DC RAPID CHARGE

DC charging station



INSTALLER AND USER MANUAL

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About this document

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Symbols used in this document for easier orientation



This symbol marks authors notes of informational characters. We recommend for you to get familiar with the content.



Notes labeled with this symbol contain important information for safe and correct use of charging station. It is very important to read all stated information and to respect them.



Note labeled with this symbol contains information important for work safety while using power supply voltage device dangerous for human health. It is very important to read all stated information and to respect them.

Introductory information

Congratulations on your new charging station purchase. We believe, that using it will bring you many positive experiences with charging your electric vehicle. During the development of this charging station, we made sure that its use was extremely simple and safe as required by the relevant standards and legal regulations in EU countries and in the world. It is now up to you to familiarize yourself with this manual in detail, which will provide you with all the necessary information you need to know during the operation of your charging station. This way you will prevent any malfunctioning or damage to health or property and subsequent disappointment.





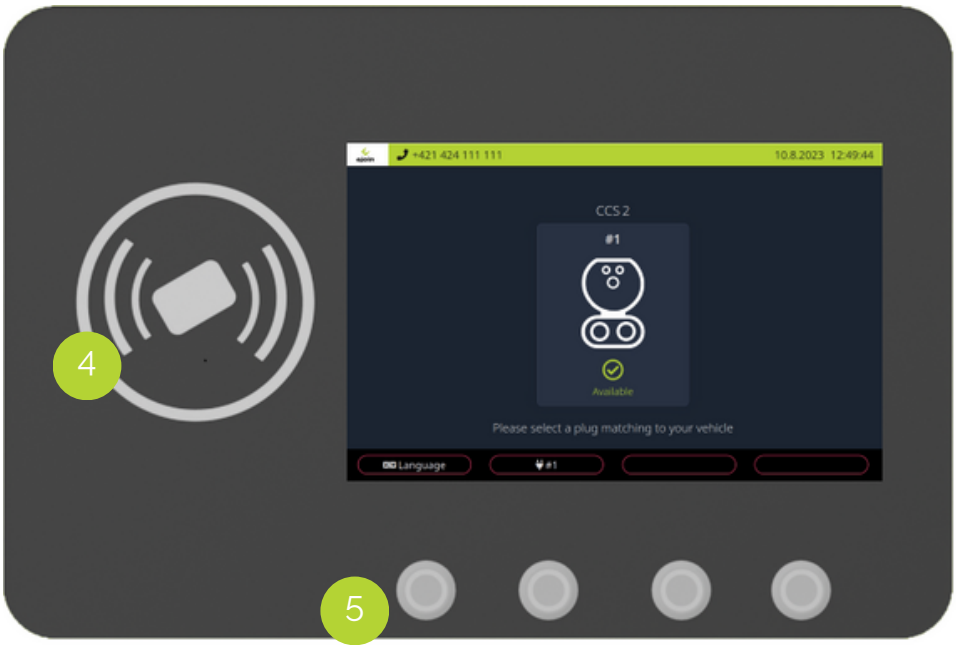
Please read this document carefully. In case that any of the information is not clear please contact us via contact info listed in this document in the Contact section.

Product description

This device is a charging station used for charging electrical vehicle onboard batteries allowing charging with alternating current.



1. Charging cable
2. Charging interface
3. Central STOP
4. RFID reader
5. Buttons for interface control



Installation of the device

What do I need to know before installing the charging station?



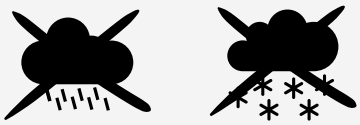
Familiarize yourself with this document before installing and using the charging station for the first time. Carefully consider all the circumstances and perform the individual steps as instructed by the manufacturer in this document. Familiarize yourself with the operating conditions and features of the charging station and ensure compliance with them during installation and throughout its use.

The manufacturer waives responsibility for possible damage to the charging station, damage to health or property caused by non-compliance with this manual, non-compliance with established procedures and operating conditions.

Who can install the charging station?

Since the charging station is an electrical device that works with life-threatening voltage, and when installing it, it is necessary to remove its top cover, which exposes live parts.
It is essential that the installation of the charging station is carried out by a specialist - an electrical engineer with a valid professional qualification.
As already mentioned in the introduction, improper installation can lead to non-functionality, damage to the device, injury to health or property.

When can the charging station be installed?



If you are going to install the charging station outdoors, you must not do so during snowy, rainy or humid weather.
Otherwise, there is a risk of water entering the device during installation, which can have fatal consequences.

At the same time, the charging station must be thermally acclimatized for at least 1,5 hours before opening and after bringing it from an environment with a different temperature (due to condensation of air humidity).

Where can the charging station be installed?



The charging station is equally suitable for indoor as well as outdoor environments.
Despite the fact that its case is made of non-flammable metal material and is hermetically sealed, it is recommended to mount it on a non-flammable base at a sufficient distance from any flammable materials (wood, etc.) and from heat sources.

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Despite the fact that its case is made of non-flammable metal material and is hermetically sealed, it is recommended to mount it on a non-flammable base at a sufficient distance from any flammable materials (wood, etc.) and from heat sources.

What are the supply voltage requirements?



The charging station can be connected to the three-phase power supply network 3x400V/230V/50Hz only in the 3P+N+PE method, which means that in addition to the three phase conductors L1, L2 and L3, the neutral conductor N and protective grounding PE must be connected separately.
It is strictly forbidden not to connect the PE protective earth, or to create it up to the charging station by dividing it with the neutral conductor N!

Consult the designer responsible for designing the connection to the charging station for the appropriate cross-section value of the charging cable depending on the distance!

It is advisable to choose the switching capacity of the used circuit breaker according to the parameters of the network to which the charging station is connected. Consult the type of suitable circuit breaker with the designer responsible for designing the connection to the charging station!

It is recommended to protect the **supply voltage** supply with **overvoltage protection** so that the charging station together with the supply cabling meets **CAT III** requirements according to IEC 60664.

What equipment is needed to install the station?

Necessary equipment:

- Flat screwdriver 4.0 (screwing the wires of the supply cable into the terminal box)

Other equipment:

- Measuring device enabling the safe detection of the presence of alternating supply voltage 400V/230V/50Hz.

A drill with the appropriate drill bit (in the case of mounting the charging station on the wall, it is necessary to pre-drill the holes for the anchoring elements - "dowels")

Stripping pliers (stripping the supply cable before connecting it to the terminal box of the charging station)

(Note for owners who purchased the charging station with the post: The equipment summary does not include the tools required to mount the charging station post. This depends on the user's chosen anchoring method.)

What equipment is needed to install the station?

4 pcs of fastening screws with a suitable length and diameter (recommended type - screw 10x50mm, only for the wall version) - necessary to attach the charging station cabinet to the anchoring elements

4 pcs of anchoring elements ("dowels", only for the wall-mounted version), while the dimensions must be matched with the type of screw used according to the previous point, and the type of anchor must be chosen according to the material of the base to which the charging station will be attached.

Other material supplied as standard supplied as part of the charging station

Note for owners who purchased the charging station together with the post: The summary of equipments does not include material that is required for mounting the charging station post. It depends on the method of anchoring and grounding chosen by the user.

When can I start using the charging station?

You can start using the charging station only after successful completion of all assembly steps, while the connection of the station to the power supply network must be approved by a person with relevant professional qualifications and authorization (revision technician) even before the first start-up.

Notices and general information



- Before installation, make sure that the supply cable is not live. At the same time, prevent other persons from handling the switchboard upstream of the supply cable during assembly so that voltage is not accidentally connected to the supply cable!

- Do not forget to reserve a long enough piece of free supply cable to connect the charging station. In the case of placement on a post, it is the length from the concrete base to the opening in the station (min. 200 cm). In the case of mounting on the wall, it is min. 50 cm of the supply cable.

- Exclude the presence of persons who could endanger you or could be endangered by their presence at the installation site during installation - e.g. children, persons with disabilities, elderly persons, persons suffering from mental disorders in whom there is a risk of unpredictable behavior, persons under the influence of alcohol, psychotropic or narcotic substances, etc.!

- Remove all objects that could endanger you during assembly or possible escape, e.g., obstacles in the way, a mess lying around, containers with flammable materials, potential sources of fire, etc.

- The charger contains components sensitive to electrostatic discharge (ESD). It is desirable to carry out assembly in clothing and shoes that do not create such a discharge during friction (linen, cotton, leather), avoid shoes with rubber soles and synthetic materials (polyester, silon, nylon, etc.). Avoid touching the PCB of the control system unnecessarily with your hands or tools. Before and during assembly, it is advisable to continuously discharge the accumulated electric charge by touching a grounded metal object, while taking care not to touch another live metal part with another part of the body at the same time.

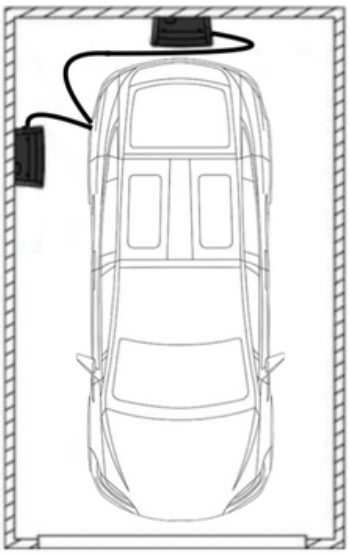
- If you brought the charging station from a place with a different ambient temperature, acclimatization is necessary (see paragraph "Introductory information" - "When can the charging station be installed?")

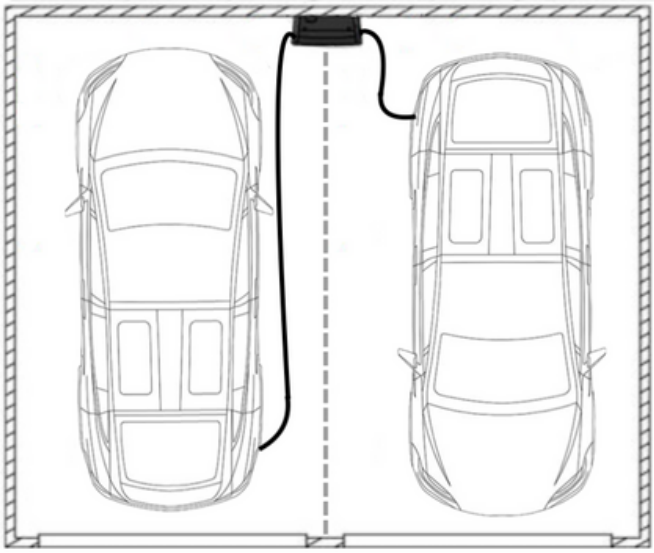
- The charging connector must not be connected to the vehicle during installation!

Location

- The installation site must be clean and dry.

- When choosing a location, take into account the length of the charging cable, which must reach the car's charging connector with sufficient margin (note - the location of the charging connectors on electric vehicles varies depending on the manufacturer and model, at the same time, it must be taken into account that the vehicle can be parked in both directions).





- When choosing a place, the distance from surrounding objects to the charging station must be taken into account. At least 30 cm from the nearest edge.

- The charging station on the wall should be placed at a height of 1.5 m

- Charging station on a post - the base must be solid, ideally a concrete base. It must bear the weight of the entire assembly of the charger and the post, and at the same time it must not be tipped over (e.g. by gusts of wind, washing, leaning against the post, tripping over the charging cable or when it is pulled).

- Follow the policy "Where the charging station can be installed."



Electrical connection

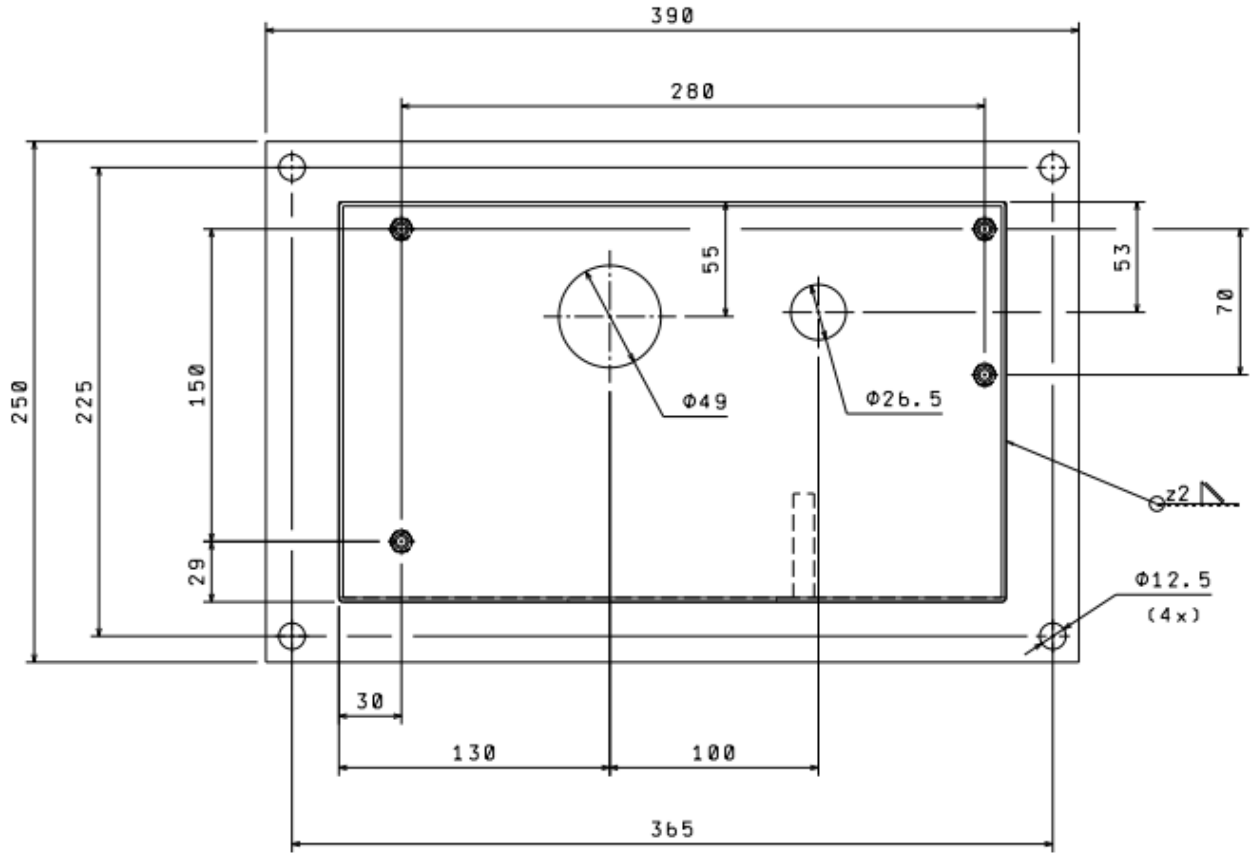
If you want to use the full potential of your charging station, it is required to connect it to a three-phase AC power supply 3x400V/230V/50Hz.

In order to keep losses as low as possible on the supply line, it is recommended to use a cable with the shortest possible length. A fixed connection with a CYKY-J 5x35 to 5x120 cable is recommended, while the latter type is suitable for longer connections. At the same time, it is also possible to use cables with cable-type cores. CYSY 5x25 to 5x120, while the cores of these cables must be terminated with metal sleeves. It is desirable that in this case it is also a fixed supply, as mechanical stress can lead to its damage and endanger safety.

- The connection cables in the case of wall mounting are fed from the back of the charging station. If this is not possible, the cable is brought from below.
- The connecting cables in the case of mounting the charging station with a post are fed from below.
- In the block diagrams and connection diagrams, the charging station is shown in different modes of operation. The location of the relevant installation components and their connections is described.
- Connecting the charging station with a system other than five-wire 3P-N-PE is **prohibited**!
- In your installation, the power supply must be preceded by a three-pole circuit breaker with a type B tripping characteristic, or a fuse with a tripping capacity selected according to the characteristics of the power supply network.

Assembly progress

Pass the power supply and communication cables through the post and the corresponding holes prepared in it. Place the post on the prepared solid concrete base, fasten it firmly and ground it (by connecting the grounding wire and clamp - e.g. type SP 1 to the grounding nut).



2. Shorten the power and communication cable to the desired length (so that they comfortably reach the respective terminal blocks) and strip the individual cores at the end in such a length that no bare metal core sticks out after plugging into the FA1 circuit breaker and the terminal block. Then connect all the wires according to color to the corresponding FA1 circuit breaker and terminal blocks and tighten them firmly with screws.

3.. Open circuit breaker FA2 (by switching its control lever down). Visually check the correct connection of the power cable and check whether the charger is in perfect condition. If everything is in order, connect the supply voltage to the supply cable (by turning on the switching element in your installation).

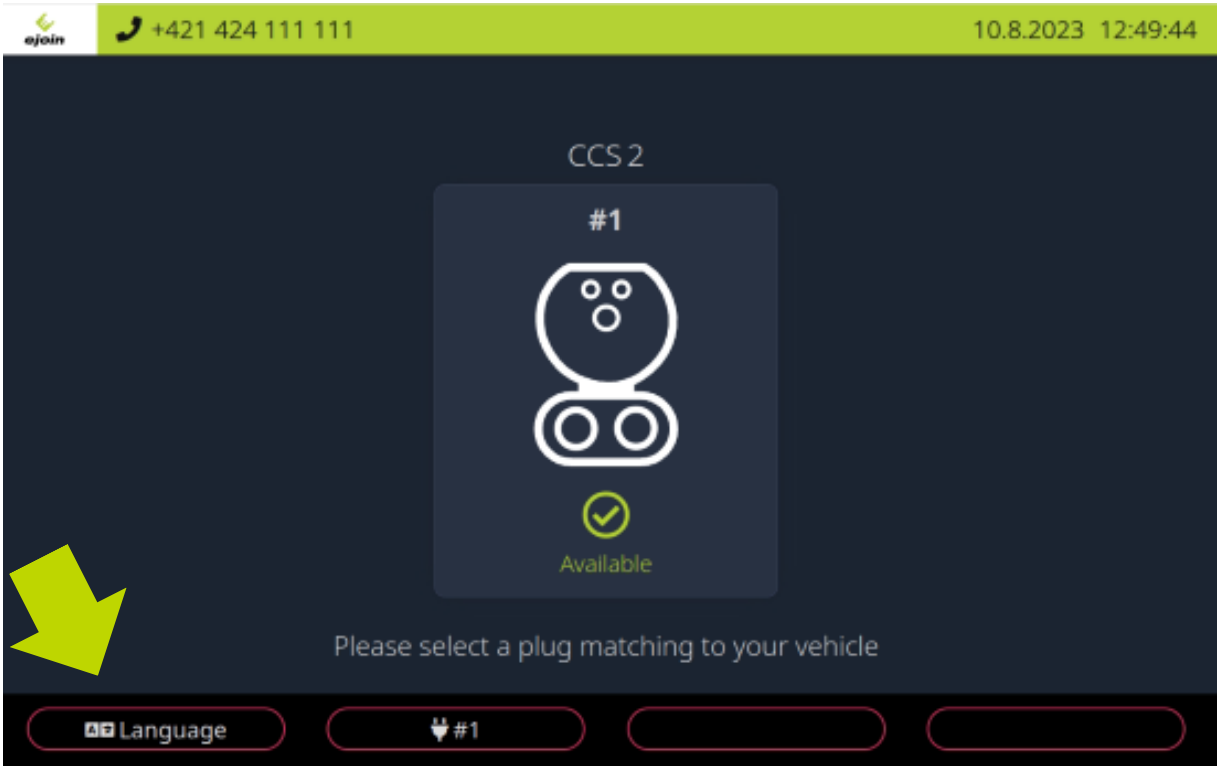
!!! ATTENTION the charging station is now under voltage. You have to pay extra attention to avoid touching a live part!!!

4. Turn off the supply voltage (in your installation, check with a meter that the charging station is really without power), turn on the breaker FA1 and FA2 again.

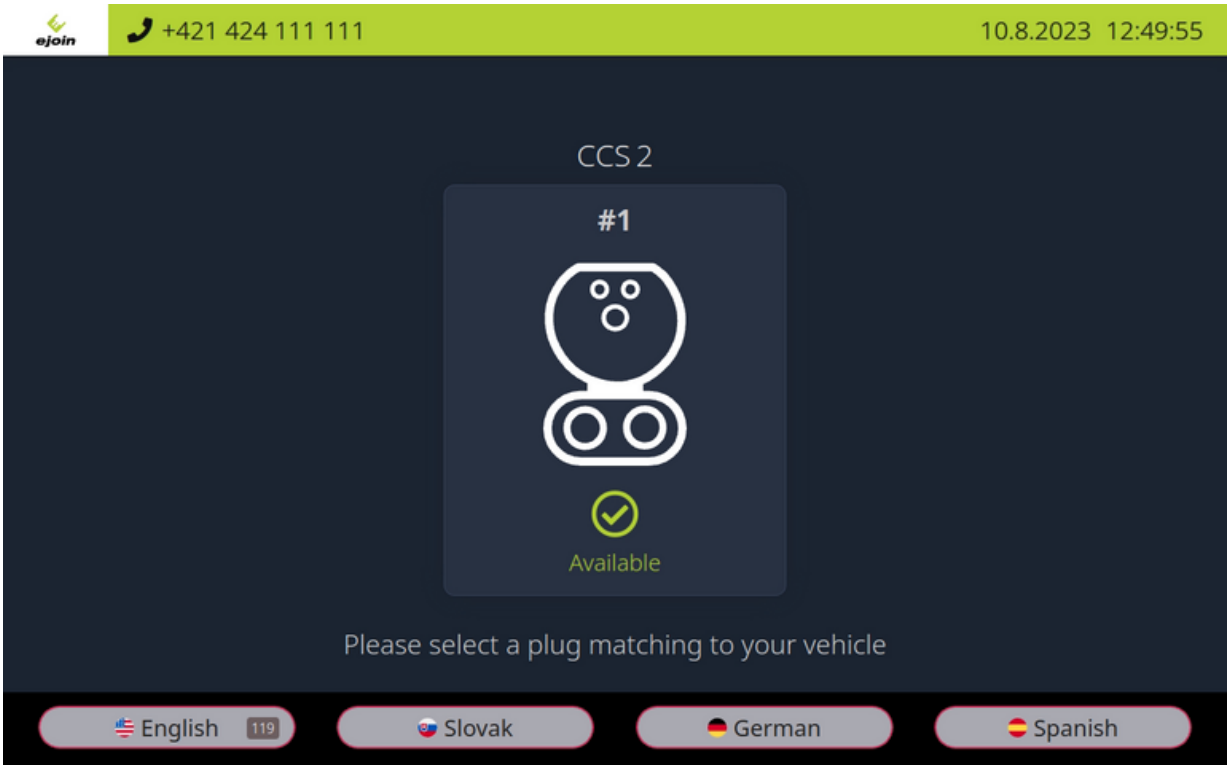
5. Switch on the supply voltage. If you have performed all the steps correctly, the LED display of the charger will light up.

Operating the Rapid Box

Click on the first button to select a **Language**.

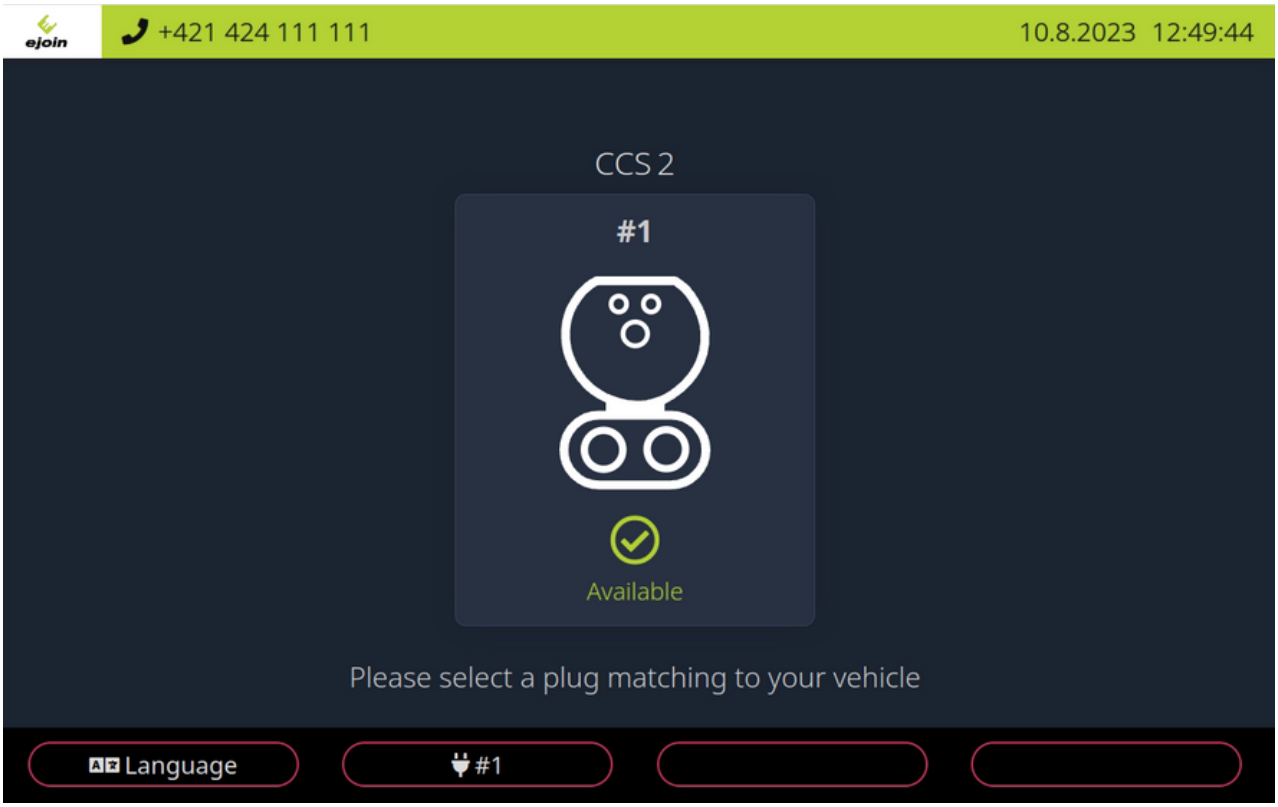


You can choose the language from several options

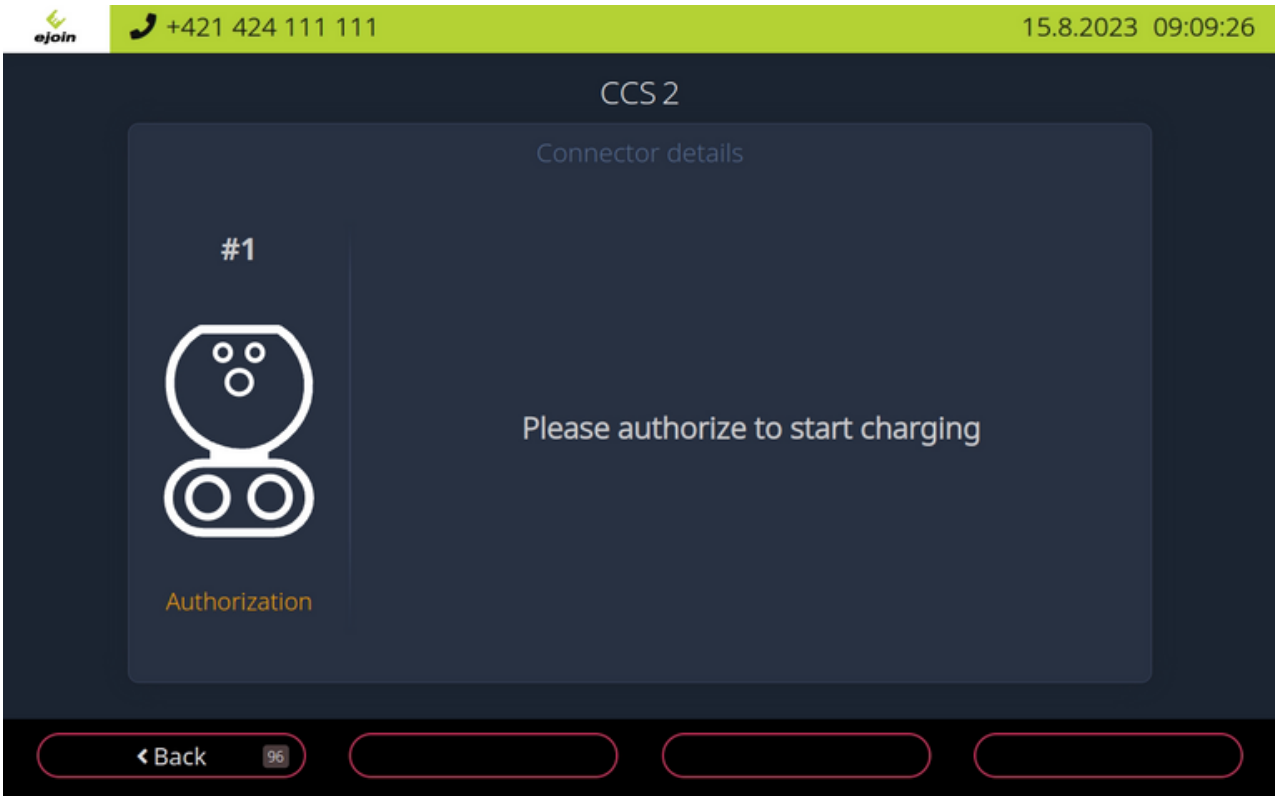


How to start a charging session

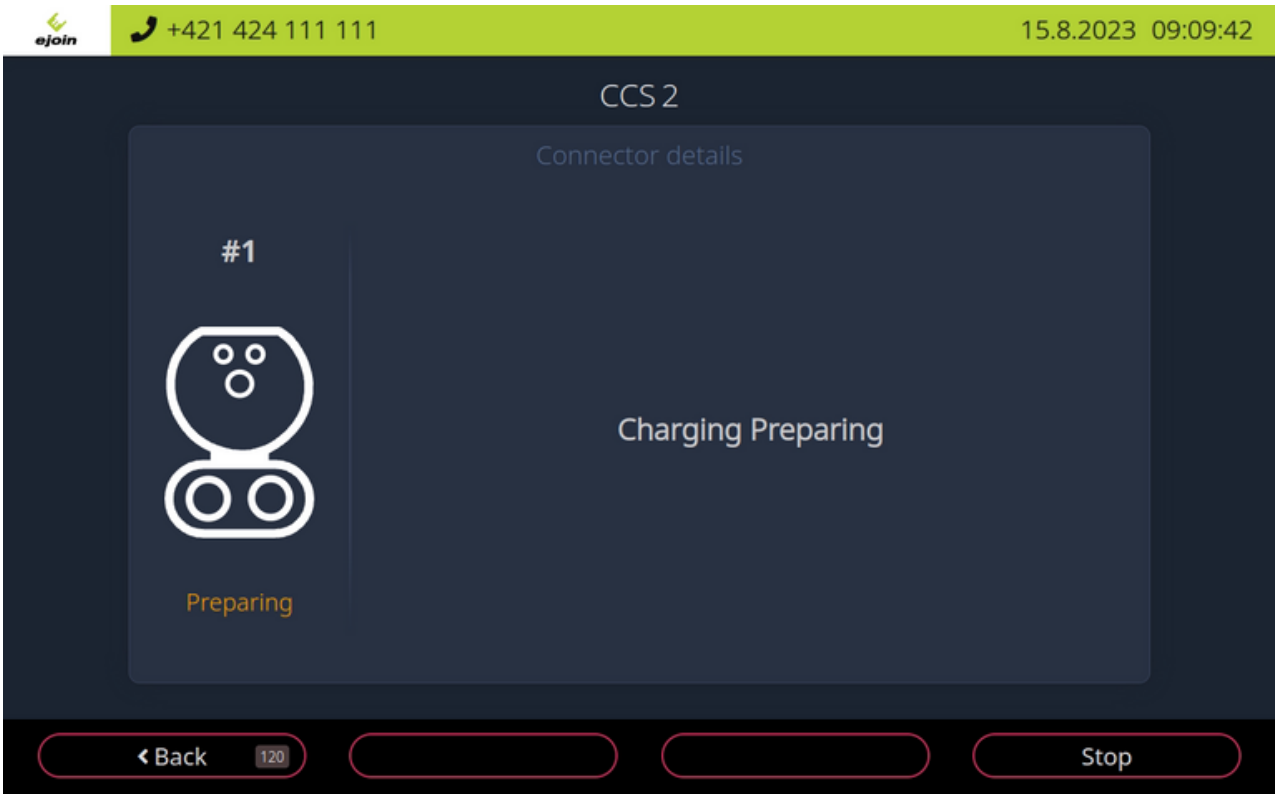
If the connector is **available**, insert the connector into the car.



Authorize yourself.



The charging session is preparing.



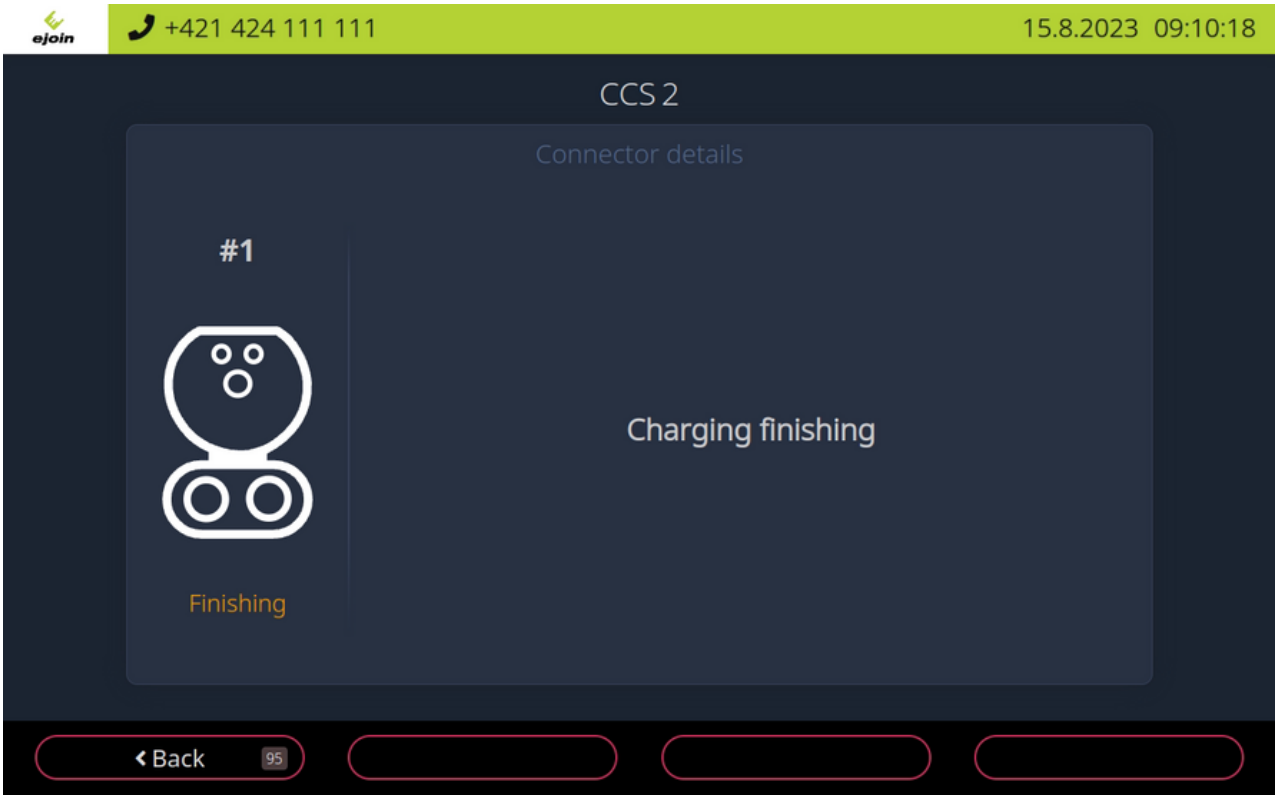
The charging session is started



End charging session by pressing **Stop**.

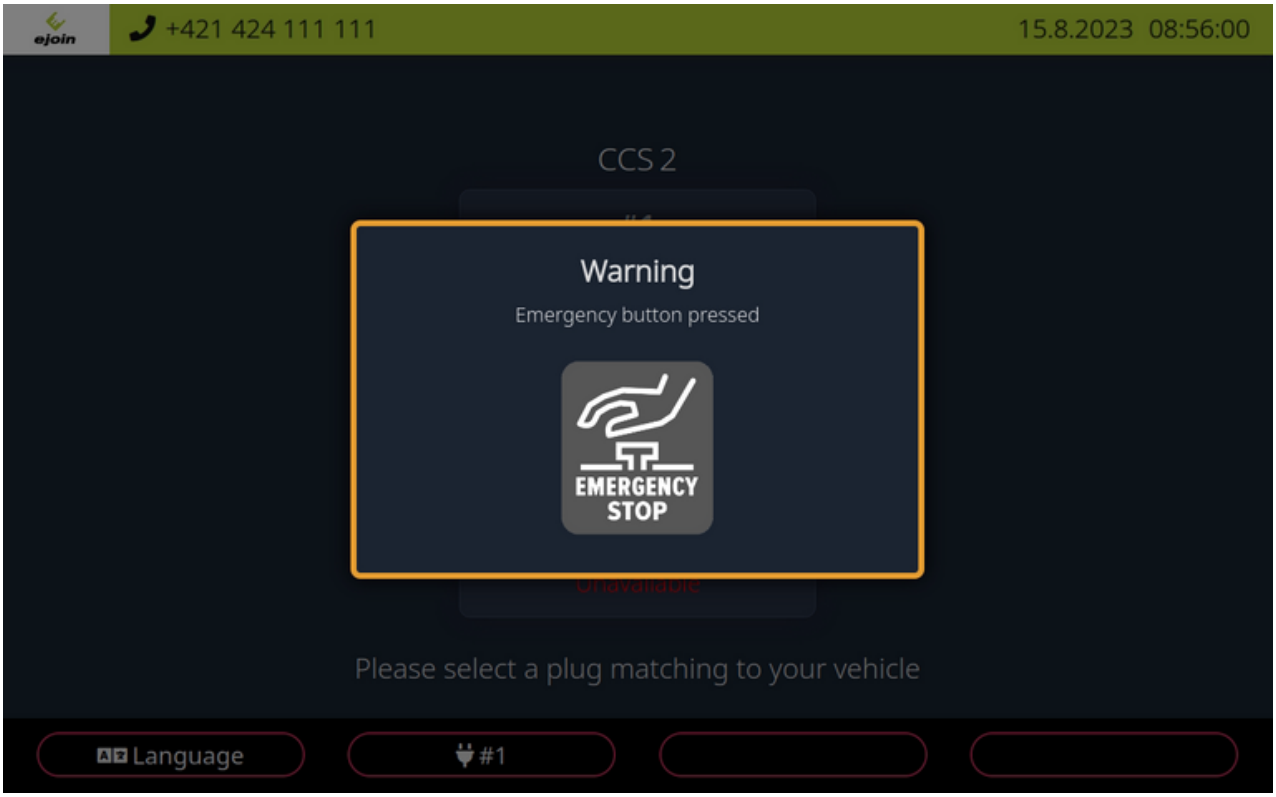


Charging session is finished.

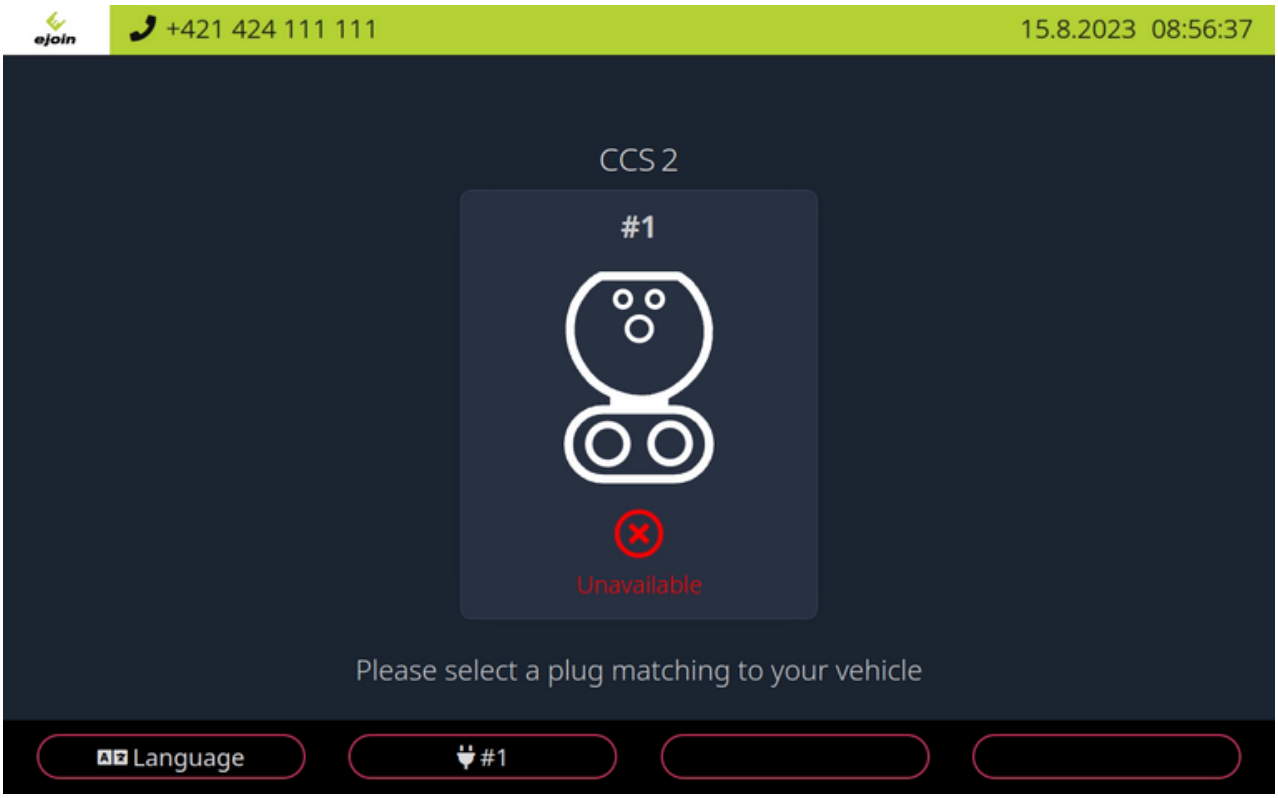


Procedure for error message

Pressed Emergency stop.



Connector unavailable. Charging is not possible.
Please contact the operator of the charging station.



Configuration of the charging station using web interface

If your charging station is equipped with an Ethernet interface, just connect it to your local network using an Ethernet cable. It is assumed that the router of your local network uses a DHCP server to automatically assign an IP address and a DNS server address.

Immediately after connecting to the network (or after approximately 30 seconds after starting the charging station), by long pressing the "Back" button on the keyboard (the < symbol in the circle at the bottom left), general information about the charging station will appear:

Connect to the same local network with any device supporting Internet connection and web browsing (PC, laptop, tablet, mobile phone...). Open a web browser and in the address line enter the IP address that is listed on your general information screen with the prefix "http://" (ie http://127.0.1.1 in our case) You should see the same screen as in in the case of connecting the charging station via a WiFi network:

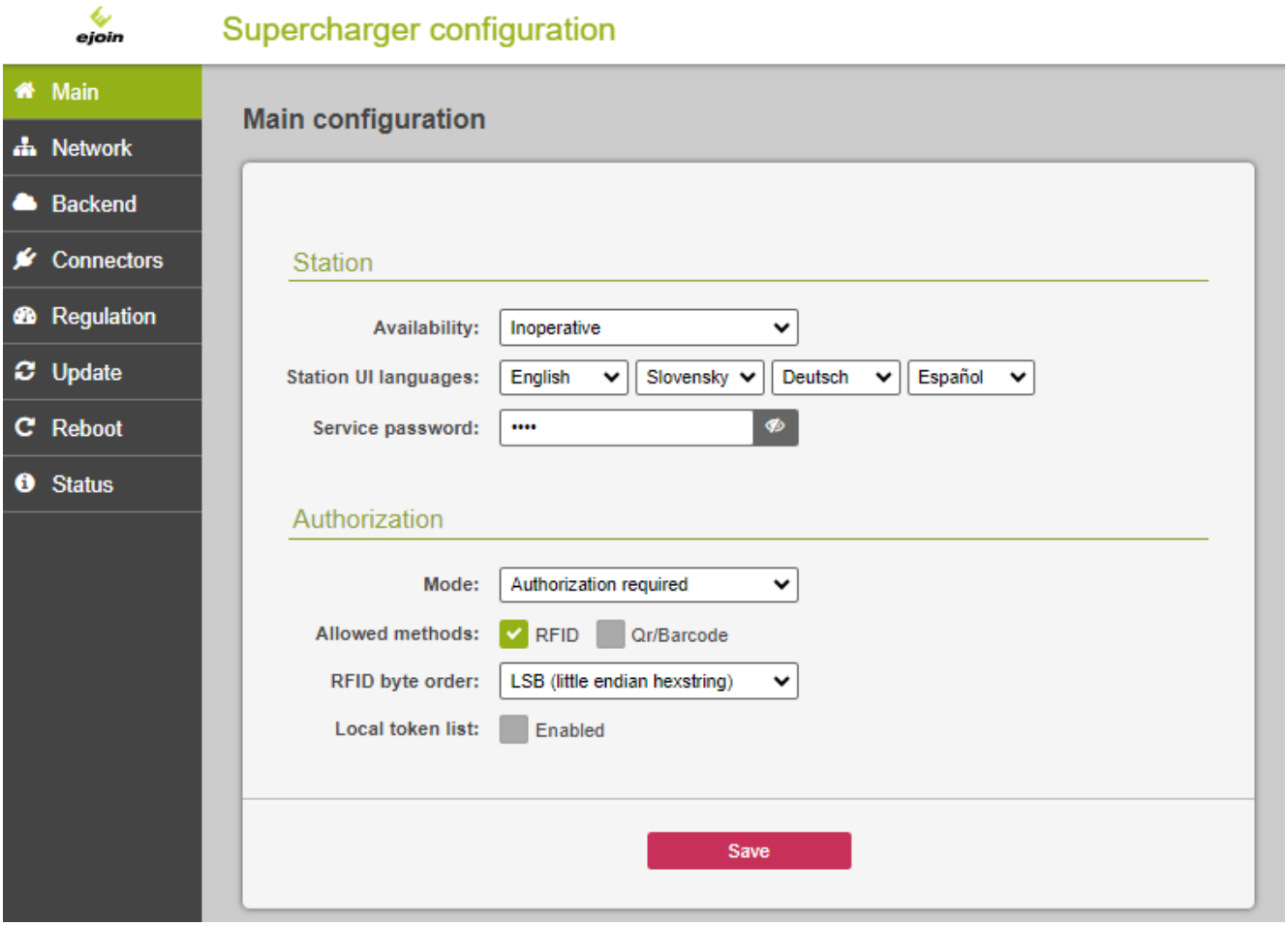


Charging station control interface	
Station ID	DC
Station model	RB-F1.40.1-AL4X.A001
Serial number	23061702
Backend status	Successfully connected
IP address	192.168.111.180
MAC address	E4:5F:01:EC:D9:97
Firmware version	SC.2308.1580
Uptime	0 day(s) 00:04:13
Status	1: Available

Settings

By pressing the button ,,Settings", you will see a web browser message asking you for user name (enter: user) and password (also: user). You will see a screen where you can configure your charging station.

„Main Configuration“ tab



Station – contains basic configuration parameters

Availability – the option to choose whether the charging station will be **operative** or **inoperative**

Station UI Languages – (applicable only for charging stations equipped with a display) – Sets the languages available to the user on the display and their order. The default language is at the far left

Service password – sets the password for entering the configuration mode (the default value is "user")

For security reasons, it is recommended to change the Service password value immediately when configuring the charging station for the first time!

Authorization– contains configuration parameters related to authorization

Mode –in this option you can set the **authorization required** or without authorization - **free charging**

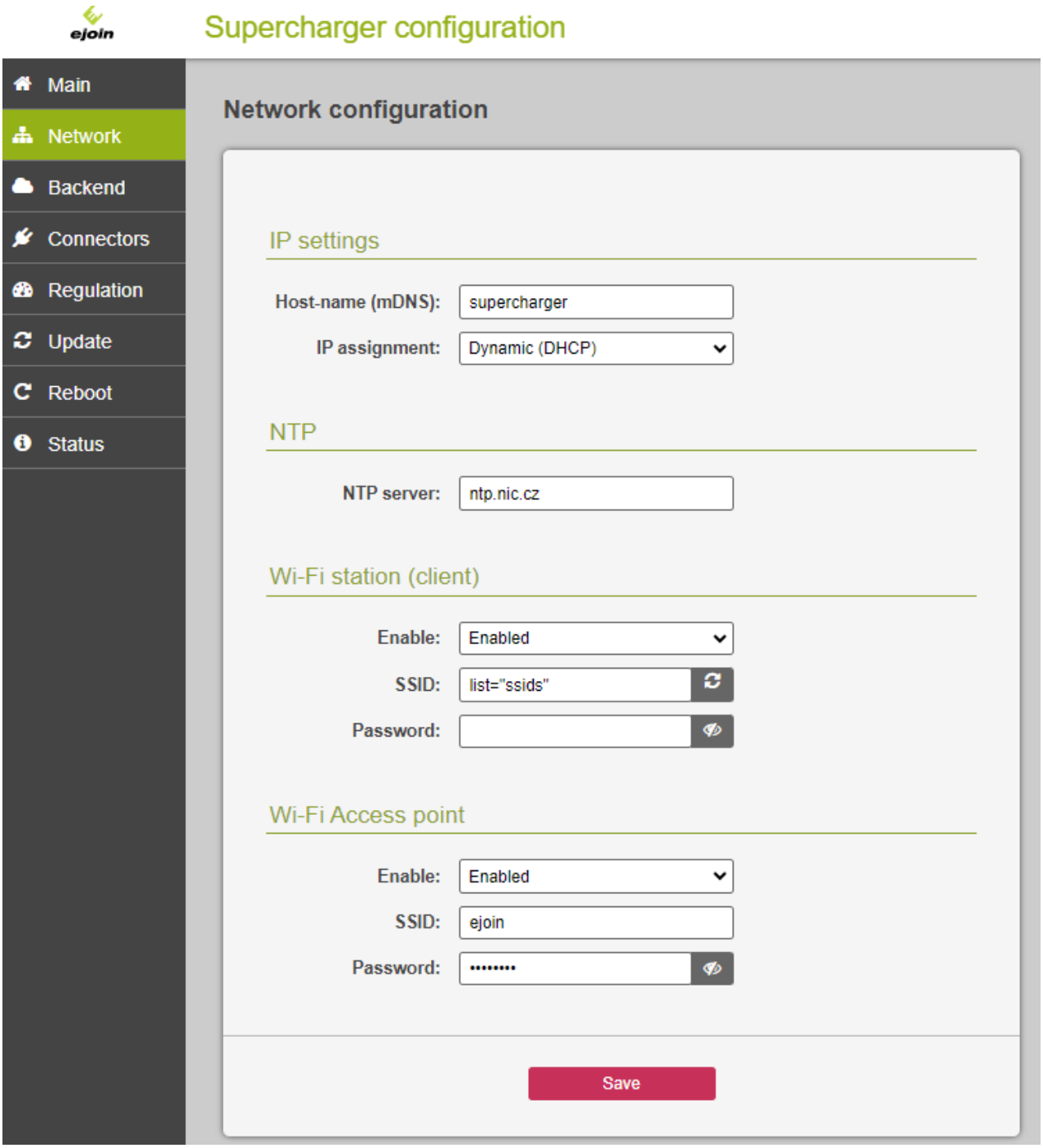
Allowed methods – will allow, or disables authorization by the appropriate method. **RFID** authorization is applicable if the charging station is equipped with an RFID reader. The **Qr/Barcode** setting is not used and serves as a reserve.

RFID Byte Order – determines the order in which the unique identifier of the RFID card will be sent to the superior server (backend) via the OCPP 1.6 protocol. It is only relevant if RFID authorization is enabled and if the charging station is equipped with online connectivity with a connection to the backend

Local Token List – in this option you enable Local Token List

„Network“ tab

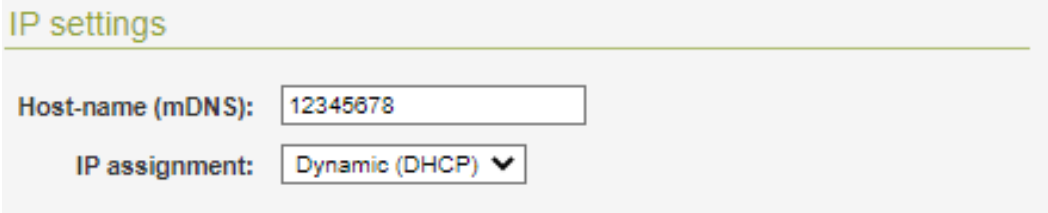
IP settings – basic settings of the IPv4 protocol with which the charging station communicates on the network



Host-name (mDNS) – it's a host name which uses simplified entry to the web configuration website.,i.e. if its set to for example as ,,12345678", then in the local network all that you will need to connect to the station's interface is to enter the address http://12345678.local into your browser.

The mDNS protocol only works reliably within an Ethernet network (ie not WiFi)!

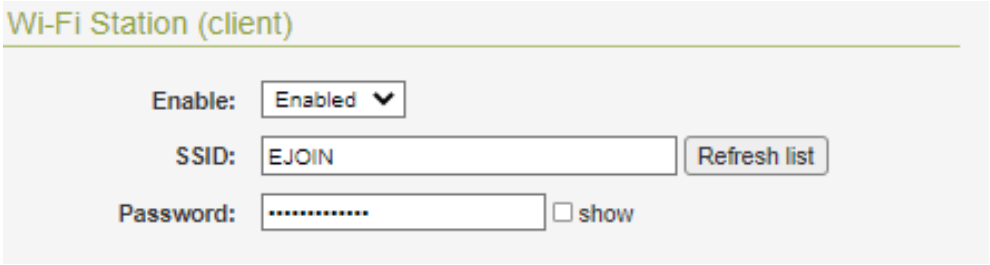
IP assignment – IP address selection assignment on the charging station. Default setting is **,, Dynamic (DHCP)"** – meaning that the charging station IP address is assigned by the router, which the station is connected to. If the charging station is being used in the network that does not have the DHCP server, or you would like to set the IP address manually, you have to choose the **,,Static"** option. It will open more options for static IP address configuration (**static IP address**), default network gateway (**Default gateway**), Subnet Mask and DNS server (DNS). Option Static is only recommended for advanced users familiar with the computer networks and their administration.



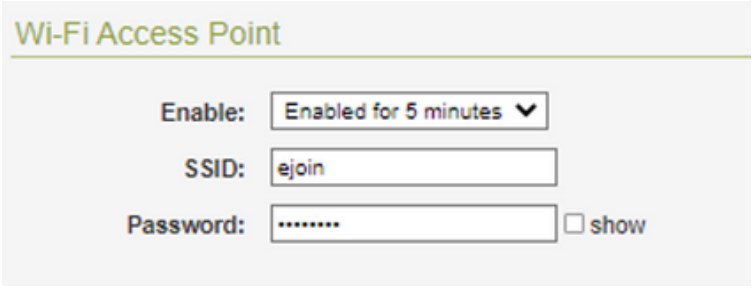
NTP - contains settings related to the server for time synchronization via the internet (Network Time Protocol).

NTP server – configuration parameter with the server address for time synchronization via the internet.

Wi-Fi Station (client) – Here you will find settings for connecting the charging station to the WIFI. It is disabled by default so the charging station is not connecting to any WIFI. If you would like to allow the WIFI connection, change it to Enabled. Immediately after the change, the charging station starts searching for available access points. When the search is finished, clicking on SSID parameter displays a list of available WIFI networks along with the signal strengths. For successful connection you must select the appropriate available WIFI network and set up the Password.
For refreshing the WIFi list, press the Refresh list button.



Wi-Fi Access Point – allows changing the behavior of the charging station as an access point.



Enable – contains options Disabled (entry point forbidden), Enabled (entry point active), Enabled for 5minutes (the access point is only active for 5 minutes from the start of the charging station)



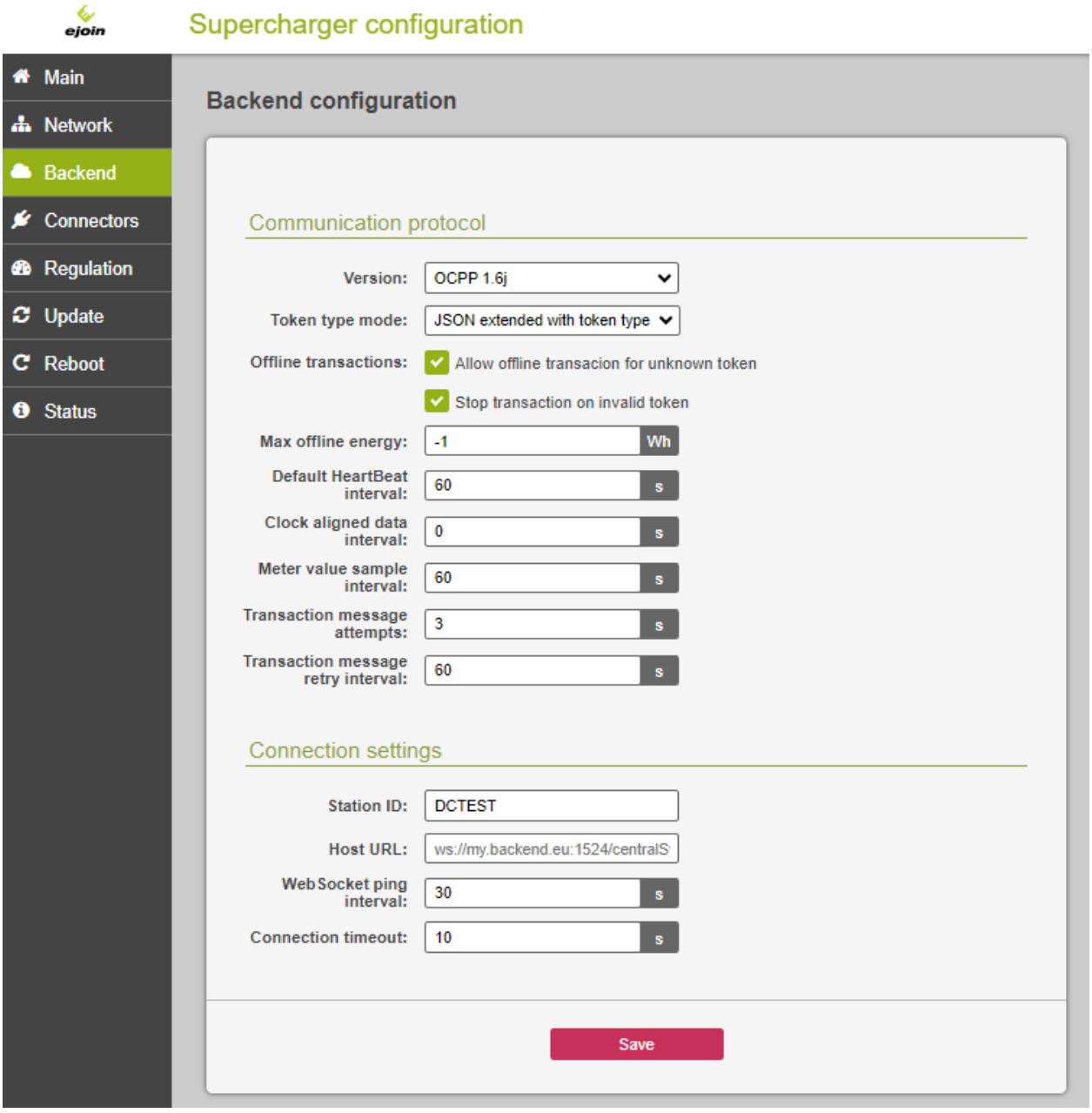
When configurating the charging station for the first time, this access password must be changed, to prevent third parties form connecting to the station´s WiFi network.

SSID – name of charging station's WiFi network

Password – access password for charging station's WiFi

„Backend“ tab

On this tab are located configuration parameters for communication wit
h the parent server.



Communication protocol – if you want the charging station to connect to the parent server (one that collects history of charging, manages the authorizations and charging station activity), it is necessary to select an option **“OCPP 1.6j**”, which means the communication will take place through the OCPP1.6 JSON protocol. Other protocols are not implemented yet. If you do not want to communicate with the parent server, select the option **“no protocol”**.

Version – communication protocol **"OCPP 1.6j"** or "**No protocol (offline)"**

Token type mode – „Authorization“ and „Start Transaction“ message extended by token "type" and "info" field like in OCPP 2.0.1 or prefixed token

Offline transactions – in case of offline transactions it is possible to mark **"Allow offline transaction for unknown token"** and **"Stop transaction on invalid tokem"**

Max offline energy - maximum energy in Wh delivered when an identifier is invalidated by the Central System after start of a transaction (-1 for no limit)

Default HeartBeat interval - setting the HeartBeat interval it sends to the backend

Clock aligned data interval - setting the size (in seconds) of a set of evenly spaced aggregation intervals per day, starting at 00:00:00 (midnight). For example, a value of 900 (15 minutes) indicated that each day should be divided into 96 15-minute intervals. A value of "0" should be interpreted to mean that no clock-sorted data should be transmitted

Meter value sample interval - interval between sampling of metering (or other) data, intended to be transmitted by "MeterValues" PDUs. A value of "0", is to be interpreted to mean that no sampled data should be transmitted.

Transaction message attempts - How often the Charge Point should try to submit a transaction-related message when the Central System fails to process it

Transaction message retry interval - How often the Charge Point should try to resubmit a transaction-related message when the Central System process

Station ID – unique charging station identifier as seen on the parent server. It may contain letter –number symbols

Host URL – complete address of the parent server with which the station uses to communicate OCPP 1.6 JSON. It is in the following form:

ws://subdomain.domain.xxx:port/atd where “subdomain.domain.xx” is complete domain with the server suffix, port is a number between 1 and 65535

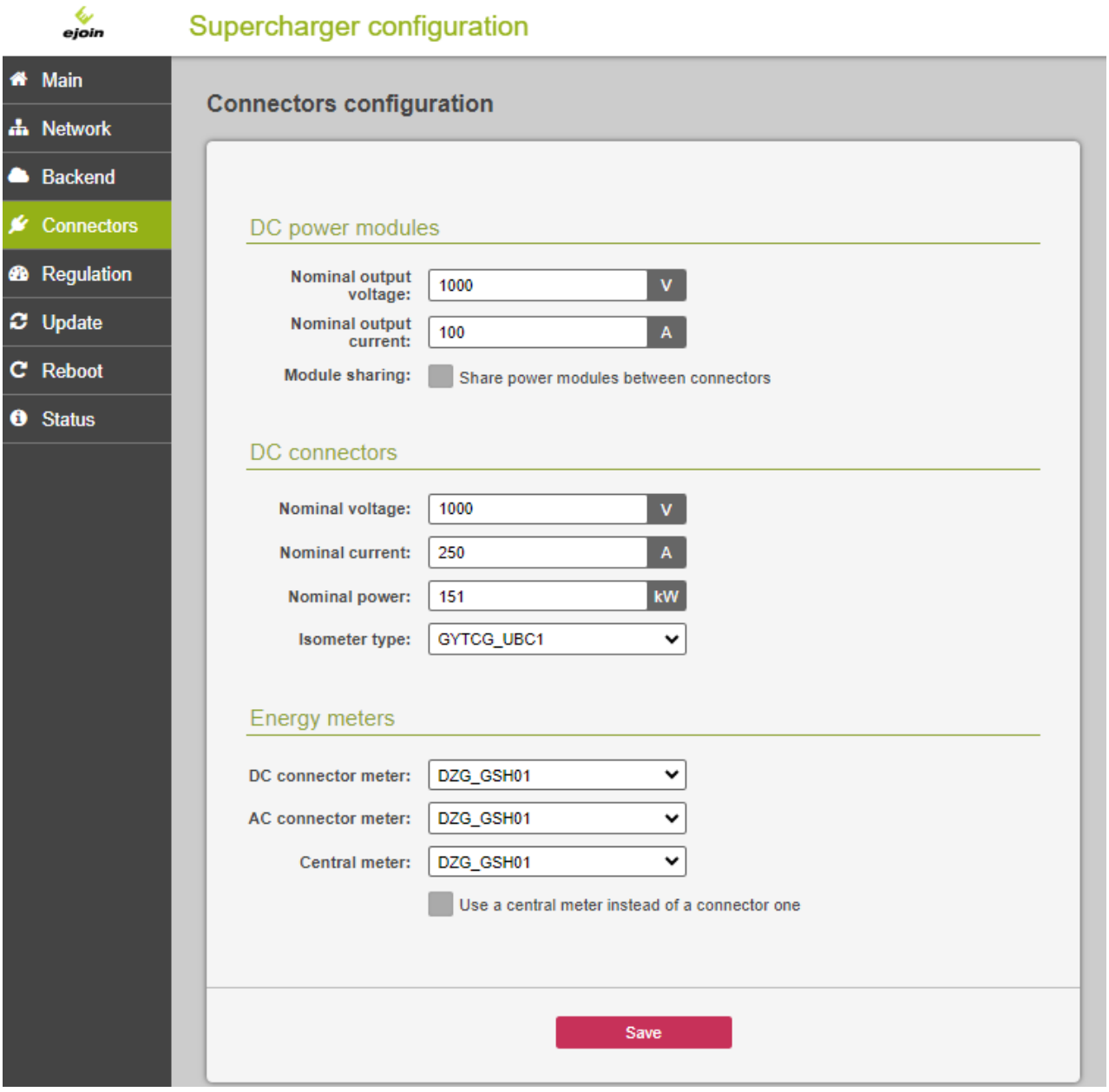
wss://subdomain.domain.xxx:port/atd for encrypted protocol TLS.

WebSocket ping interval - How often ping will be sent

Connection timeout - time after which ping should timeout if not received

„Connectors" tab

On this tab, the parameters of the DC power modules, DC connectors or energy meters



DC power modules - contains the basic configuration parameters of the power module

Nominal output voltage - it indicates the maximum voltage for the inverters

Nominal output current - it indicates the maximum current for the inverters

Modules sharing - module sharing settings (if you have multiple power modules)

DC connectors - contains the basic configuration parameters of the connectors

Nominal voltage - it indicates the maximum voltage for the connectors

Nominal current - it indicates the maximum current for the connectors

Nominal power - it indicates the maximum power for the connectors

Isometer type - sets the type of isometer used in the charging station. For **Rapid Box** select **"GYTCG_UBC1"**, for **Rapid Charge** select **"GYTCG_UBCH2".**

Energy meters - contains the basic configuration parameters of the energy meters

DC connector meter - sets the type of electricity meter used in the charging station. For **Rapid Box** select **"DZG_GSH01"** or **"EastronSDM630"** , for **Rapid Charge** select **"EastronDCM230**".

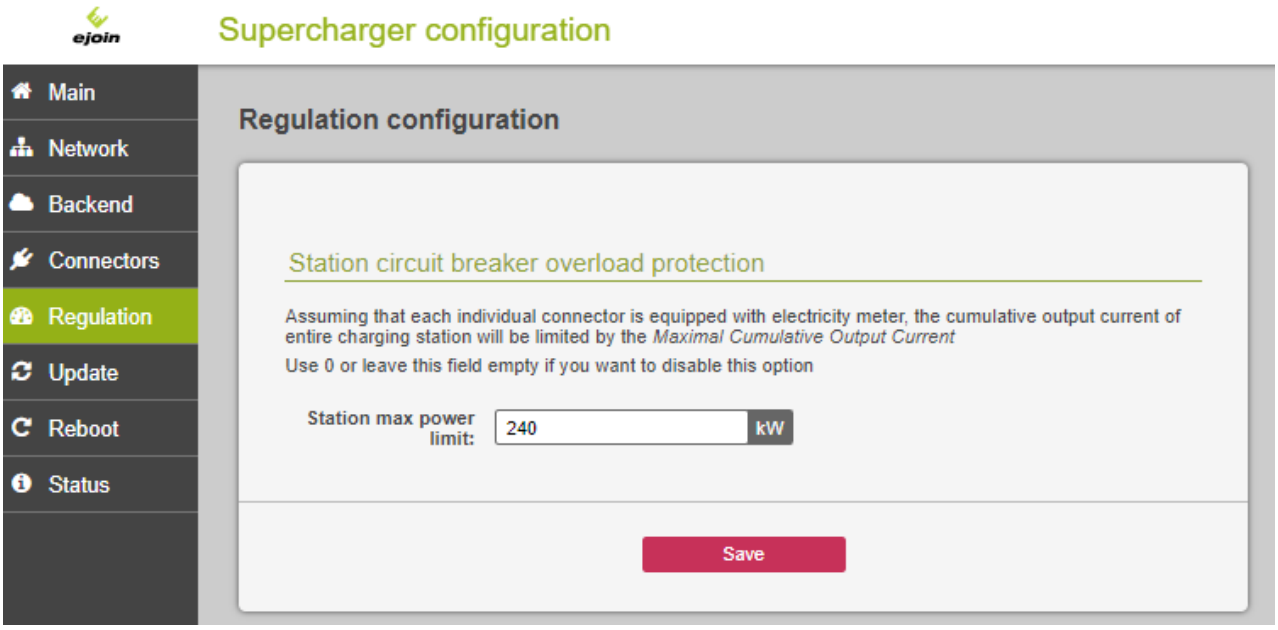
AC connector meter - sets the type of electricity meter used in the charging station. For Rapid Box select **"DZG_GSH01"** or **"EastronSDM630"** , for Rapid Charge select **"EastronSDM230**".

Central meter - sets the type of electricity meter used in the charging station. For Rapid Box select **"DZG_GSH01"** or **"EastronSDM630".**

Use a central meter instead of a connector one - Check this option only if you have **Rapid Box**

„Regulation configuration" tab

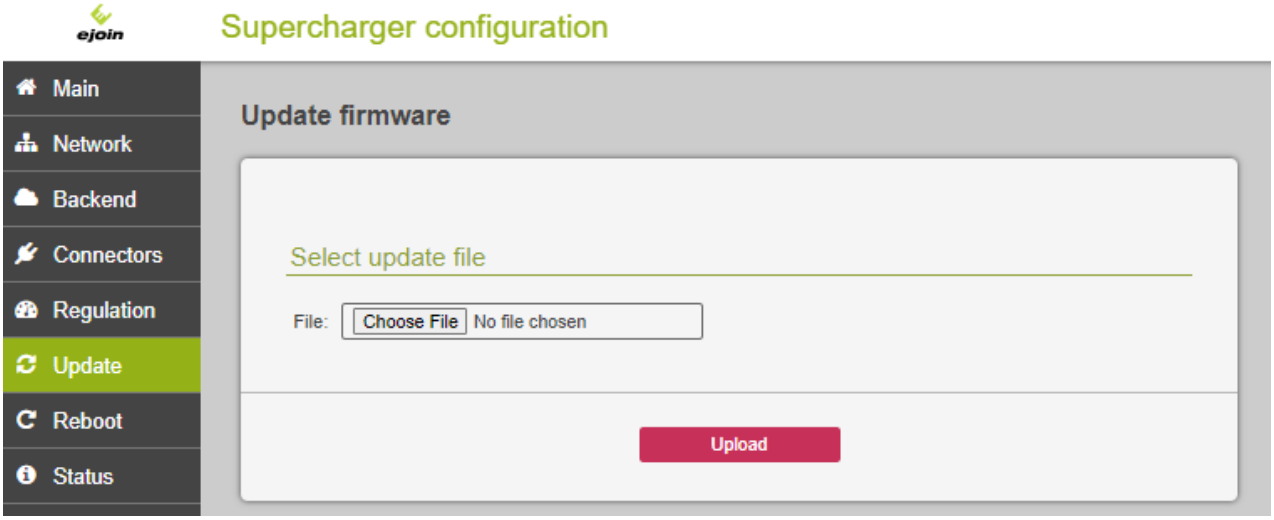
Parameters for limiting the maximum charging power for the charging station are set on this tab.



Station max power limit - maximal output power charging station

„Update“ tab

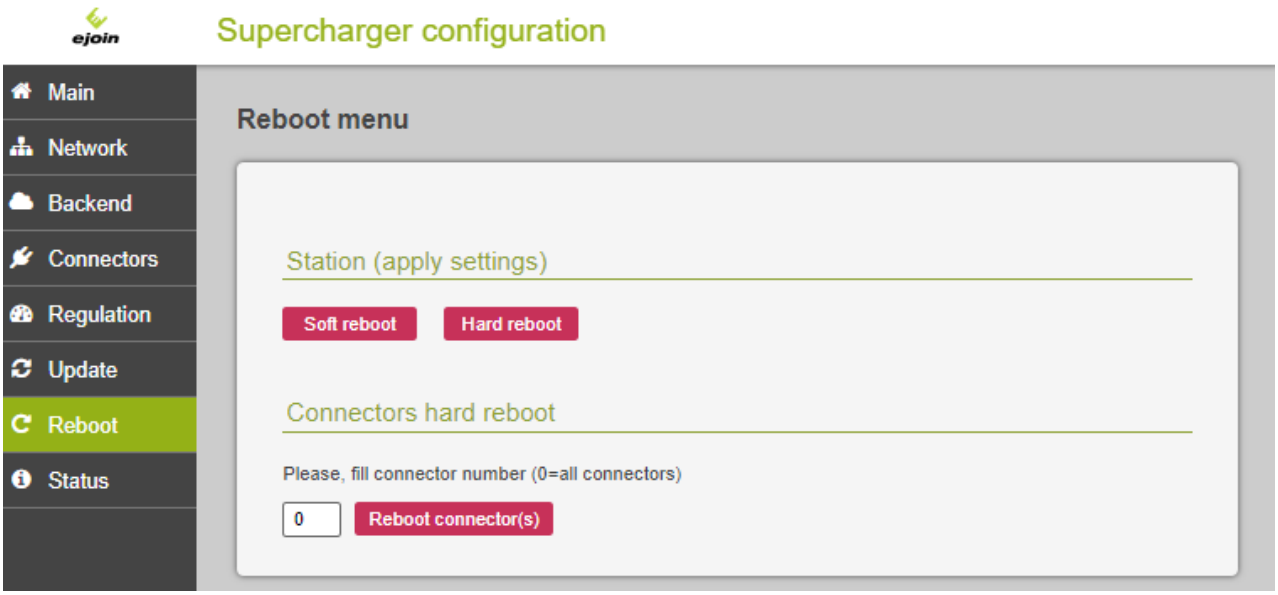
Charging stations are equipped with the option of updating and upgrading the firmware. This function enables updating the software of the communication modulate and as well as subordinate control system controlling charging and communication with the user.



For the update, select the appropriate file with the new software and click the “Upload” button. You will then be able to monitor the progress of the update in the window. A successful update ends with automatic restart of the relevant module that was updated. However, it is recommended to perform a complete manual restart of the charging station – see Tab “Reboot”.

„Reboot“ tab

On this tab it is possible to restart the charging station as a whole or its individual subsystems.



Clicking **"Soft reboot"** will reboot the charging station software.
Clicking **"Hard reboot"** will reboot the main communication module.
Clicking **"Reboot connector(s)"** will reboot the specified number of connectors.

„Status“ tab

Displays the introductory screen that you see after connecting to the IP or the charging station's domain.

Technical informations

Mechanical properties

Work position	Arbitrary
Assembly	On the ground
How to store the charging cable (does not apply to the charging station equipped with a socket)	Charging stations equipped with a direct charging cable:
Mechanical strength	IK10
The distance of surrounding objects from the charging station	At least 20 cm from the nearest edge
Instrument box material	Stainless steel
Minimum level of coverage of the instrument box after assembly	IP54

Electrical properties

Power network	3x400V/230V/50Hz TN-C-S/TN-S
Connection type to the power supply network	**Three-phase**: 3P+N+PE
Supply voltage tolerance	10%
Supply voltage frequency tolerance	1%
Maximum performance	60kW or 240kW
Maximum charging current	160A to 350A
Power consumption of the charging station at rest (without charging)	Less than 30W
Charging mode	2
Charging connector	IEC 62196 CCS 2

Overcurrent protection	It is not part of the charging station, it is necessary to connect a fuse or a 50A or 80A circuit breaker with a B-type switching characteristic and a switching capability selected according to the characteristics of the power network in front of the power supply.
Trip capability of integrated fuse (if implemented)	6kA or 10kA
Characteristics and rated current of the integrated fuse element (if implemented)	B100 to DEON 350A
Protection class	1

Integrated electricity meter (if included in the charging station, the type of electricity meter may differ)

Type of electrometer	CE
Imported energy measurement accuracy (Wh)	Class 1 according to IEC EN 50470-1 (with MID type)
Measurement accuracy of current imported active power (W)	0,5% (for MID type)

Other parameters

Operating temperature	-40 to +75°C
Storage temperature	-40 to +75°C
Relative humidity	Max. 95% (non-condensing)
Hight about sea level	Max. 2000 meters about medium sea level
Cooling	Active
Use	Outdoor and indoor
Noise level	55dB

Specific instructions for periodic revisions

According to the relevant standards and legislation, the charging station must be subject to a regular inspection, which must be carried out by an authorized person. The information presented in this section is intended for professionals.

Checking the insulation resistance of the charging cable

The measurement must be performed in a voltage-free state, when wires L1, L2, L3 and N are disconnected by the contactor. At the same time, it is necessary to disconnect the main connector of the control system, which ensures the disconnection of the CP wire from the control system. The protective conductor of the PE cable remains connected to the ground and the PE conductor of the supply. The insulation resistance between the wires PP (if it is connected to the terminal block) and PE is not measured, since a small impedance is connected between these wires in the charging connector (approx. 220Ω, it is possible and convenient to verify, e.g. with a multimeter)..

Information about protective earthing

The charging station contains a galvanically isolated low-voltage source, the negative pole of which is connected to protective earthing (PE). The connection can be disconnected by pulling out the connectors from the board of the CCU1 control system.

Maintenance



In order to preserve the safety of the people operating the charging station and to protect material assets located near the station, it is necessary to carry out regular inspection and maintenance of the equipment.
Some of the listed operations can only be performed by a person with the relevant qualifications, and their performance may be associated with a regular revision of the device.
The table does not include all the tests that are performed during regular revision, their list and scope is given in the relevant standards.

Final Information

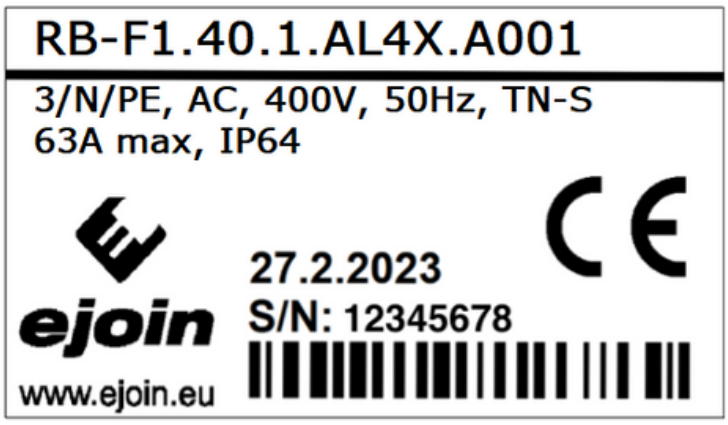
Warning

In case problems occur when using the charging station (the device does not work, works differently than usual, you detect unusual smell, register smoke or any other sign of possible failure), try to stop the charging standard way and disconnect the charging station from the power supply. Then contact your distributor or manufacturer of the charging station and consult with them about the next steps.

!!! Under no circumstances attempt to repair the device yourself!!!

Product marking

Each ejoin charging station bears a manufacturer's label (production label) according to the following pattern:



Warning according to STN EN 61851-1 In the terms of STN En 61851-1 it is forbidden to use extension cable,
or second cable assembly.

Disposed of the charging station







In the interest of the environmental protection, this charging station must not be disposed of together with municipal waste.
It is therefore necessary to hand over the charging station to a collection yard or a company that deals with the disposal of electrical waste after the end of its lifespan.
Packaging material in which the charging station was stored, as well as this instruction were made out of paper or plastic which can be recycled and you can dispose of it with municipal sorted waste.

Certificates

Ejoin charging stations bear the CE mark (see the manufacturer's sticker located on the charging station). The relevant declaration of conformity is also available on the manufacturer's website.



Information about the origins

Ejoin charging stations are products that were developed and manufactured in Slovak Republic. (EÚ)







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