

Built for a lifetime.

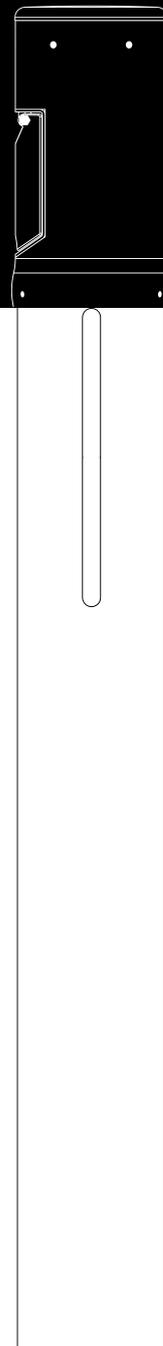
astreea®

ENG

Installation Guide

Charger - Single socket Model

Model ACS111/EAN 6426495302070





Scan for:
Official Website



Before you start:

1. We recommend **three people** for this operation
2. Time needed: **up to 8 hours**
3. **Retain this Guide** for future reference
4. These **cards** that you will find in the Guide are very important. Please give them your **attention**.

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Eagle River Alaska 99577 www.us.astreea.com

Please call our customer service
US & Canada: (907) 931-4469 (English and French)
or contact email address at: info@us.astreea.com
CUSTOMER SERVICE HOURS ARE: 9.00 AM - 4.00 PM MONDAY - FRIDAY EST.

Summary

Installation and operating instructions

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1. Safety instructions

To ensure proper installation and safe operation, follow the safety instructions given in this manual. Improper handling or non-compliance with the safety instructions may result in damage to the device itself, serious injury, fire or death.

It is also advisable to ensure that every user of the charging unit has access to content-related aspects about operation and in particular to safety instructions.

The installation, commissioning and maintenance of the Astreea® Charger may only be carried out by a qualified electrician. The operation of the loading unit may only be carried out after a technically perfect installation with subsequent acceptance.

Faults and repairs that lead to damage to persons, to the device itself or other consumers may only be carried out by qualified specialist personnel.

In case of malfunctions and malfunctions due to a faulty installation, first contact the company that carried out the installation. If the problem persists, contact us at: service@astreea.com.

Warning

The Astreea® Charger should only be installed by qualified personnel.

Please refer to the respective chapters for the respective assembly steps. Make sure that the supply line is de-energized at the time of the assembly!

- Read the operating manual before starting up the charging system.
- Ensure that all persons working on or using this charging system have read the operating manual, follow the regulations and instructions for working without risk.
- Keep the equipment documentation at a location where it is always accessible to the operators of the charging system.
- Ensure that no unauthorized persons can access the charging system.

Liability

Astreea® assumes no liability for the following cases in the event of personal injury or property damage:

- **Disregard of the installation and operating instructions;**
- **Installation of unqualified technical personnel;**
- **Structural alterations to the charging station;**
- **Configuration changes of the charge controller;**
- **Improper handling;**
- **Use of unauthorized spare parts or accessories.**

Note

Important information and special features.
Avoid a confusing installation location to prevent unnecessary damage to the charging station.

While selecting the location of the Charger, remember to avoid a possible knock down of the Charger.

If necessary, set up a collision protection. Also avoid placement near entry and exit points.

Set up the charging station so that the use of rescue vehicles is not restricted.

Intended use

The charging system is intended for use in private and semiprivate areas, e.g. private properties, corporate parking areas, or depots.

Do not use the charging system where explosive or combustible substances (e.g. gases, liquids, or dusts) are stored or are present.

The charging system is intended exclusively for charging electric vehicles.

- Charging in accordance with type 3 of IEC 61851-1
- Socket connectors in accordance with IEC 62196-2
- The charging system is intended for use only in TT, and TN-C-S networks.

The charging system is not suitable for charging vehicles with outgassing batteries (e.g. leadacid batteries).

The charging system is operated as an individual station without a superordinate control system.

The charging system is intended exclusively for stationary installation. The charging system may only be operated and used by persons who have read the operating manual.

The electrical installation, start-up, and maintenance of the charging system may only be performed by qualified electricians who have been correspondingly authorized by the operator.

The qualified electricians must have read and understood the equipment documentation and must comply with its instructions.



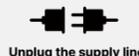
DANGER ! Safety note on a hazard with electrical voltage. Pay attention to a proper installation. Non-observance of the requirements leads to a danger with electric voltage.

The Astreea® Charger is for outdoor and indoor use designed.

For the installation of the loading unit, regulations regarding the location of installation must be ensured. Only in this way safe operation can be guaranteed.

The following requirements must be met:

- No installation in vulnerable areas with a high risk of flooding.
- No installation in vulnerable areas with a risk of explosion.
- Enough distance to other technical equipment.
- Select installation location so that the charging station can be reached easily with the parked vehicle (charging cable must not be strained during charging operation!).
- No direct spray of water.
- Ambient temperature between -30 °C and 50 °C.
- For installation of low-voltage systems, the specifications IEC 60364-1 and IEC 60364-5-52 must comply.
- In order to withstand mechanical stress, the mounting surface must be designed with sufficient strength.
- Make sure that the power supply is sufficiently dimensioned. Note that the sizing does not exceed the slot of the cable routing of the socket.



Unplug the supply line



DANGER !

Make sure that the supply line is de-energized at the time of the creation of the foundation.

Failure to observe the safety instructions can lead to a risk of death due to electrical voltage.

1. Qualification of electricians

Knowledge of and compliance with the 5 safety rules for working with electrical installations:

- isolate.
- secure against reactivation.
- check absence of voltage.
- ground and short-circuit.
- cover or block off live parts in the vicinity. Reactivation is carried out in reverse order.

When installing and handling the charging system, the user, the operator, and the electrician must comply with the national regulations on safety and accident prevention.

Improper use and noncompliance with the operating manual **may jeopardize:**

- your life
- your health
- charging system and vehicle.

Pacemakers or ICDs

Notes for people with a pacemaker (PM) or implantable cardioverter defibrillator (ICD):

Charging systems from Astreea® that are operated as intended, comply with the European guideline on electromagnetic compatibility regarding radiated interference.

Should people with a pacemaker (PM) or implantable cardioverter defibrillator (ICD) wish to conduct activities on charging systems and their devices in the intended manner, Astreea® is not in a position to make any statement regarding the suitability of such medial devices. Astreea® is not able to assess the pacemakers or concerned implantable cardioverter defibrillators with regard to their susceptibility to electromagnetic radiation. This is something that only the manufacturers of the pacemaker or implantable cardioverter defibrillator can do.

Astreea® therefore recommends only allowing the people in question to work on its charging systems after consultation with the manufacturer of the pacemaker/defibrillator and the relevant insurance company. Ensure at all times that no health or safety risks are involved.

Installation and tests

Information for selecting protective devices for basic and fault protection against touching directly or indirectly:

- **Electrical circuit breakers.** The charging system must be protected with circuit breakers in compliance with the respective national regulations.

This depends, for example, on the required tripping time, internal network resistance, conductor cross-section, conductor lengths, and the preset rating of the charging system.

The short-circuit protection of the conductor must have a characteristic that permits 8-10-fold of the I_{nom} value and must not exceed a maximum nominal current of 32 A, depending on the preset rating of the charging system.

- **Residual-current circuit breaker.** For reasons of personal safety, national regulations may stipulate an upstream RCD with an I_{AN} of 30 mA AC. Choose a suitable RCD that complies with the national regulations. For this, please refer to the comments in the sections DC and AC residual-current detection.

- **DC residual-current detection.** The charging system is equipped with 6 mA DC residualcurrent detection. The charging system switches itself off if there is a residual current that is greater than or equal to 6 mA DC. Details of this are given in the Diagnostics section.

- **AC residual-current detection.** The charging system is equipped with integrated AC residual current detection as a convenience function.

This residual-current detection switches off the charging system, at the latest, if there is a residual current greater than 30 mA AC. Details of this are given in the Diagnostics section. Notwithstanding this convenience function, a short-acting RCD must be connected upstream of the charging system, if necessary. The AC residual-current detection is not a substitute for an RCD.

Safety

Safety devices on the charging system:

- must **not** be removed,
- must **not** be manipulated,
- must **not** be bypassed,
- before each use, it must be checked that the equipment (e.g. housing, connecting line, charging coupler) is undamaged,
- must be repaired or replaced as necessary, in order to preserve the functional properties.

Ensure that:

- safety identifications, e.g. yellow-colored marks, danger signs and safety lights remain easily visible and retain their effectiveness.
- When operating the charging system, do not use any extension cables, cable reels, multisocketpower strips, or travel adapters.
- Do not insert any objects into the charging coupler of the

charging system.

- Protect the socket-outlets and plug-in connections against moisture and water or other liquids
- Do not disconnect the charging coupler from the vehicle during charging.

- When operating the charging system, do not use any extension cables, cable reels, multisocket power strips, or travel adapters.
- Do not insert any objects into the charging coupler of the charging system.
- Protect the socket-outlets and plug-in connections against moisture and water or other liquids
- Do not disconnect the charging coupler from the vehicle during charging.

Astreea® takes responsibility only of the charging system in its delivered condition

Working on the charging system without risk

Before plugging the charging coupler into the vehicle:

- The connecting line of the charging system must be completely unwound.
- Check whether the housing of the charging system, the connecting line, the charging coupler, and the connectors are undamaged.
- Take hold of the plug-in connection of the charging system only on the charging coupler and not on the charging cable.
- Ensure that no one can trip e.g. over the charging cable.

In case of malfunctions or failure of the charging system:

- Disconnect the charging system from the power supply by switching off the respective circuit breaker in the building.

Leave a sign with the name of the person authorized to switch on the circuit breaker.

- Call in a qualified electrician immediately. Electrical devices.
- The housing of the charging system must always be kept closed.

During the charging process:

- Keep unauthorized persons away from the charging system.
- When the charging system is connected, you must not clean or wash the vehicle with a highpressure cleaner because the plug-in connection is not sealed against pressurized water.

Information on initial inspections after installation and repeat inspections

National regulations may stipulate inspections of the charging system before start-up and at regular intervals.

Perform these inspections in accordance with the respective rules and regulations.

Information is given below on how these inspections can be performed.

- **PE conductor test.** After the installation and before switching on for the first time, test the continuity of the PE conductor. For this, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. Measure the resistance of the PE conductor between the PE conductor socket of the adapter and the connection point of the PE conductor in the building's electrical cabinet.

The value of the PE conductor for a total conductor length (connecting line to the charging system and the vehicle charging cable) of up to 5 m must not exceed 300 mΩ. For longer cables, the value can be increased in accordance with the applicable national regulations. In any case, the resistance must not exceed a value of 1 Ω.

- **Insulation test.** Two insulation measurements are required because the charging system is equipped with a disconnecting relay. The charging system must be disconnected from the power supply for this. Therefore, before the measurement, switch off the supply voltage using the circuit breaker in the building's electrical cabinet.



Note!

People with a pacemaker or defibrillator may not work on or stand near the charging systems and their devices, e.g. to perform maintenance operations or rectify any faults.

Installation and tests

1. Measurement of the primary side of the charging system.

Measure the insulation resistance on the primary side of the charging system at the connection point of the power supply line to the charging system in the building's electrical cabinet. The value **must not** exceed 1 MΩ.

2. Measurement of the secondary side of the charging system.

For this, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. Measure the insulation via the measuring sockets on the test adapter. The value **must not** exceed 1 MΩ.

- Alternatively, the differential current method can be used in conjunction with measurement of the PE conductor current. In both cases, the value must not exceed 3.5 mA.

For these measurements, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. The measurements must be carried out with the adapter in the C mode. Measure the differential current at the connection point of the power supply line to the charging system in the building's electrical cabinet.

Tests

• Test of the power-off condition in case of a short-circuit (Z_{L-N}).

For these measurements, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. The measurements must be carried out with the adapter in the C mode.

Carry out the measurements on the measuring sockets of the test adapter. The values must comply with those of the selected circuit breaker.

• Test of the power-off condition in case of a fault (Z_{L-PE}).

For these measurements, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. The measurements must be carried out with the adapter in the C mode.

Carry out the measurements on the measuring sockets of the test adapter with a suitable instrument. The values must comply with those of the selected circuit breaker.

• Test of the integrated DC residual-current detection.

For these measurements, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. The measurements must be carried out with the adapter in the C mode. Carry out the measurements on the measuring sockets of the test adapter with a suitable instrument.

If the residual current is greater than 6 mA DC, the charging system must disconnect the charging coupler from the power supply. The fault indicator on the charging system must be activated.

• Test of the integrated AC residual-current detection.

For these measurements, connect the charging coupler to a test adapter for vehicle simulation in accordance with EN 61581-1. The measurements must be carried out with the adapter in the C mode. Carry out the measurements on the measuring sockets of the test adapter with a suitable instrument.

If the residual current is greater than 30 mA AC, the charging system must disconnect the charging coupler from the power supply. The tripping time must be less than 40 ms.

The fault indicator on the charging system must be activated. If the upstream RCDs are correctly dimensioned, this does not trip.

- **Test of the upstream RCD.** Due to the integrated AC residual-current detection, the upstream RCD must be tested at the connection point of the power supply line to the charging system in the building's electrical cabinet. The RCD must trip in accordance with the national regulations.

Note

The charging process cannot be stopped with the button.

There are 3 ways of stopping the charging process.

Operator control elements

Functions of the LED

The LED indicates the operating state of the charging system. Detailed information on the operating states is given in the operating manual.

Starting the charging process

The charging process starts automatically as soon as the charging coupler is plugged in and the vehicle requests a charging process.

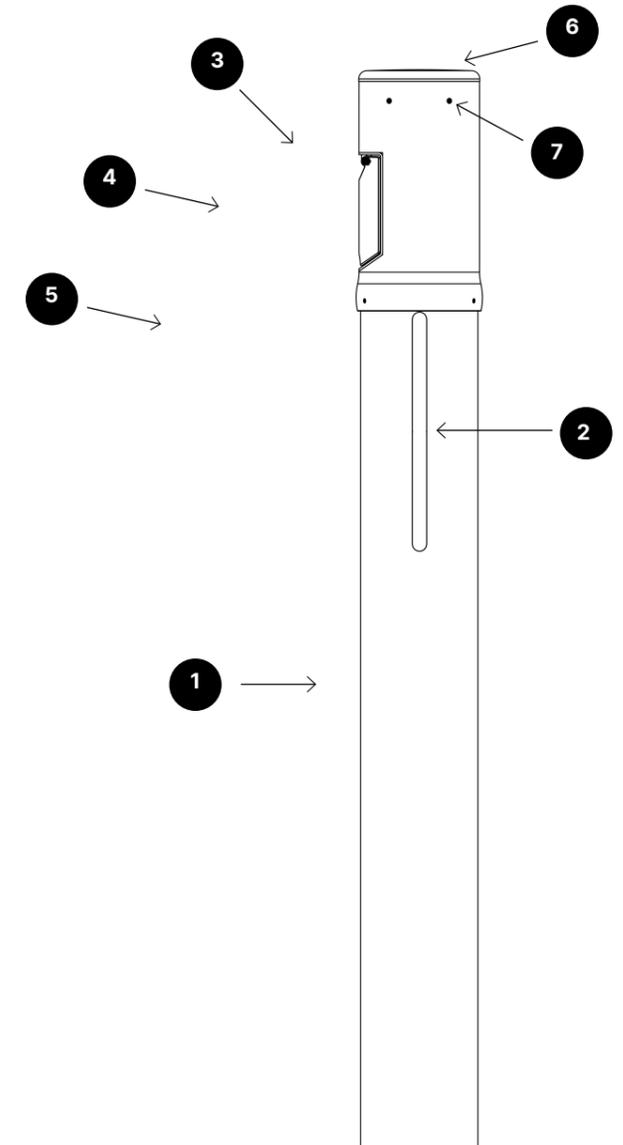
Stopping the charging process

Stop the charging process with the operating controls in the vehicle. Instructions on this are given in the vehicle's operating manual.
or
 Disconnect the charging system from the power supply by switching off the respective circuit breaker in the building.
or
 Use the Astreea® Charger app to stop the charging process.

Protective devices

Structure of Astreea® Charger:

1. Body
2. Status light
3. Protective cover
4. Charging coupler
5. Charging cable
6. Antenna and NFC controller
7. Upper LED status lights



Checking the protective device:

1. Before every charging process, make a visual inspection of the protective devices for damage.
2. Have a qualified electrician make regular electrical function tests in accordance with the national regulations.

Declaration of Conformity

The Declaration of Conformity and the CE marking on the product are valid for the following EU Member States:

- | | | | |
|------------------|-----------|---------------|------------------|
| • Austria | • Estonia | • Italy | • Portugal |
| • Belgium | • Finland | • Latvia | • Romania |
| • Bulgaria | • France | • Lithuania | • Slovakia |
| • Croatia | • Germany | • Luxembourg | • Slovenia |
| • Cyprus | • Greece | • Malta | • Spain |
| • Czech Republic | • Hungary | • Netherlands | • Sweden |
| • Denmark | • Ireland | • Poland | • United Kingdom |

Get connected



2. Product specifications

Manufacturer Model	Astreea®
In compliance with	ACS111 (22KW) / ACS121 (2 × 22KW) Mode 3 charging, level 2, IEC/EN 61851-1:2019, 61851-21-2, 60529, 62262, 62196-2, 62196-1
Input Voltage	3Ph+N+PE 400V
Max. Input Current	32A
User Selectable	10, 16, 20, 25, 32A
Max. Output Power	22KW
Output Connection	Type 2 Charging Socket
Operation Temp.	-30°C to 50°C
Humidity	5% - 95% without condensation
Protection Class	IP54
Mechanical Protection	IK10
Electrical Protections	External type A RCBO required, ground fault including DC residual current protection, external surge protection
Max. Output Power	22KW

Power Unit	ABB
Status Indication	Dynamic RGBW led fully configurable
Protocols	OCPP 1.6, EBUS under development
Software	Apple iOS and Android mobile devices app, cloud support
Dimensions 22KW (HxD)	1091.5 mm x Ø114 mm 42.97 in x Ø4.48 in
Dimensions 2×22KW (HxD)	1221 mm x Ø114 mm 48.08 in x Ø4.48 in
Base Diameter	Ø174 mm / Ø6.85 in

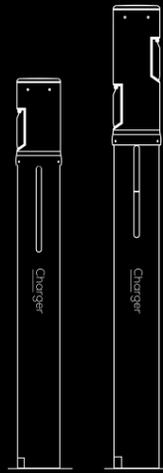


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astreea.com/charger

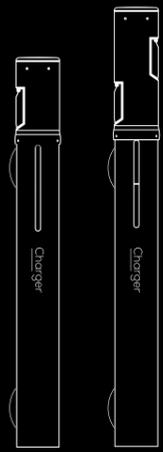
Horizontal Wallbox



Self Standing



Wallboxes



Remember

There are **5 different models** serving one purpose: making e-charging the coolest thing there is.

CE

Missing or you lost spares? Please call our customer service: (907) 931-4469

3. Assembly in soil with Foundation Frame

3.1.1 Creation of the Charging Stations foundation

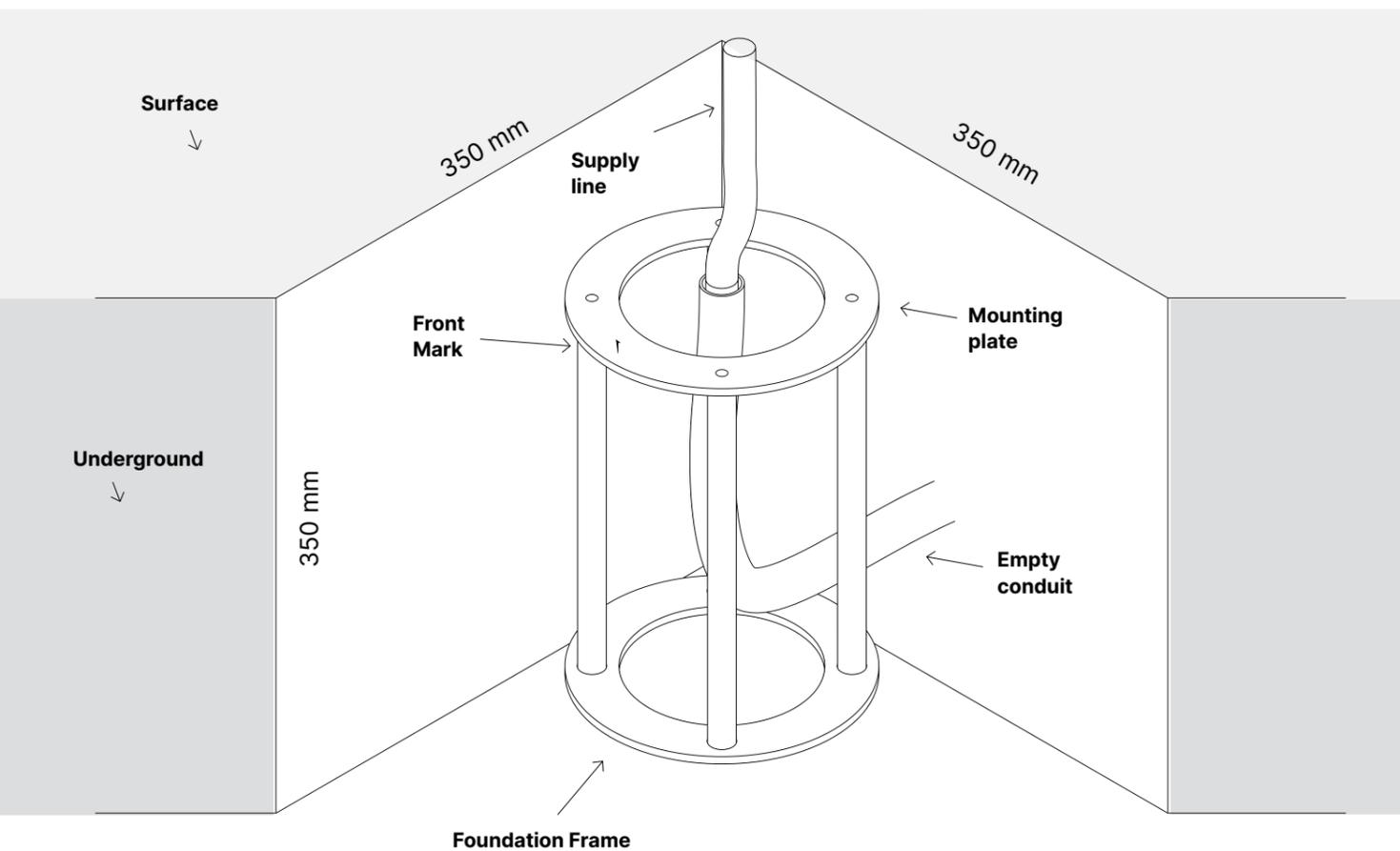
For the creation of the ground foundation for safe and stable attachment of the Charger, Astreea® recommends the optional Foundation Frame, which is poured in with concrete.

Make sure no cement gets into the threaded holes!

Make sure the electrical cables and electrical cables protection are not affected or scratched during the the installation process.

With the help of prefabricated bolting points the assembly of the charging column is facilitated:

- The height can be adjusted on request.
- After digging the soil, shutter the area of the foundation.
- Then insert the **Foundation Frame** and guide an empty conduit through the provided opening.
- To align the base frame, pay attention to the **front mark**, which is located on the **mounting plate**.
- Next you can lead the **supply line** through the **empty conduit**.
- Leave a sufficient length above the ground level.
- Level the foundation frame, making sure the foundation plate is at ground level.

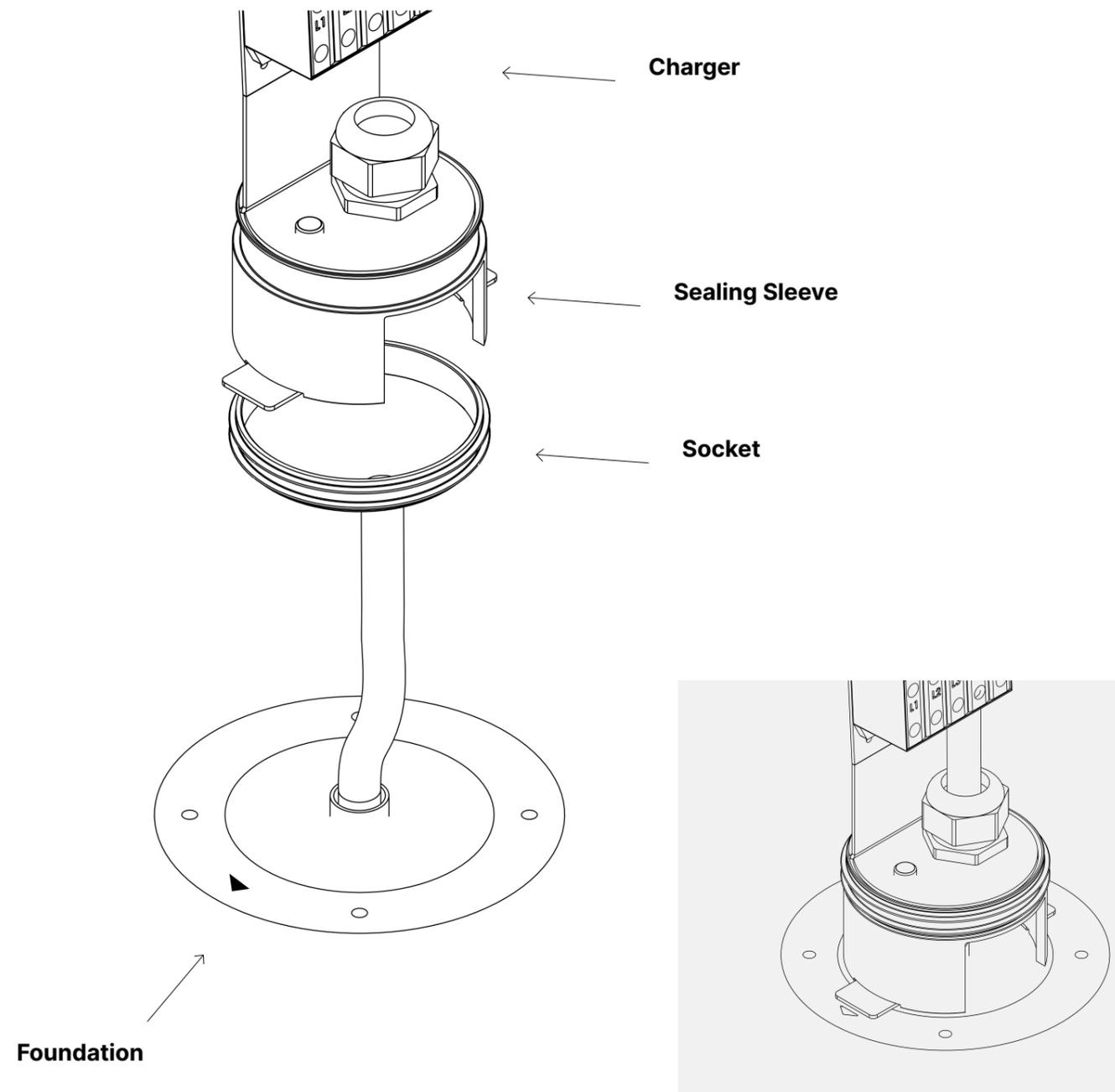


3.1.2 Mount the sleeve on the lower cap

After the foundation has set:

- Place the **Charger** on top of the Foundation Frame
- Pull the **socket** out of the charger.
- Insert the **sealing sleeve** over the socket, as shown in the images below.

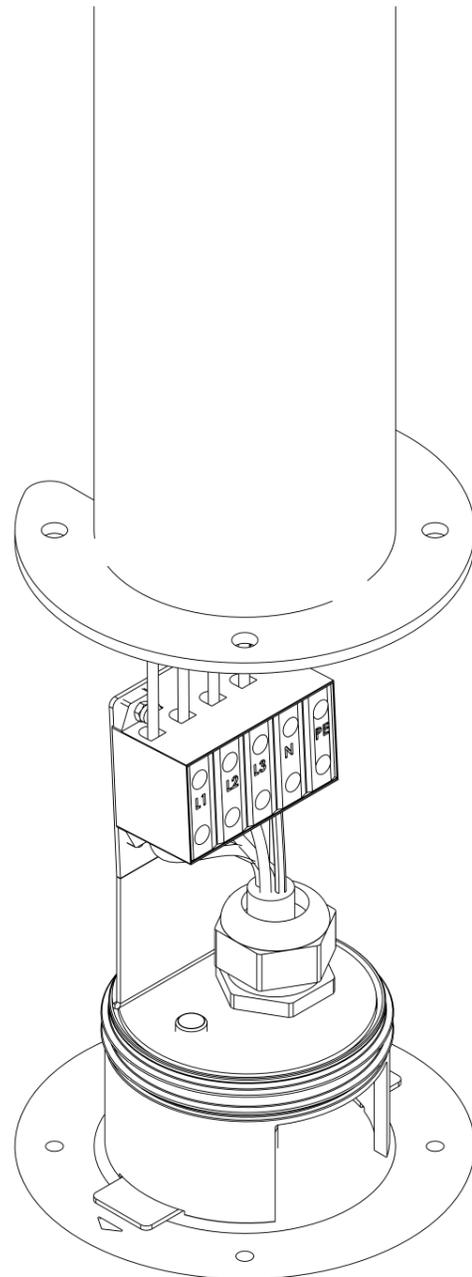
Make sure the sleeve is sitting well on the socket and there are no folds or dirt.



3. Assembly with Foundation Frame

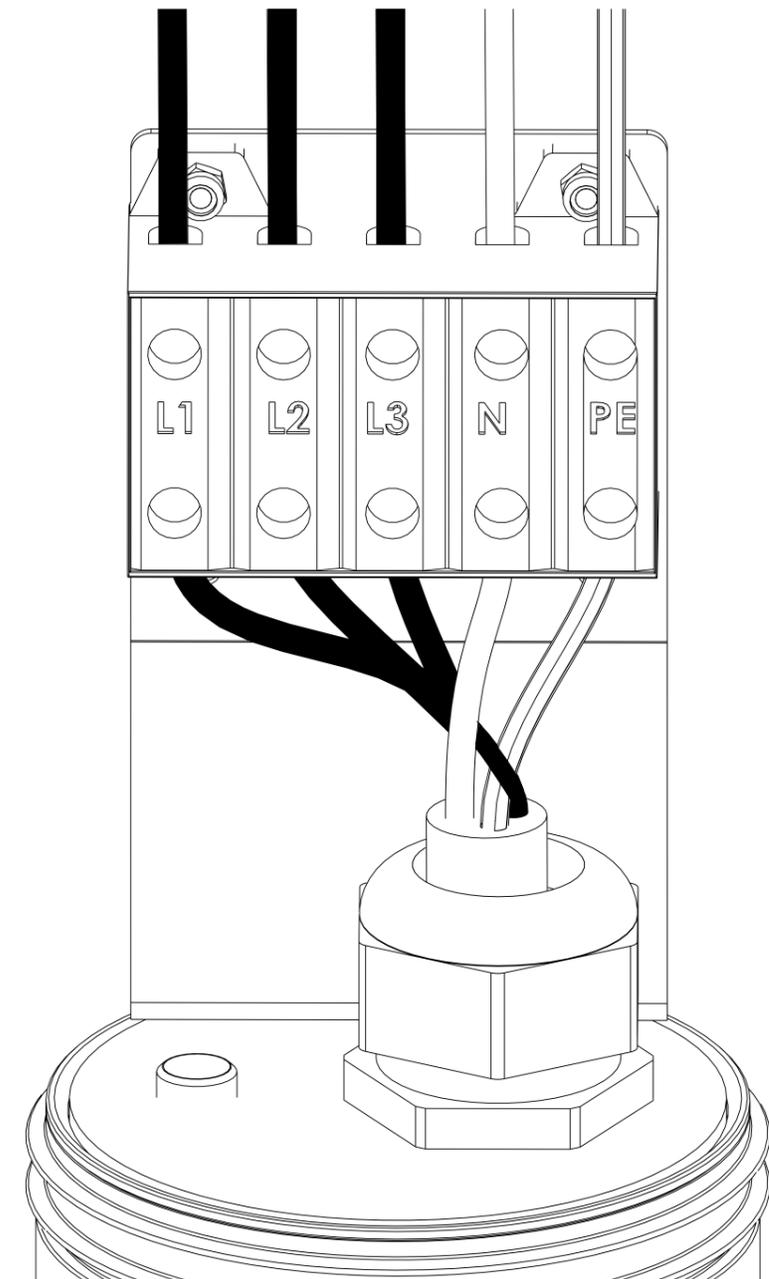
3.1.3 Feed the supply cables through the cable glands

Pull the cables through the cable glands, adjust the length of the wires and strip off the jacket making sure to leave out at least 10 mm at the top.



3.1.4 Link the wires to the terminal strip following their position required by the wires already mounted on the terminal

After adjusting the length of the wires and stripping off the cable insulation, link the wires. The following table shows the connection diagram of the connection point between the ground side supply line and the charging unit cables, including the functional description.

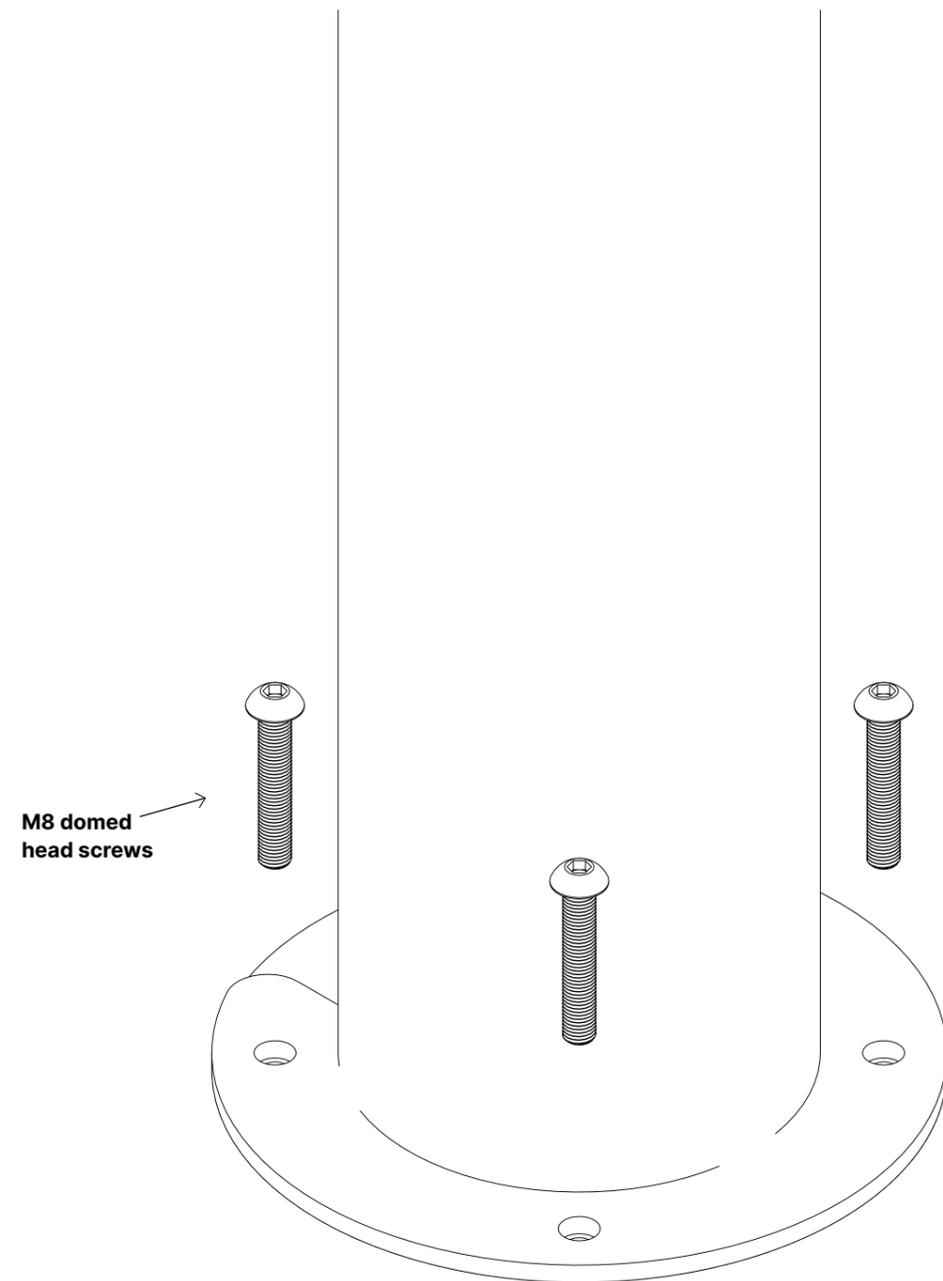


3. Assembly with Foundation Frame

3.1.5 Fix the charger to the foundation

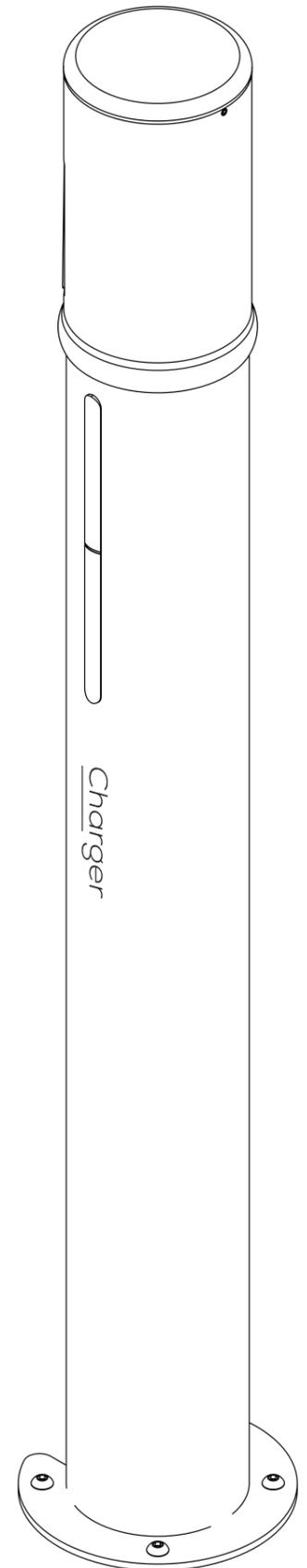
After the cables are connected properly, push the socket back into the Charger and place it on top of the Foundation Frame. Make sure the holes in the base of the Charger are aligned with the holes in the Foundation Frame. Use 4 x M8 countersunk screws (included) to fix the charger to the Foundation Frame.

Use pipe lubricant on the sealing to push the socket back up into the charger!



4. Ready to use

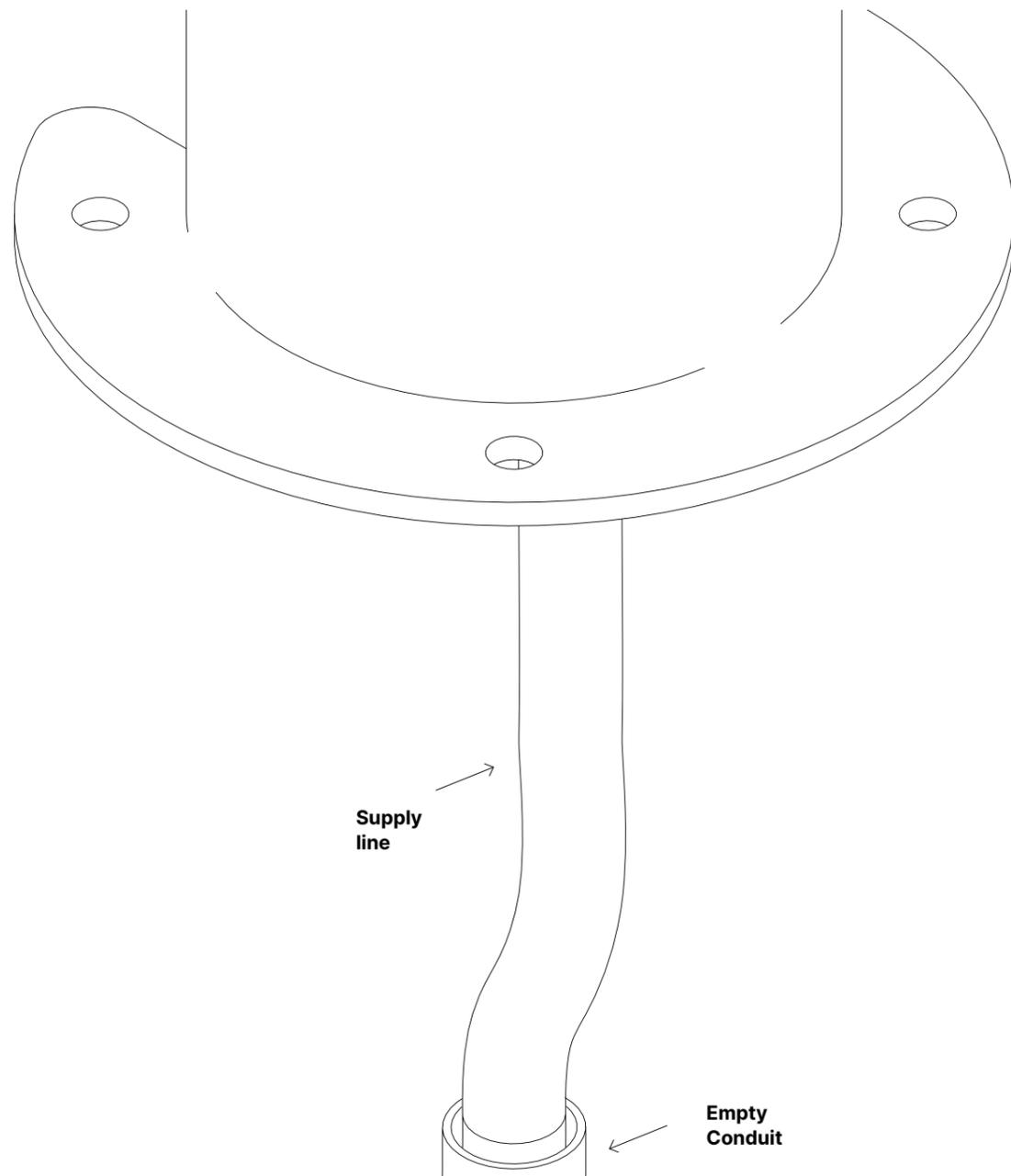
Congratulations! Your Astreea® Charger is ready to use!



3.2 Assembly on alternative ground

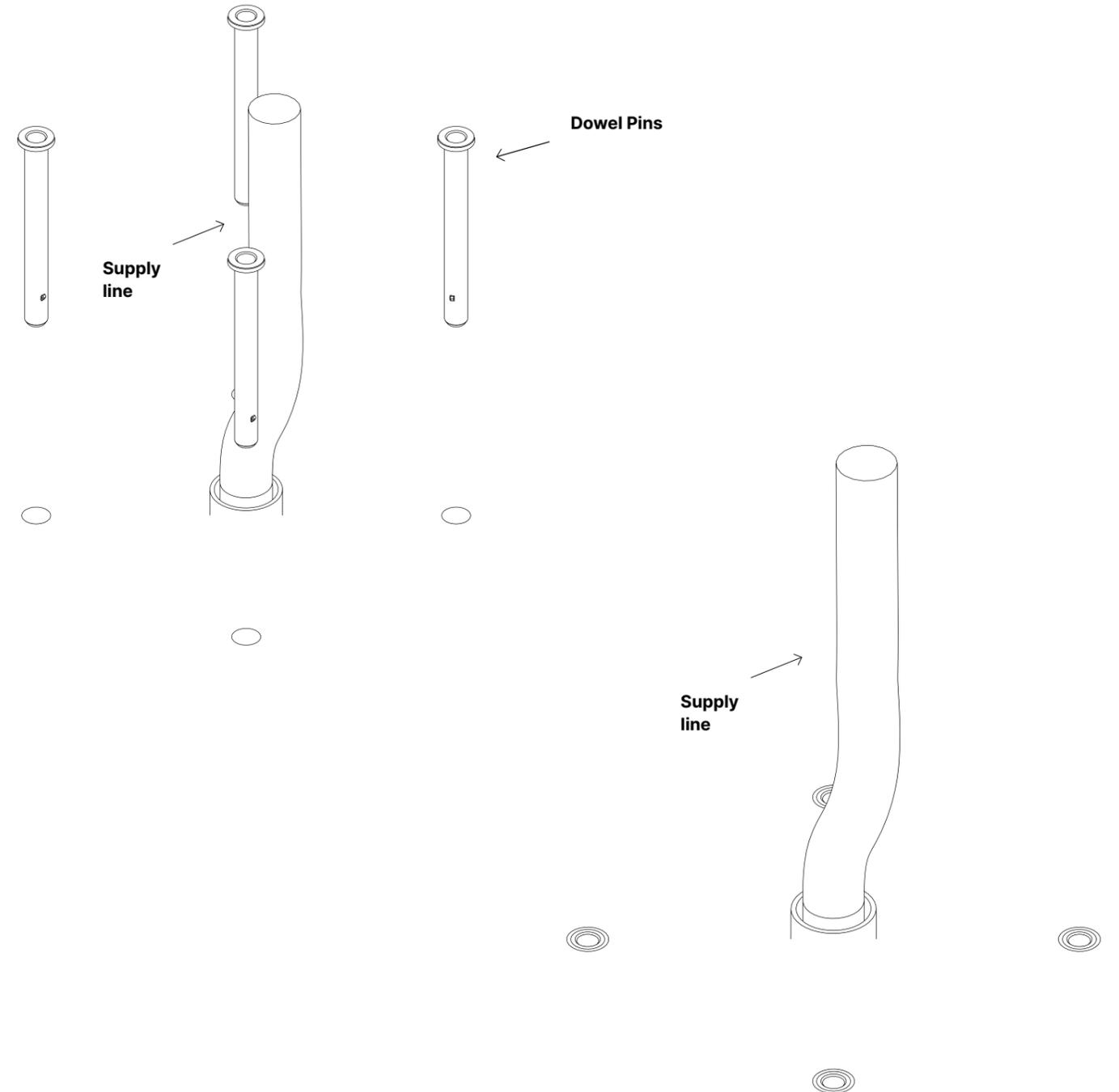
3.2.1 Place the charger in position and mark the holes that need to be drilled for fixing the charger to the foundation

If you already have a solid foundation with a **thickness of at least 200 mm**, the Charger can be mounted on it, taking in account that **the cable is already pulled through and in position before pouring the concrete**. Put the Charger on top of your foundation and mark out the holes in the base of the Charger.



3.2.2 Drill the marked holes and insert the dowel pins

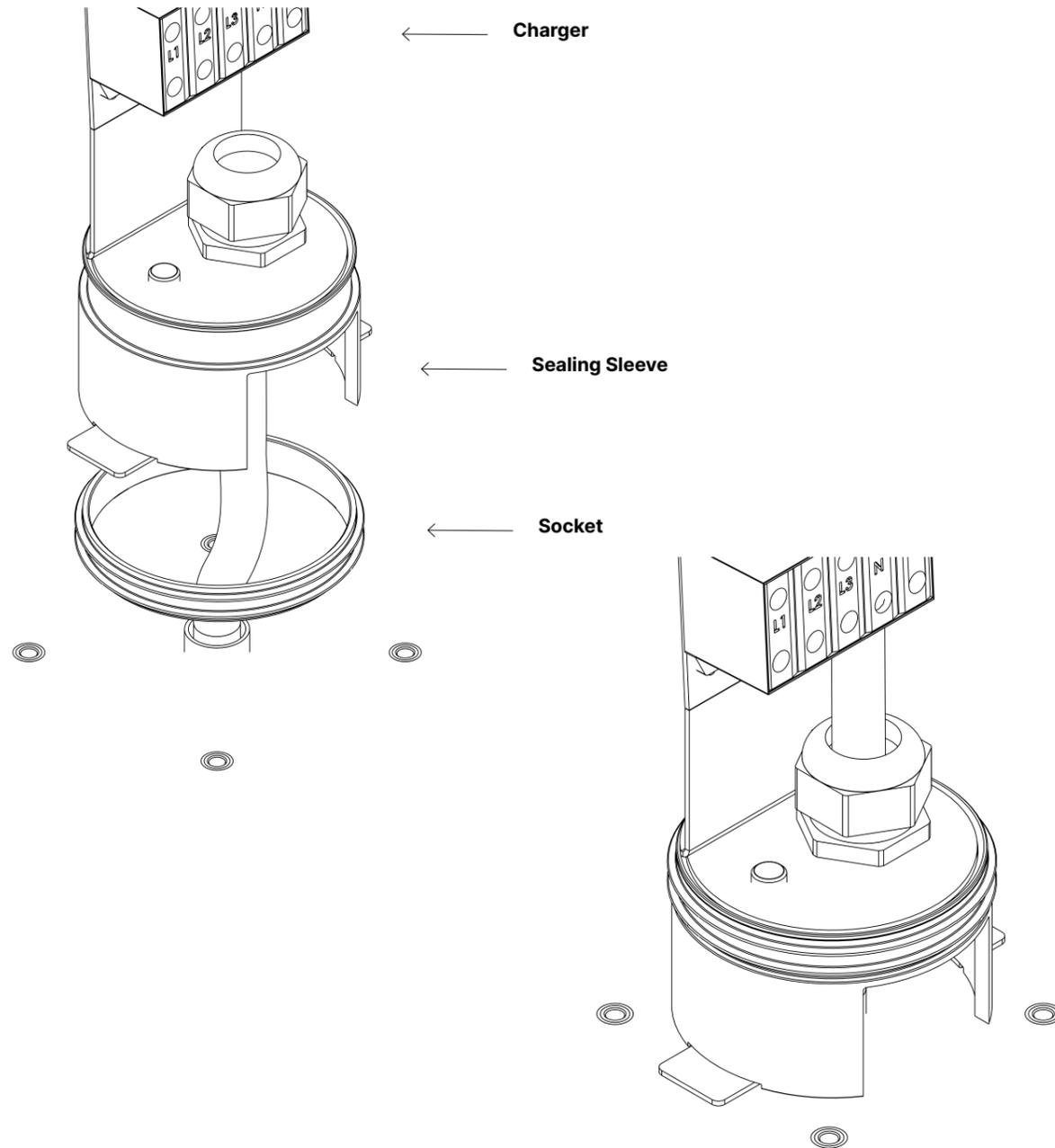
After the position of the Charger is marked, drill the holes and insert the **dowel pins** that are appropriate for your foundation material (ask at your local hardware store).



3.2 Assembly on alternative ground

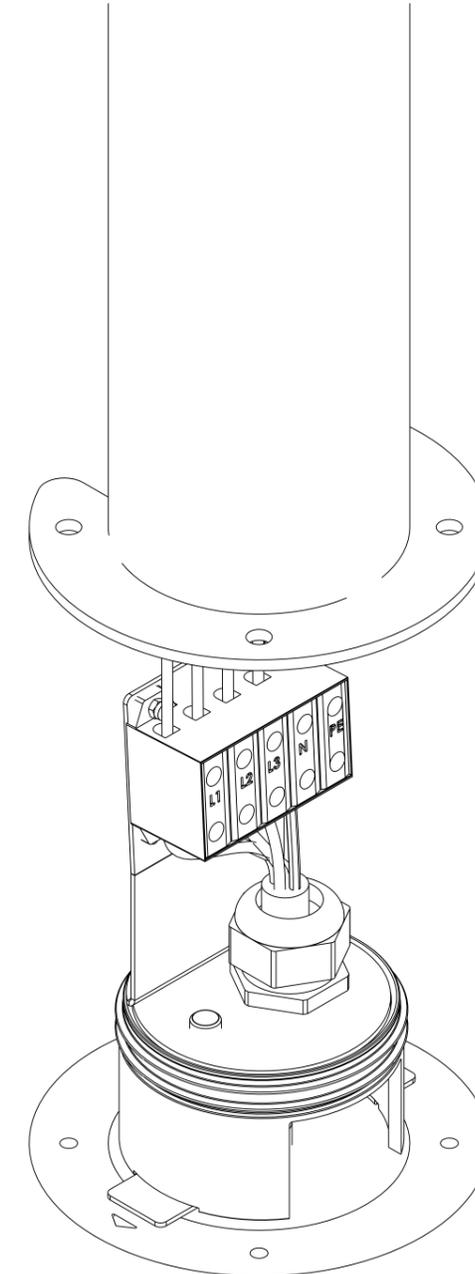
3.2.3 Mount the sleeve on the lower cap

After the holes are drilled, place the Charger in position, pull the socket out of the charger and insert the sealing sleeve over the socket, as specified in **Assembly with the Foundation Frame (3.1.2)**. **Make sure everything is clean and the sleeve sits well on the socket.**



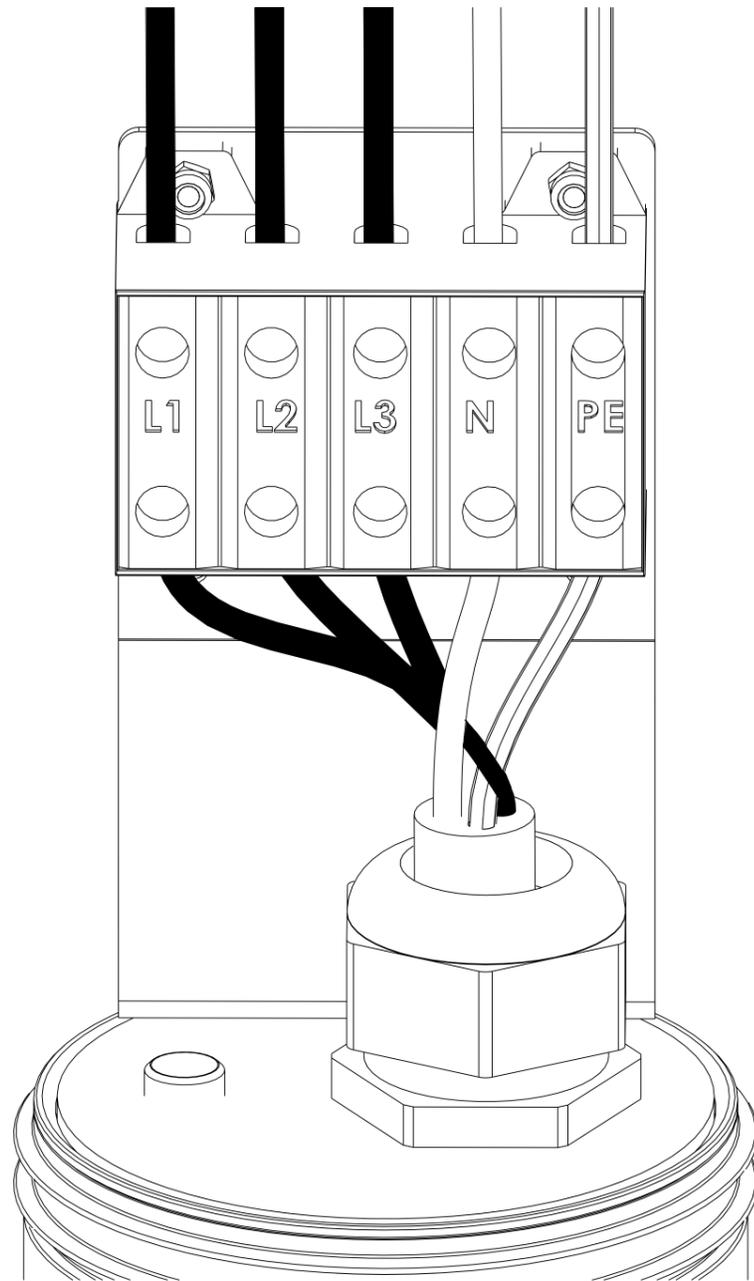
3.2.4 Connect the wires as indicated

Pull the cables through the cable glands, adjust the length of the wires and strip off the jacket making sure to leave out at least 10 mm at the top. Follow the indications in Assembly with the Foundation Frame (3.1.3 and 3.1.4).



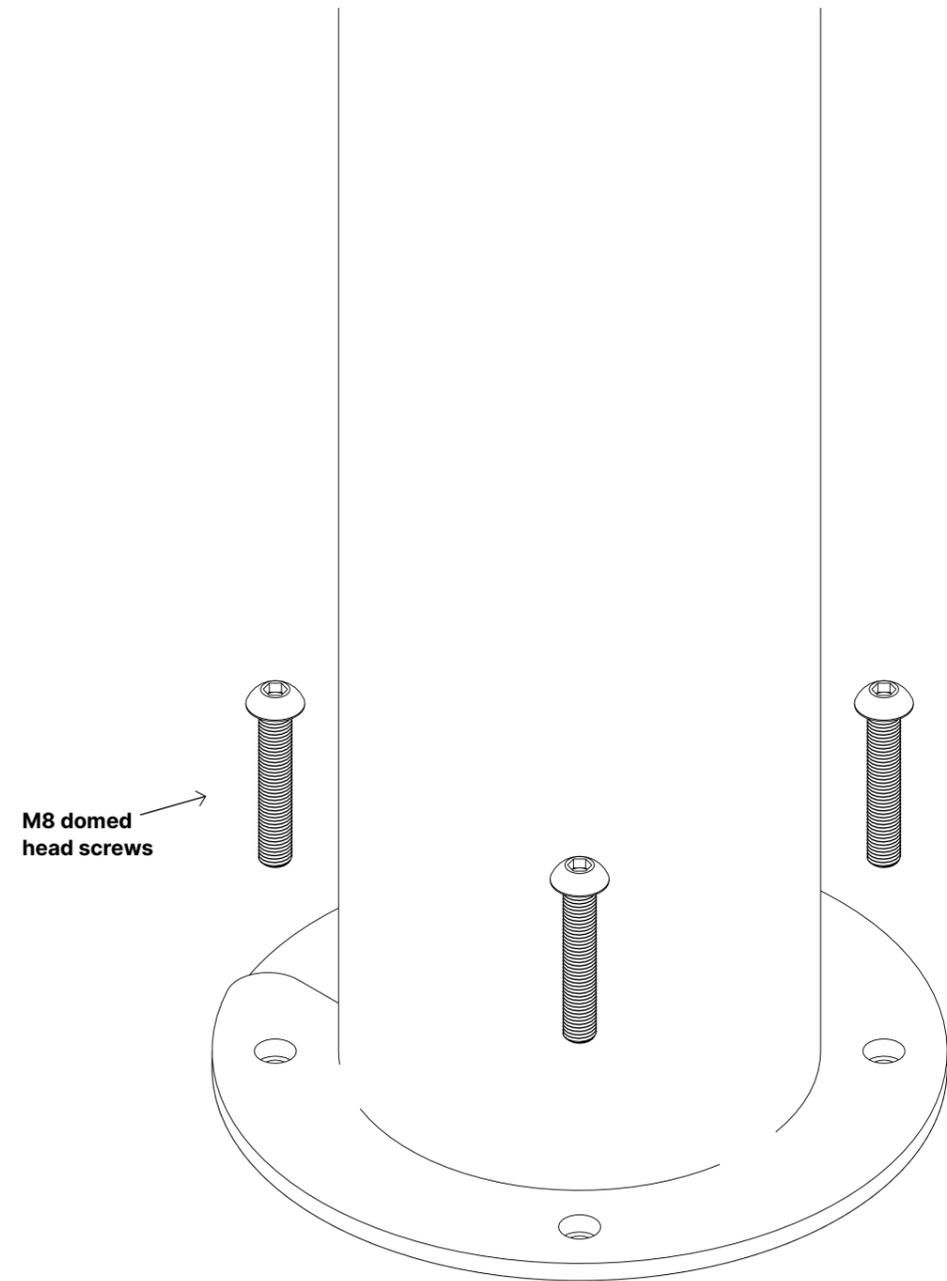
3.2.5 Link the wires to the terminal strip following their position required by the wires already mounted on the terminal

After adjusting the length of the wires and stripping off the cable insulation, link the wires. The following table shows the connection diagram of the connection point between the ground side supply line and the charging unit cables, including the functional description.



3.2.6 Insert the charger onto the lower part and fix the charger to the ground

Install the second upper panel under the polycarbonate disc of the central bolt assembly. Make sure that the left part overlaps with the right part of the previous panel. Fix it to the crown plate in the same way as the previous one was fixed.

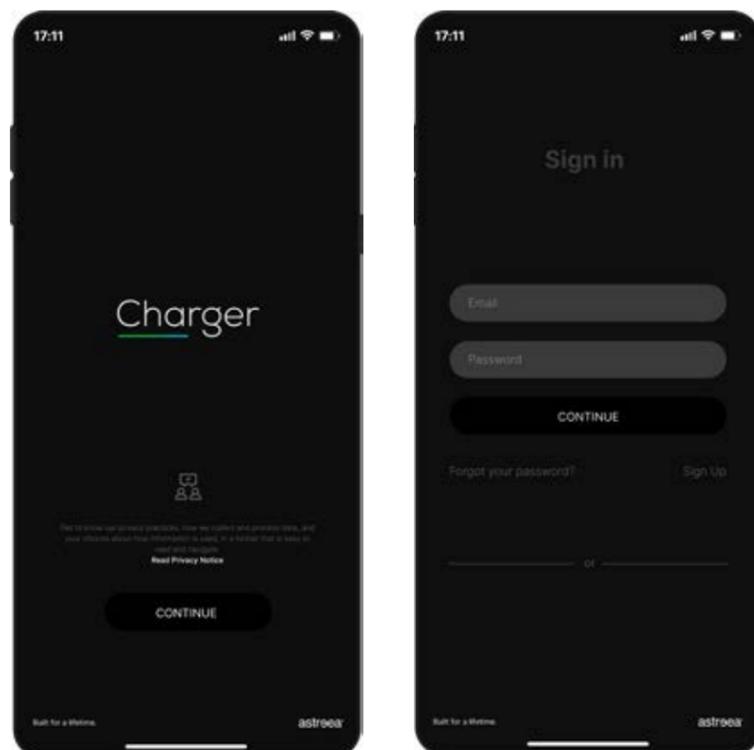


5. Astreea® Charger mobile app

How to use the mobile app

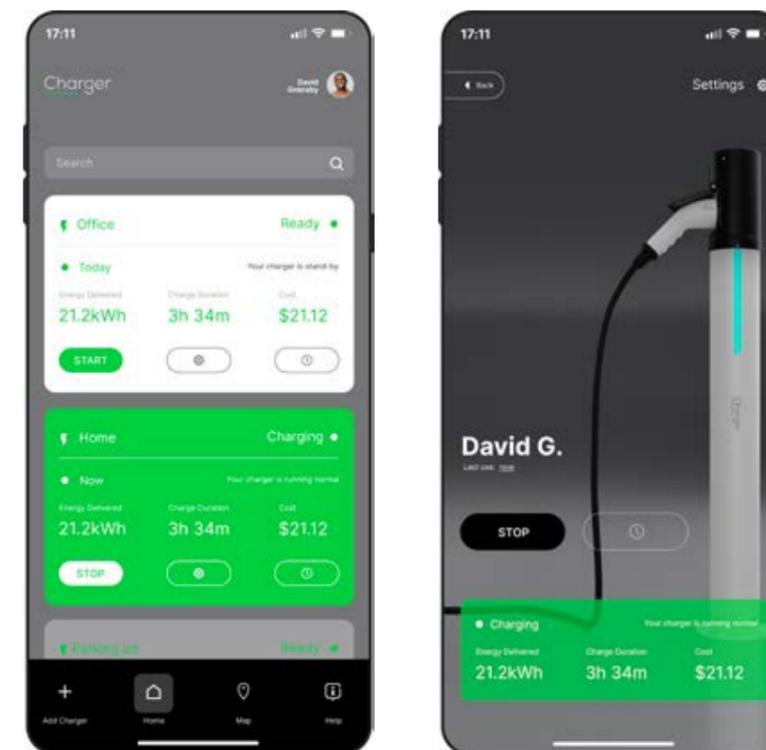
Privacy notice - tap "Continue" after reading the privacy notice

Login screen - enter your account details or login with your Apple account



Charging screen - you have a full status of your Charger(s), the duration and costs for each and additional settings

Status screen - you'll get a full status of your charge

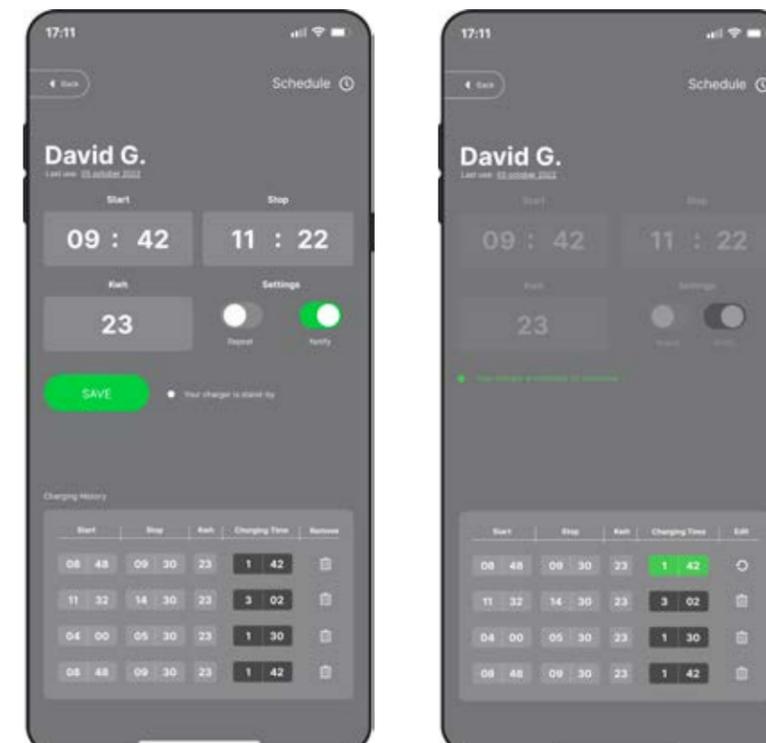


Privacy notice - tap "Start pairing" and wait for the Charger to connect with the app

After pairing successfully you are ready to charge your EV with Astreea® Charger



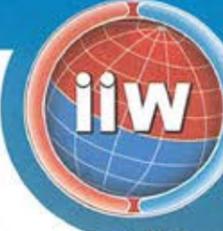
You can schedule your charges according to your needs and also keep track of everything



 ICPE OICPE ELECTRIC PRODUCTS CERTIFICATION INDEPENDENT BODY www.icpe.ro		Splaiul Unirii 313, lot 2, parter din constructia P+4, C1-U63 030136, sector 3, Bucuresti - Romania 031 426 0970 oicpe@oicpe.ro Nr. RC: J40/3946/2009 CIF: RO25338954 Cont: RO60CARP0452P00633990RO01-Patria Bank RO71TREZ5069XXX011505 - Trezorerie sector 3		accredited for CERTIFICATION  SR EN ISO/CEI 17065:2013 ACCREDITATION CERTIFICATE PR 011			
CERTIFICAT DE CONFORMITATE schema «1a» cu respectarea activităților din SR EN ISO / IEC 17067 <i>Certificate of Conformity</i> schema «1a» in compliance with the activities of SR EN ISO / IEC 17067							
Certificat nr: <i>Certificate No:</i>	1101	Data emiterii: <i>Date of issue:</i> (day/month/year)	03.10.2022	Statut: <i>Status:</i>	Initial	Exemplar nr: <i>Copy No:</i>	3/4
Număr dosar certificare: <i>Certification file No:</i>	478/1	Contract General nr: <i>General Agreement No:</i>	40.1/04.08.2022	Pagina	1/2		
Titular certificat (nume și adresă): <i>Certificate holder (name and address):</i>	ARSAT INDUSTRIE SRL 601 Street, No. 53, Pecica, Arad County, Romania						
Domeniu de aplicare: <i>Application range:</i>	Code CPSA 271. Electrical equipment. Electric motors, generators, transformers, electricity distribution and control apparatus						
Denumirea produsului: <i>Product name:</i>	ASTREEA CHARGING STATION						
Tip/model de referință: <i>Reference type/model:</i>	ACS121-A						
Varianta(e): <i>Variant(s):</i>	-						
Marca comercială înregistrată: <i>Registered Trade Mark:</i>	astræa®						
Producător (nume și adresă): <i>Manufacturer (name and address):</i>	ARSAT INDUSTRIE SRL 601 Street, No. 53, Pecica, Arad County, Romania						
Locul de producție (nume și adresă): <i>Manufacturing location (name and address):</i>	ARSAT INDUSTRIE SRL 601 Street, No. 53, Pecica, Arad County, Romania						
Standard național sau alt normativ utilizat pentru certificare: <i>National standard or other normative document used as reference for certification:</i>	SR EN IEC 61851-1:2019						
Raport de încercări (nr./data): <i>Test Report (No./date):</i>	According to Annex						
Certificatul este valabil până la data: <i>The certificate is valid until (day / month / year):</i>	02.10.2024						
<p>In baza rezultatelor încercărilor efectuate, se declară că produsul este în conformitate cu standardul(ile) menționat(e) mai sus. <i>Based on the results of the performed tests, the product is declared to be in compliance with the above standard(s).</i></p> <p>Schema de certificare utilizată este «1a» (certificarea conformității pe bază de încercări de tip). Acest certificat este valabil numai pentru eșantionul supus încercărilor de tip. Produsele de același tip fabricate ulterior nu sunt acoperite de acest Certificat de Conformitate. Producătorul va emite pe propria sa răspundere Declarația de Conformitate pentru produsele de același tip fabricate ulterior și va aplica marcajul CE dacă sunt îndeplinite toate cerințele directivelor europene aplicabile produsului certificat de OICPE. <i>The certification scheme used is «1a» (conformity certification based on type tests). This certificate is valid only for the sample underwent to the type tests. Subsequently manufactured products of the same type are not covered by this Certificate of Conformity. The manufacturer will draw up on sole responsibility the Declaration of Conformity for products of the same type produced later and affixed the CE marking if all requirements of applicable European directives to the certified product by OICPE are fulfilled.</i></p> <p>Acest certificat și anexa sa pot fi reproduse numai în întregime. Statutul și autenticitatea acestui certificat poate fi verificată pe site-ul www.oicpe.ro <i>This certificate and its annex may only be reproduced in full. The Status and authenticity of this certificate may be verified by visiting site www.oicpe.ro</i></p> <p>Acest certificat nu este transferabil și rămâne proprietatea organismului emitent. <i>This certificate is not transferable and remains the property of the issuing body.</i></p>							
MANAGER DEPARTAMENT CERTIFICARE CERTIFICATION DEPARTMENT MANAGER Ing. Dragoș Rosmeteniuc							



INTERNATIONAL INSTITUTE OF WELDING



Having satisfied the requirements of the IIW
 Manufacturer Certification Scheme for the
 Management of Quality in Welding

The Unit: SC ARSAT INDUSTRIE S.R.L.
Located in: 317235 Pecica, Str. 601, nr. 53
Company: SC ARSAT INDUSTRIE S.R.L.

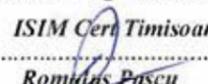
is certified in accordance with

ISO 3834 Part 2 - Doc. IAB 340

for the product(s):
Welded metallic structures, components and devices for the railway and aerospace industry, components for cranes and excavators, metal structures for wind turbines

with the scope of work stated in the attached Schedule

Certificate number and revision status: *113/1/2018 rev. 0*
 First issue date: *25.07.2018*
 Current issue date: *25.07.2018*
 Date of expiry: *24.07.2021 (pending successful annual audits)*

ANBCC Governing Board Representative

Romulus Pascu

Scheme Manager

Horia Dașcău





This Certificate is subject to the rules established by IIW
 for the certification of Companies

EUROPEAN FEDERATION FOR WELDING, JOINING AND CUTTING

Having satisfied requirements of the EWF Manufacturer Certification System for the following Scheme(s):

EN ISO 3834-2

The Unit: SCARSAT INDUSTRIE S.R.L.
Located in: 317235 Pecica, Str. 601, nr. 53
Company: SCARSAT INDUSTRIE S.R.L.
 is certified for the product(s)
Welded metallic structures, components and devices for the railway and aerospace industry, components for cranes and excavators, metal structures for wind turbines
 With the scope of work stated in the attached Schedule

Certificate number and revision status: 113/1/2018 rev. 0

First issue date: 25.07.2018
Renewal date: 25.07.2018
Date of expiry: 24.07.2021 (pending successful annual audits)

Chairman
ANBCC Governing Board
ISIM Cert Timisoara

Romulus Pasca

Scheme Manager

Horia Dașcău

EWFC AUTHORIZED NATIONAL BODY FOR COMPANY CERTIFICATION
ISIM CERT
TIMISOARA ROMANIA

EWFC PARTICIPATING COUNTRIES
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This certificate is subject to the rules established by EWF for the certification of Companies

ICPE
ELECTRIC PRODUCTS CERTIFICATION
INDEPENDENT BODY

ICPE - ORGANISM INDEPENDENT PENTRU
CERTIFICAREA PRODUSELOR ELECTRICE

www.icpe.ro

Splaiul Unirii 313, lot 2, parter din constructia P+4, C1-U63
030138, sector 3, Bucuresti - România
031 426 0970
icpe@icpe.ro
Nr. RC: J40/3946/2009
CIF: RO25338954
Cont: RO60CARP0452P00633990RO01-Patria Bank
RO711TREZ5069XXX011505 - Trezorerie sector 3

Număr dosar certificare: <small>Certification file no.</small>	478/1	ANEXĂ <small>Annex</small>	Exemplar nr: <small>Copy No.</small>	3/4
			Pagina <small>Page</small>	2/2

Această anexă este valabilă numai cu CERTIFICATUL DE CONFORMITATE nr. 1101 / 03.10.2022
 This annex is valid only together with the CERTIFICATE OF CONFORMITY No

Titular certificat (nume și adresă): ARSAT INDUSTRIE SRL
 Certificate holder (name and address): 601 Street, No. 53, Pecica, Arad County, Romania

Denumire produs: ASTREEA CHARGING STATION
 Product name:

Nr.crt. <small>No.</small>	Tip/model <small>Type/Model</small>	Raport de încercare <small>Test Report</small>	Date tehnice <small>Technical Data</small>
1	ACS121-A (reference) <small>serial: 22280000011 / 07.2022</small>	429/29.09.2022 issued by OICPE-LICPE according to SR EN IEC 61851-1:2019 430/29.09.2022 issued by OICPE-LICPE according to SR EN IEC 61851-1:2019	Rated input voltage: 3x400 V _{ac} Power system: TN-S (L1, L2, L3, N, PE) Rated frequency: 50 Hz Rated current: max. 2x32 A (for simultaneous charging) Degree of protection provided by enclosure: IP 54 Degree of protection against external mechanical impact: IK10, anti-vandalism Degree of protection against electrical shocks: I Cooling: natural ventilation Operating temperature range: -30 °C...+ 50 °C Enclosure: metallic, electrostatically painted, with plastic cover Overall dimensions (diameter x height): ∅ 114 mm x 1200 mm Weight: max. 14 kg Mounting: on the ground Use: outdoor Output: Rated output voltage: 3x400 V _{ac} Output current: max. 32 A / output Output power: max. 22 kW / output Socket number: 2 Charging mode: mode 3 Type of connections to the electric vehicle: fixed sockets The equipment is intended for supplying AC power to electric vehicles (EV). It allows the simultaneous charging of 2 electric vehicles.

MANAGER DEPARTMENT CERTIFICARE
 CERTIFICATION DEPARTMENT MANAGER
 Ing. Dragoș Rosmeteniuc

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. 01 100 1521053

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: **S.C. ARSAT INDUSTRIE S.R.L.**
Str. 601 nr. 53
RO-317235 Pecica, jud. Arad

Scope: Production of machined parts and welded structures.

An audit was performed, Report No. 1521053. Proof has been furnished that the requirements according to ISO 9001:2015 are fulfilled.

The due date for all future audits is **18 of November**.
The certificate is valid from **2019-11-28** until **2022-11-27**.
First certification 2004

Validity: 2019-12-03



TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

Certificate

Standard **ISO 14001:2015**

Certificate Registr. No. 01 104 1521053

TÜV Rheinland Cert GmbH certifies:

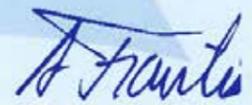
Certificate Holder: **S.C. ARSAT INDUSTRIE S.R.L.**
Str. 601 nr. 53
RO-317235 Pecica, jud. Arad

Scope: Production of machined parts and welded structures.

An audit was performed, Report No. 1521053. Proof has been furnished that the requirements according to ISO 14001:2015 are fulfilled.

The due date for all future audits is **18 of November**.
The certificate is valid from **2019-11-28** until **2022-11-27**.
First certification 2016

Validity: 2019-12-03



TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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Certificate

Standard **ISO 45001:2018**

Certificate Registr. No. **01 213 1521053**

Certificate Holder: **ARSAT INDUSTRIE S.R.L.**
 Str. 601 nr. 53
 317235 Pecica, jud. Arad
 Romania

Scope: **Production of machined parts and welded structures.**

Proof has been furnished by means of an audit that the requirements of ISO 45001:2018 are met.

Validity: **The certificate is valid from 2020-01-07 until 2022-12-18.**
 First certification 2016

2020-01-07


 TÜV Rheinland Cert GmbH
 Am Grauen Stein · 51105 Köln



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Charger - Single socket Model

Model ACS111/EAN 6426495302070



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