: The bottom plates are shipped in a separate box, included with the charging station.

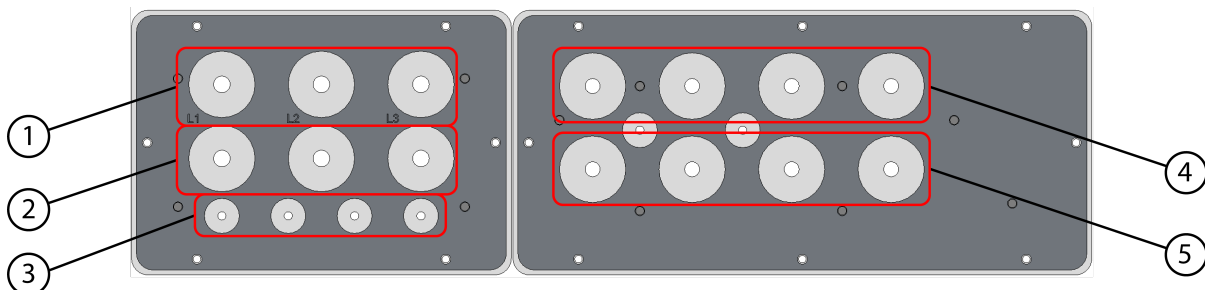
Warning: You have to use the bottom plate to secure the cables coming from the ground.

Warning: Do not, in any case, cut, alter, deform the bottom plate. Make sure not to cut, deform or alter the silicone part of the bottom plate with metallic or any sharp tool.

Warning: Do not, in any case, use expansive foam around the cables and inside the charging station.

Note: Any alteration on the bottom plate or use of expansive foam may invalidate the warranty.

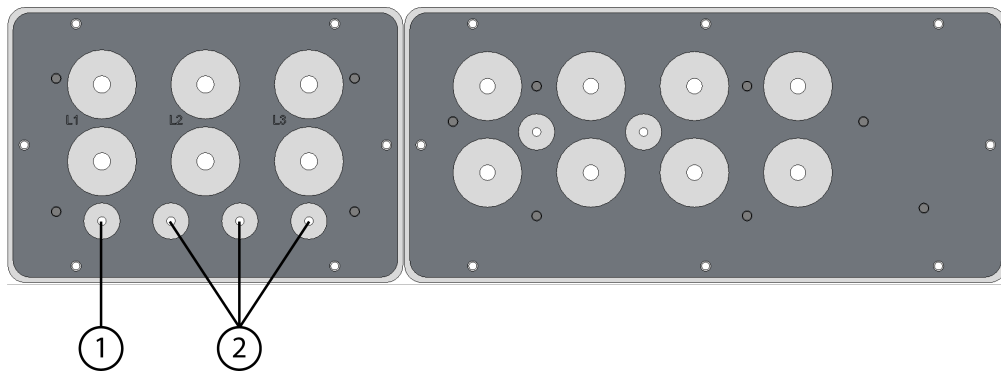
Note: The bottom plate on the left is used in DDA configuration. If your setup is not in DDA configuration, left bottom plate is only used to seal the bottom of the charging station.



Troniq Compact Modular bottom plate, view from front door

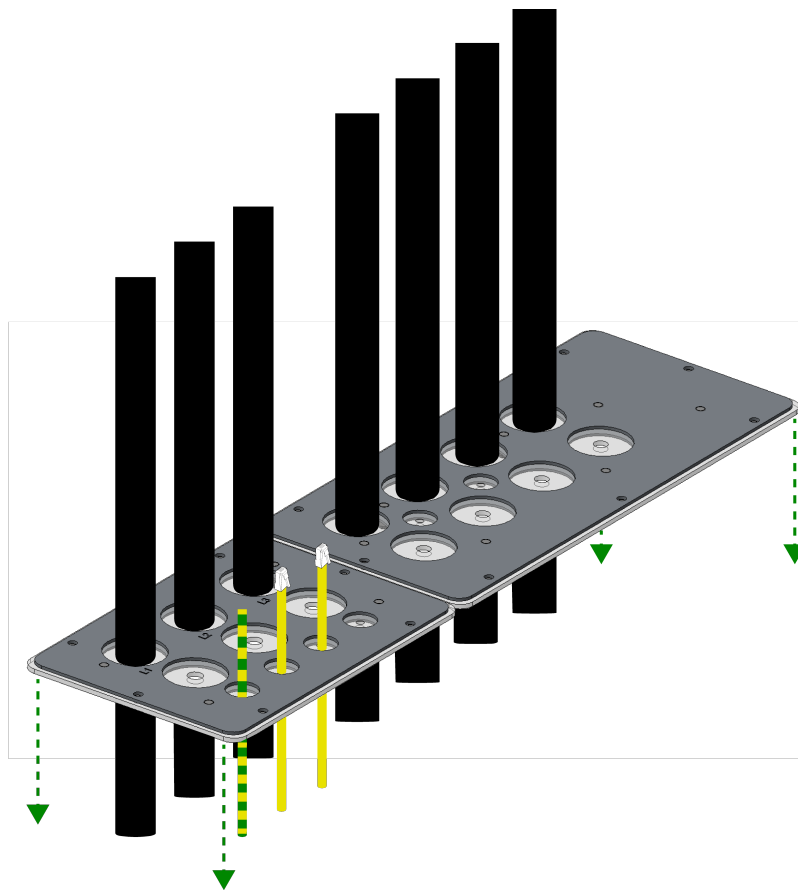
1	AC power input (L1, L2, L3)
2	AC power output (L1, L2, L3)
3	Protective earth cable, Ethernet cables and spares
4	DC power input (DC+ left, DC- left, DC+ right, DC- right)
5	DC power output (DC+ left, DC- left, DC+ right, DC- right)

7. Installing the charging station

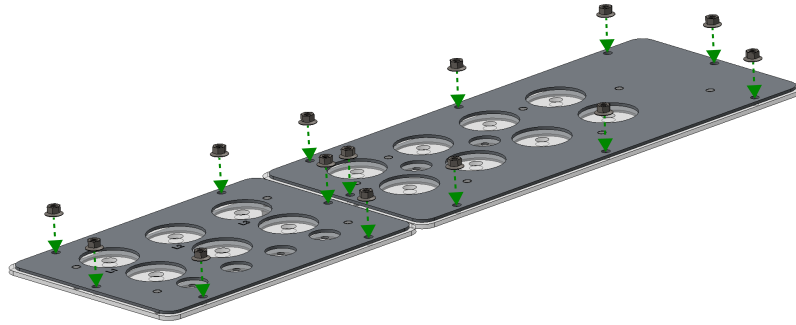


1	Protective earth cable
2	Ethernet cables and spare

1. Pass the cables through the bottom plate

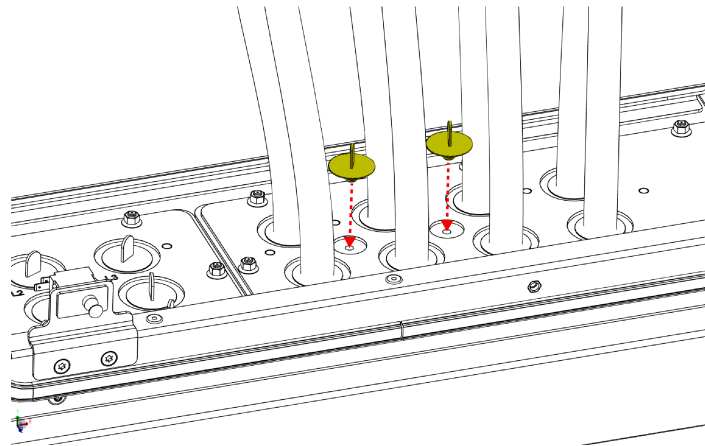


2. After you passed all the cables through the bottom plate, tighten the x14 M5 nuts at 4Nm.



Note: A mark shall be made on each nut with the technical marker after tightening.

3. Insert provided plugs in unused holes of the bottom plate.





7.4 Charging Station Cabling



Prerequisite: Make sure the charging station is disconnected from the Main Low Voltage Panel and that you have followed LO-TO-TO procedure.

Prerequisite: You have installed the bottom plate of the charging station.

Prerequisite: Wear your Personal Protection Equipment and keep them during the entire procedure.

Protective gloves	High visibility	Safety footwear	Eyes protection
			


7.4.1 Connecting Protective Earth

1. Connect Protective Earth cable to the Protective Earth connection plate. Follow the detailed instructions Chapter 6.10.3, Protective earth instructions, page 34.

7.4.2 Connecting AC cables



Prerequisite: AC switch disconnecter and DC switch disconnecter are in **OFF position**. Please refer to Chapter 1, Isolating the from AC & DC network, page 1.

Recommended conductor	Terminal	Terminal diameter	Maximum terminal width	Tightening torque	
Extra flexible multicore	Ring cable lug	M10	39mm	45Nm	16mm

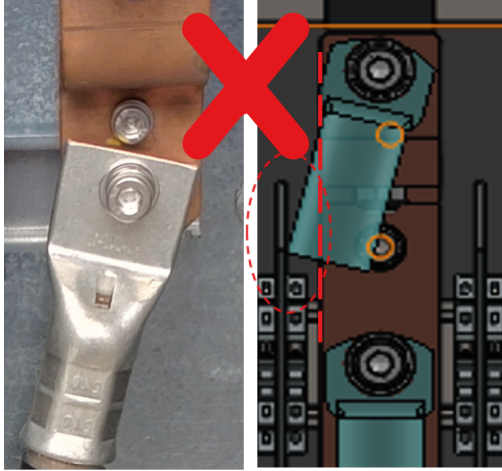
1. Cut the AC cables to the appropriate length. Please refer to Chapter 6.9.2, Cables minimum length, page 32
2. Insert the lugs at the end of the AC cables
3. Using appropriate **M10 lugs** and **M10 nuts**, screw the AC cables to the copper busbar
4. Tighten each connection at **45Nm**.

Note: A mark shall be made on each nut with the technical marker after tightening.

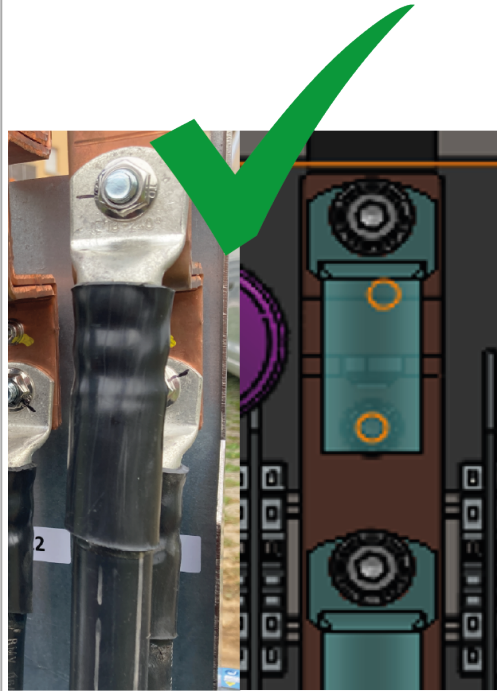
Warning: Check that the nuts are correctly inserted inside the threaded stud. If a nut is incorrectly screwed on the stud, the tightening torque may be correct, but the AC/DC cable can be loose.

Warning: Loose AC or DC electric connections may cause electrical fire.

Danger: Make sure that the cables are correctly aligned. The non-insulated part of the terminals must not extend beyond the edges of the bus-bar.



Wrong lug orientation



Good lug orientation

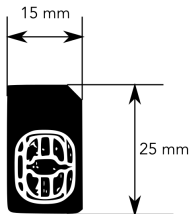
7.5 Network connections

Caution: Cyber security protection of the charging station is critical. For more information on how to properly configure network settings of the charging station, please consult the EVBox DC products software user guide on the [EVBox Partner portal](#).

7.5.1 SIM card installation

The following SIM card requirements must be respected:

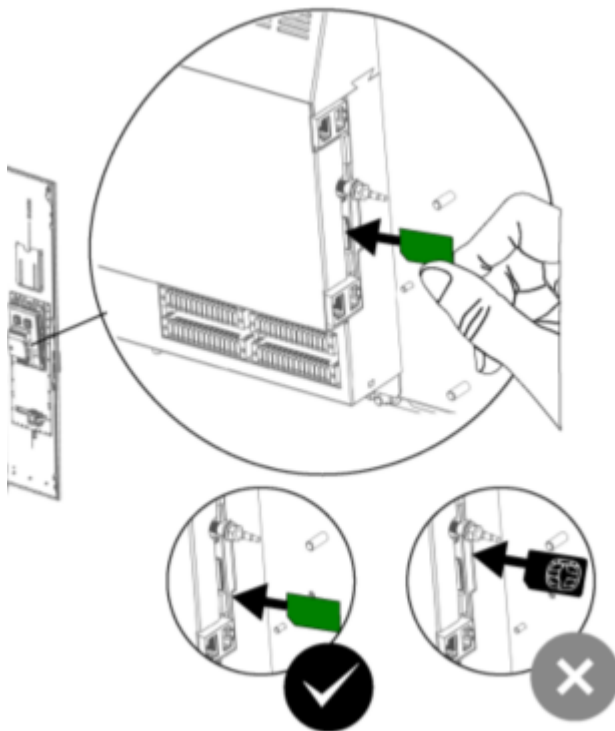
- Mini size SIM card (2FF)



- Do not use a 3-in-1 style SIM card

To install the SIM card, do the following:

1. Open the front door.
2. Insert the SIM card.



7.5.2 Payment terminal - Payter, apollo: Battery & Activation

Note: This chapter only applies in a configuration with Payter, apollo as payment terminal.

Apollo devices have two batteries required to protect the financial algorithm for the PCI PTS Tamper protection regulation (Payment Card Industry – PIN Transaction Security). More information available on Payter website : [Apollo Family - Batteries & Shelf Life | Payter documentation](#).

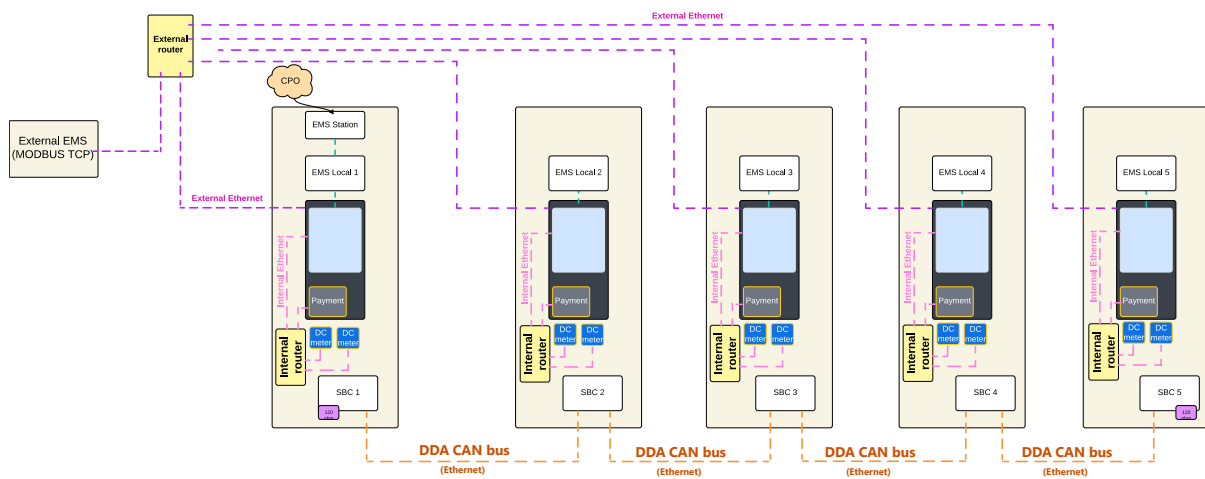
To preserve their autonomy during prolonged storage, we recommend recharging the terminals **every 2 to 3 months**, thus maintaining battery life almost indefinitely.

Without any charge, we recommend to limit the **storage of our product to 12 months maximum** after the delivery.

Please refer to the Payter apollo Technical note: "How to maintain Payter Apollo batteries shelf life". All related documents to Troniq Compact Modular's installation can be found in Chapter 1.3, Related documents, page 5
All related documents to Troniq High Power Modular's installation can be found in Chapter 1.3, Related documents, page 5

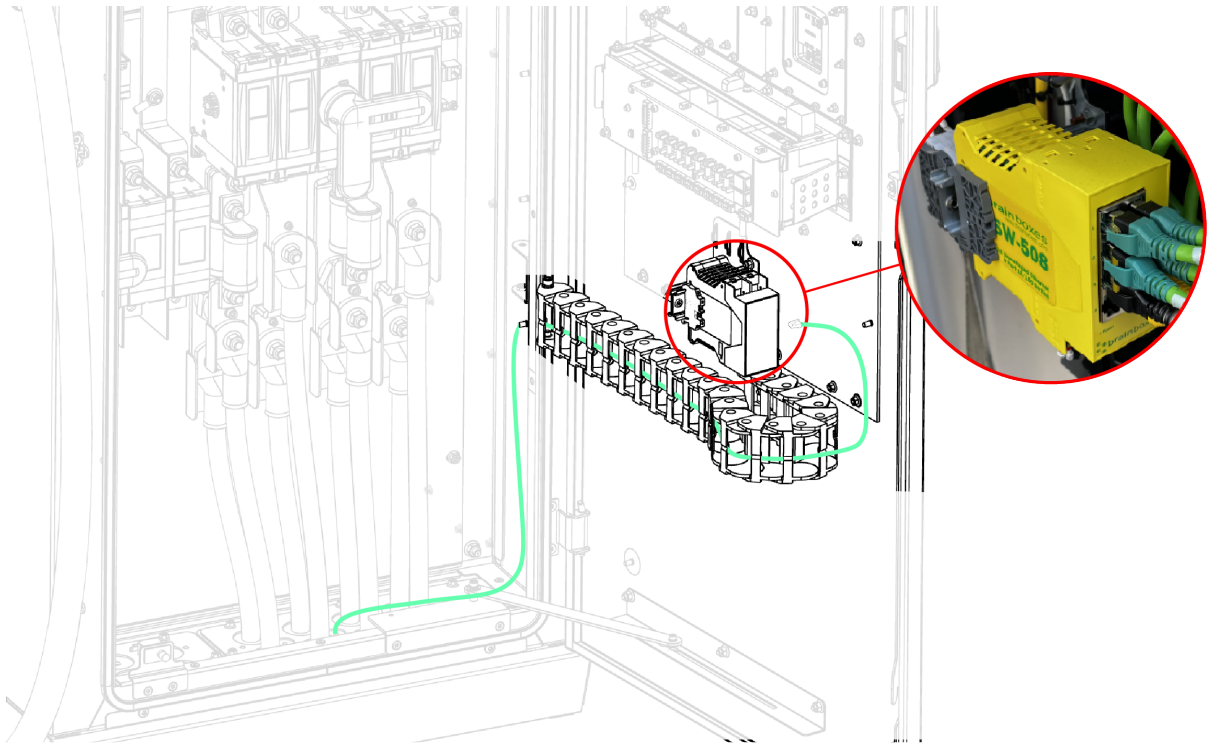
7.5.3 Connecting Ethernet Network

Note: Depending on the configuration, it is possible to share GSM Modem connection between several Troniq Compact Modular charging stations.



1. Follow the pathway below and connect then RJ45 connector in the yellow Ethernet switch.

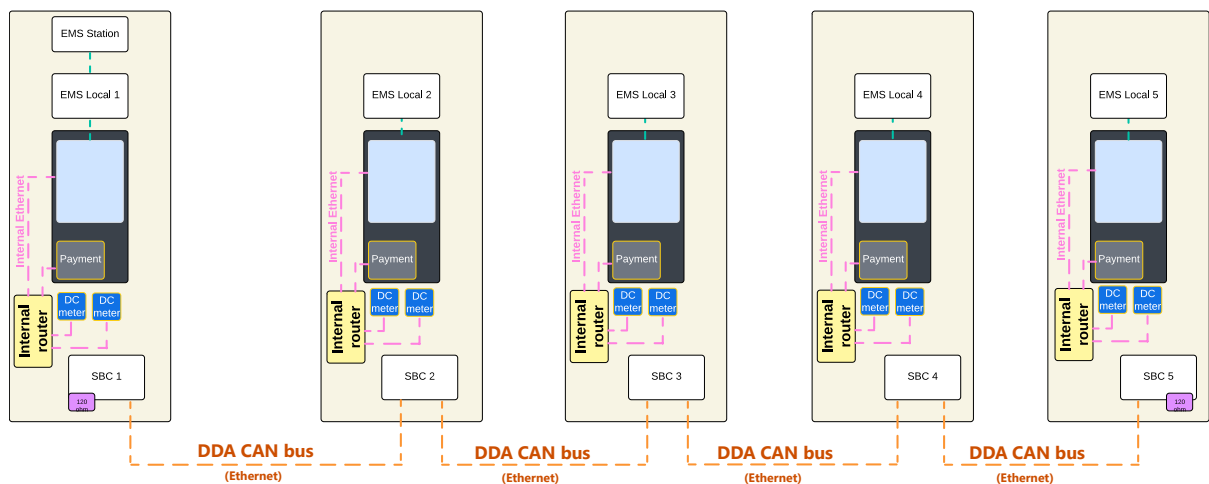
7. Installing the charging station



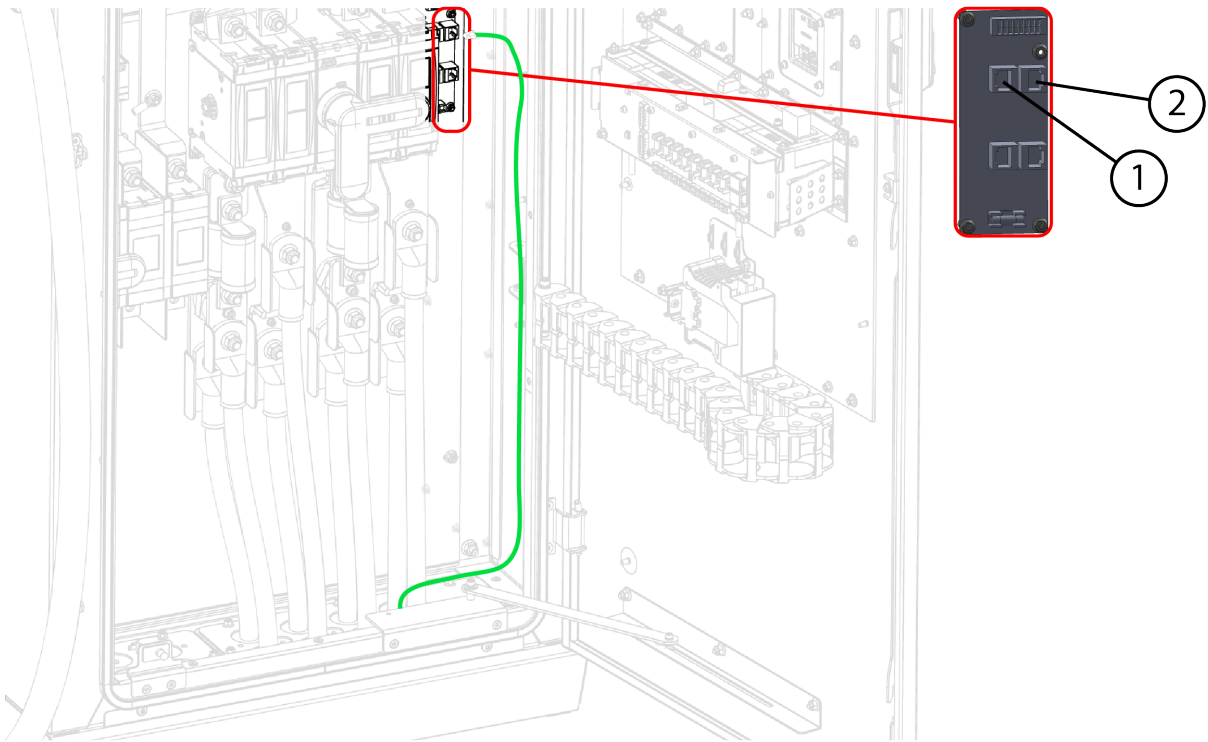
Note: if you have more than x2 charging stations connected together, you should have x1 Ethernet cable coming from the previous charging station and x1 Ethernet cable going to the next charging station.

7.5.4 Connecting Ethernet CAN BUS network for DDA

Note: In a Decentralized Distributed Architecture, a CAN BUS network is necessary to connect charging stations together and manage DC power sharing.



1. Following the order of the DC chaining, connect the Ethernet cable coming from the previous charging station to the connector #1.
2. Following the order of the DC chaining, connect the Ethernet cable going to the next charging station to the connector #2.



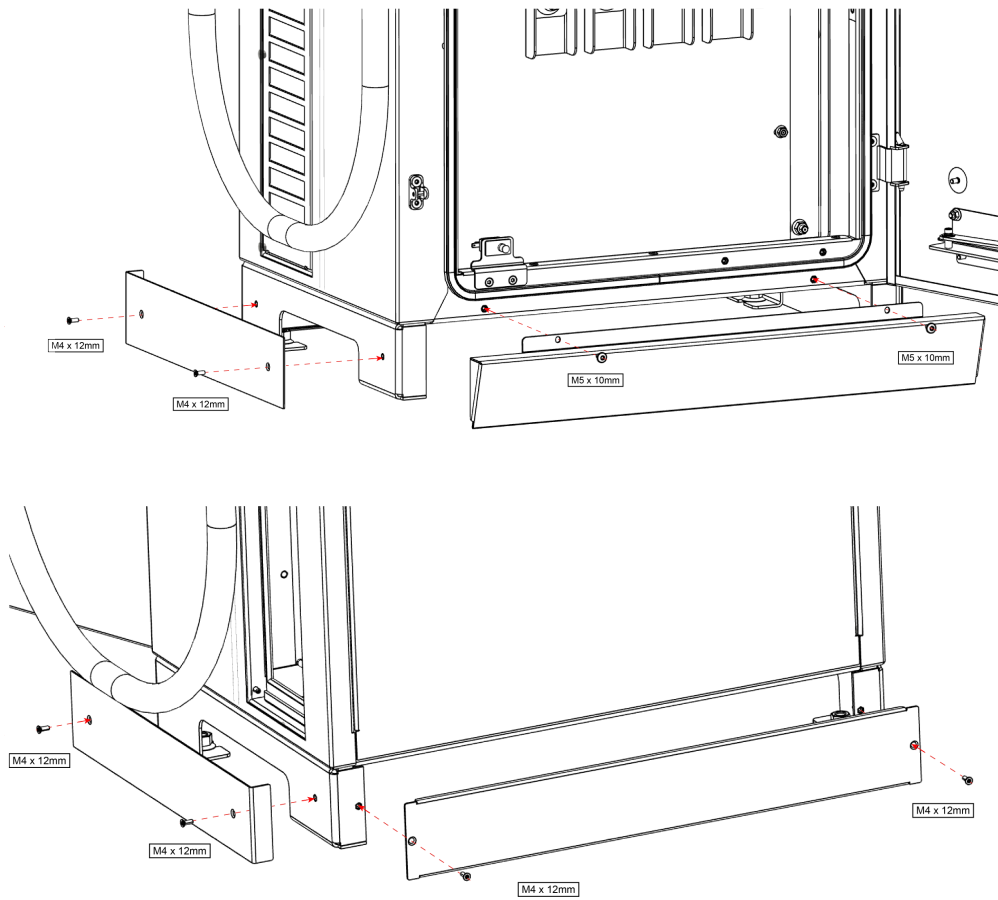
3. Insert a RJ45 plug with terminating resistor 120Ω in the unused connector.

Note: In total, you need to insert x2 RJ45 plugs, one in the first charging station and one in the last charging station of the chain.

7. Installing the charging station

7.6 Install entry sealing plates

1. Put back the front plate and tighten the x2 M5x10mm screws.
2. Put back the other plates and tighten the x6 M4x12mm screws.



8. Preventive maintenance

The importance of Maintenance

For safe operation of the charging station and to ensure a continuous and adequate level of service for users, regular maintenance and control of the equipment is required.

Caution: If preventive maintenance is not performed on the charging station, the warranty will be void. Preventive maintenance reports will be requested upon warranty claim.

In addition to these regular maintenance operations, in the case of a fault or suspected fault, a corrective maintenance operation must be performed.

These maintenance operations are described:

- In the preventive maintenance plan attached to this document (see Chapter 11.3, Preventive maintenance plan, page 59).
- In the maintenance manual and its annexes.



This documentation as well as the complementary technical notes and software updates are regularly published and must be followed. The actions concerned must be performed by an EVBox-approved service provider.

The owner of the charging station is responsible for the condition of the charging station, and the laws concerning the safety of persons, animals, and property must be followed, 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.

9. Installation and Commissioning reports

9.1 Installation report

At the end of the installation, to make sure the installation has been correctly done, you must complete the installation report.

Digital Reporting	
Web version	APP version
	
https://form.jotform.com/250893652779070	https://eu.jotform.com/app/250974556351362

9.2 Commissioning

Prerequisite: Before commissioning, make sure you have completed the installation report.

Note: The charging station needs to be properly assembled in accordance with the assembly instructions.

Danger: Before commissioning the charging station check that DC cabling is correctly done: Refer to Chapter 1, DDA Connections on EVBox stations, page 1.

Danger: Before commissioning the charging station check that AC cabling is correctly done: Refer Chapter 1, AC Cabling, page 1.

Danger: Risk of electric shock.
Even if the AC switch disconnecter is OFF, power supply is still present on the charging station. Before servicing, switch off the power at the Main Low Voltage Panel.

Danger: *For Troniq High Power Modular, Troniq Ultra High Power Modular and Troniq Modular:* the heater is supplied by the Main Low Voltage Panel or by an independent power supply. Before servicing, switch off the power supply of the heater.

Warning: Hazardous voltages
Before servicing:

- Electrical charge may be stored for up to 5 minutes after switching off.
- Discharge and make sure it is voltage-free.

Warning: Before commissioning the charging station, DC cabling and tightening torques on DC connections lugs must be verified.

9.2.1 Commissioning report

Before starting and using the charging station, you must first complete the commissioning report:

Digital Reporting	
Web version	APP version
	
https://form.jotform.com/250893652779070	https://eu.jotform.com/app/250974556351362

10.1 Decommissioning

Remove and dispose of the charging station in accordance with applicable federal, state or province, and local disposal regulations.



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

- Only a qualified electrician is permitted to install, service, repair, or relocate the charging station.
- The user must not attempt to service or repair the charging station as it does not contain user-serviceable parts.
- State or province and local regulations may be applicable and may vary depending on your place of residence or country of use. A qualified electrician must always ensure that the charging station is installed, serviced, repaired, relocated, and decommissioned according to the applicable state or province and local regulations.

Before the charging station is removed, switch off all power at the power supply cabinet. Secure the power supply cabinet and put up warning signs to prevent accidental supply of power.

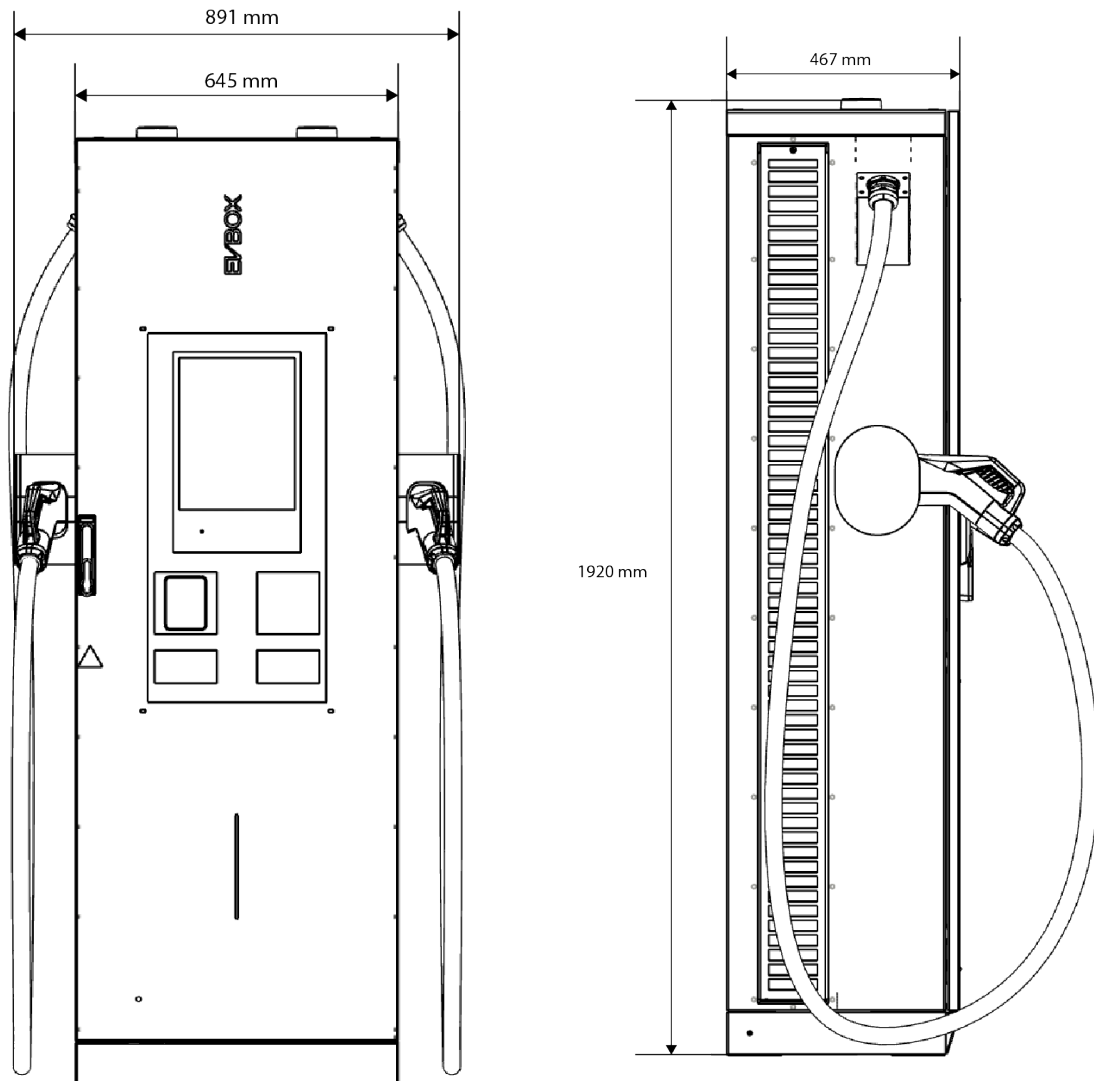
To remove the charging station, follow the installation steps listed above in reverse order (see Chapter 7, Installing the charging station, page 37).

Dispose of the charging station in a responsible manner.

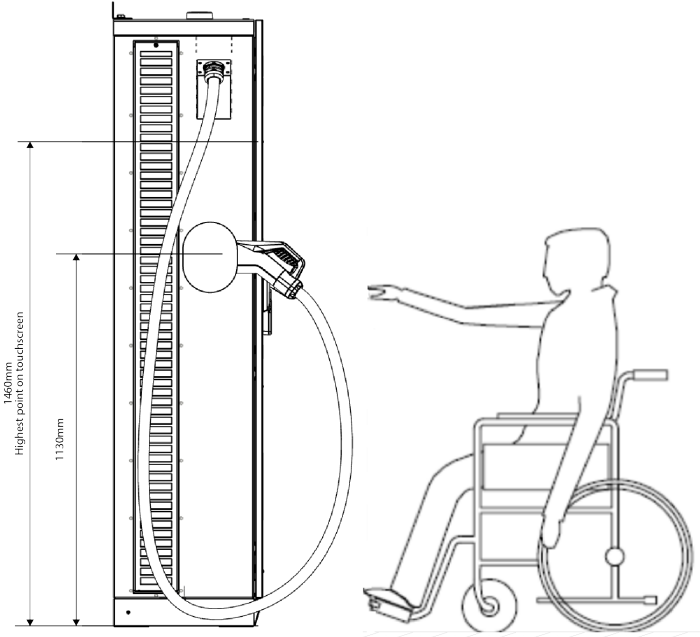
	<p>Do not dispose of this charging station in household waste. Instead, dispose of this charging station at a local collection point for electric/electronic devices in order to enable recycling and thus avoid negative and hazardous environmental impact. Ask your city or local authorities for the address of your local facility.</p>
	<p>Recycling materials saves raw materials and energy, making a major contribution to conservation of the environment.</p>

11. Appendix

11.1 EVBox Troniq Compact Modular - Dimensions



11.2 Access for People with Reduced Mobility (PRM)



11.3 Preventive maintenance plan

Inspection and maintenance plan for standard environment ¹							
Module	Frequency	(months)	12	24	36	48	60
Charger body	Body level alignment		○	○	○	○	○
	Charger body		○	○	○	○	○
	Body panel corrosion		○	○	○	○	○
	Touchscreen outer face		○	○	○	○	○
	Payter payment terminal outer face ²		○	○	○	○	○
	CCS/CHAdeMO	Cable	○	○	○	○	○
		Face connector	○	○	◇ ⁴	○	○
	Foam filters IN		○○◇	○○◇	○○◇	○○◇	○○◇
	Foam filters OUT		○○◇	○○◇	○○◇	○○◇	○○◇
	Cables (cable ducts, connectors, rust, heating)		○	○	○	○	○
Fans		○	○	○	○	○	
Input box	Surge arrestor / Main AC switch disconnecter		○●	○●	○●	○●	○●
	Earth / Ground resistance		³ ○	³ ○	³ ○	³ ○	³ ○
	24 Vcd Power supply		●	●	●	●	●
	24 Vdc terminal blocks		○●	○●	○●	○●	○●

Inspection and maintenance plan for standard environment ¹							
Module	Frequency	(months)	12	24	36	48	60
Switchgear	Switchgear power terminals		●	●	●	●	●
	Switchgear contactors		●	●	●	●	●
Output box	DC output cable terminals		●	●	●	●	●
	Output box contactors		●	●	●	●	●
	DC fuse		●	●	●	●	●
HMI	Display screen		○	○	○	○	○
	Fan of SUCCESS screen (backside display)		○	○	○	○	○
	Checking updates for software version		○	○	○	○	○
	Availability of cellular network		○	○	○	○	○
	Payment terminal ²		○	○	○	○	○
	DC meter display ²		○	○	○	○	○

- : Check or clean
- ◇: Replace or repair
- : Visual inspection of tightening torque

Note: Maintenance cycle restarts after 60 months.

¹Standard environment:

- > 2 km from coastal environment
- Standard solar conditions (< 2100 kWh/m²)
- Mechanically active substances: equivalent to 4S13 (according to IEC 60721-3-4 conditions)

²Depend on the product and/or options.

³Earth/Ground resistance value: < 20 Ω for Europe

Inspection and maintenance plan for severe environment ¹													
Module	Frequency	(months)	6	12	18	24	30	36	42	48	54	60	
Charger body	Body level alignment			○		○		○		○		○	
	Charger body		○	○	○	○	○	○	○	○	○	○	
	Body panel corrosion		○	○	○	○	○	○	○	○	○	○	
	Touchscreen outer face		○	○	○	○	○	○	○	○	○	○	
	Payter payment terminal outer face ²		○	○	○	○	○	○	○	○	○	○	
	CCS/CHAdeMO	Cable	○	○	○	○	○	○	○	○	○	○	○
		Face connector	○	○	○	○	○	◇	○	○	○	○	○
	CHAdeMO / CCS cable retriever			○●		○●		○●		○●		○●	
	Foam filters IN		◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇
	Foam filters OUT ²		◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇	◇◇
	Cables (cable ducts, connectors, rust, heating)		○	○	○	○	○	○	○	○	○	○	○
Fans		○	○	○	○	○	○	○	○	○	○	○	
Input box	Surge arrester / Main AC switch disconnecter			○●		○●		○●		○●		○●	
	Earth / Ground resistance			3 ○		3 ○		3 ○		3 ○		3 ○	
	24 Vcd Power supply			●		●		●		●		●	
	24 Vdc terminal blocks			○●		○●		○●		○●		○●	

Inspection and maintenance plan for severe environment ¹												
Module	Frequency	(months)	6	12	18	24	30	36	42	48	54	60
Switchgear	Switchgear power terminals			●		●		●		●		●
	Switchgear contactors			●		●		●		●		●
Output box	DC output cable terminals			●		●		●		●		●
	Output box contactors			●		●		●		●		●
	DC fuse			●		●		●		●		●
HMI	Display screen			○		○		○		○		○
	Fan of SUCCESS screen (back-side display)			○		○		○		○		○
	Checking updates for software version			○		○		○		○		○
	Availability of cellular network			○		○		○		○		○
	Payment terminal ²	○	○	○	○	○	○	○	○	○	○	○
	DC meter display ²			○		○		○		○		○

○: Check or clean
 ◇: Replace or repair
 ●: Visual inspection of tightening torque

Note: Maintenance cycle restarts after 60 months.

¹Severe environment:

- < 2 km from coastal environment
- High solar conditions (>2100 kWh/m²)
- Mechanically active substances: equivalent to 4S13 (according to IEC 60721-3-4 conditions)

²Depend on the product and/or options.

³Earth/Ground resistance value: < 20 Ohm for Europe

