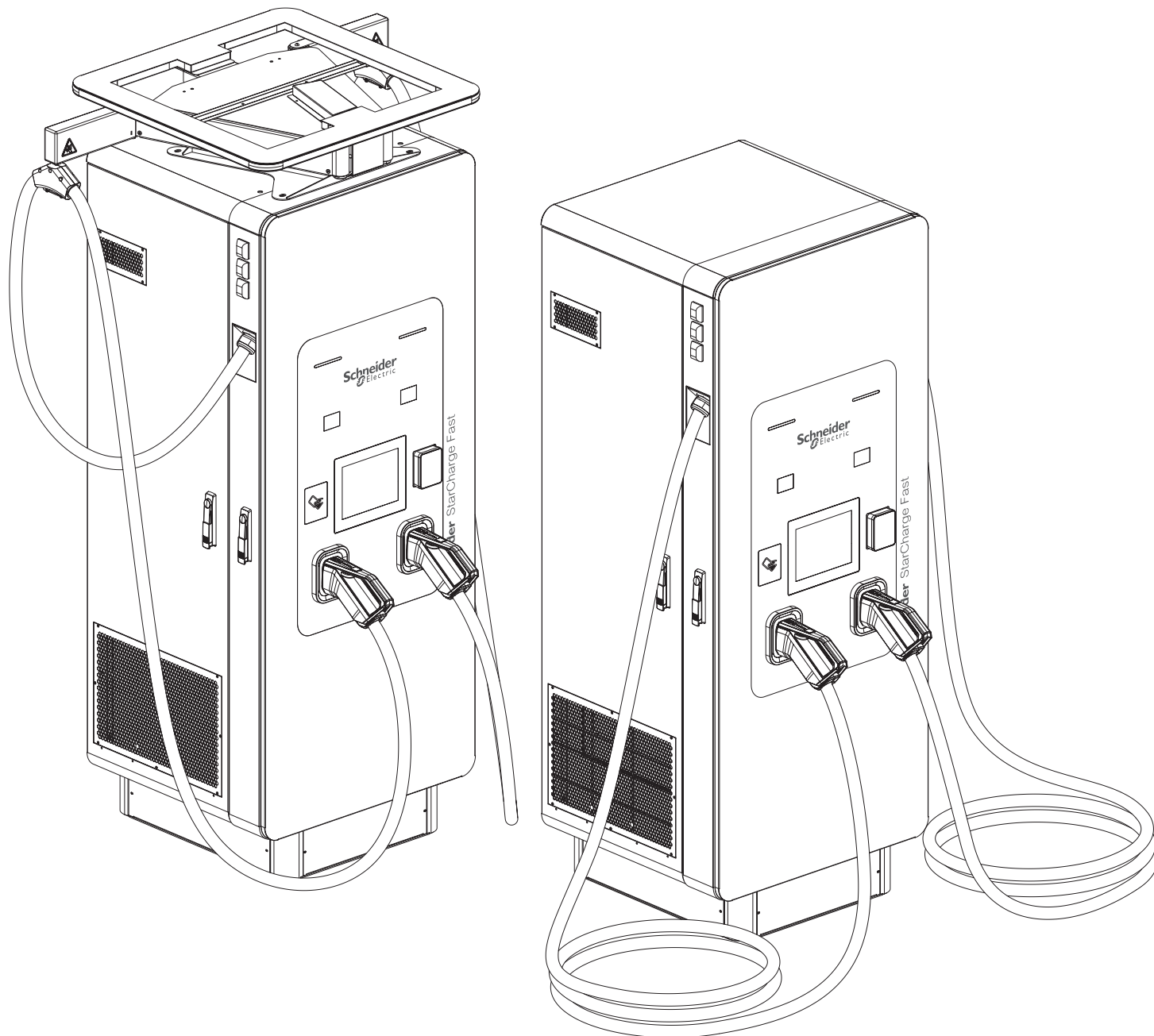
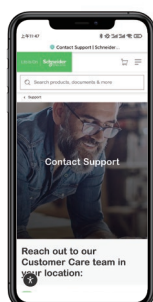


en Owners guide

Schneider StarCharge Fast 320 Charging Station
Schneider StarCharge Fast 180 Charging Station



Customer Care Center



General.....3

Preface.....4

1. System Overview.....5

1.1 Charging Stations Configurations.....6

1.2 Authentication Modes.....6

1.3 Payment Methods.....6

1.4 LED Status Indicator.....7

1.5 Languages.....7

1.6 Tariff.....8

1.7 Charge Session DC Meter Reading.....8

2. User Instructions.....9

2.1 Basic Charging Steps.....9

2.2 Charging Authentication Modes.....9

3. Consumption Statistics.....13

3.1 Charging Session Statistics.....13

3.2 Charge Session Report.....13

3.3 Screen saver and logo change.....13

4. Preventive Maintenance.....14

Regular Maintenance.....14

5. Recycle.....15

Radio Equipment Conformity.....15

Appendix 1: Power Upgrade Process.....16

Legal Information



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General

Warning Symbols Definitions

The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or "Warning" safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol.
It is used to alert you to potential personal injury hazards.
Obey all safety messages with this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result** in death or serious injury.
Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result** in death or serious injury.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.
Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.
Failure to follow these instructions can result in equipment damage.

Safety Instructions

⚠ ⚠ DANGER

HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

- Read and follow all warnings and instructions before installing and operating the Schneider StarCharge Fast Charging Station. Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.
- The product must be installed according to the specifications and requirements as defined by Schneider Electric. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- Always inspect the Charging Station for proper installation before use.
- Always ground the Schneider StarCharge Fast Charging Station. Failure to ground the charging station can lead to risk of electrocution or fire. The charging station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal.
- Install the Schneider StarCharge Fast Charging Station on a concrete pad according to the Schneider Electric approved method. Failure to install on a surface that can support the full weight of the charging station can result in death, personal injury, or property damage.
- This charging station is not suitable for use in or around hazardous locations, such as near flammable, explosive, or combustible materials.
- Do not install the Schneider StarCharge Fast Charging Station until all construction work has been completed and the installation area has been cleared & cleaned.
- Do not use this product if the enclosure, Electric vehicle cable, or the Electric vehicle connector is broken, cracked, open, or shows any other indication of damage.
- Do not put fingers into the electric vehicle connector.

Failure to follow these instructions will result in death or serious injury.

CAUTION

HAZARD OF DEGRADATION OF EQUIPMENT PERFORMANCE

- Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards.
- Schneider Electric is not responsible for any damages that may result from custom installations that are not described in this document or for any failure to adhere to installation recommendations.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

RISK OF DAMAGING

- Before installing the Schneider StarCharge Fast Charging Station, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances.
- A qualified person is one who has the skills and knowledge related to the construction, installation and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Failure to follow these instructions can result in equipment damage.

Preface

This guide describes the operation and maintenance of the Schneider StarCharge Fast 120 or 180 or 240 or 320 Charging Stations. The Schneider StarCharge Fast Charging Stations are easy to install DC fast Charging Stations for electric vehicles. Fast Charging Stations are electrical installations with high electric currents. Therefore, any maintenance must be planned carefully, and must be done by certified personnel only (according to local standards).

The Schneider StarCharge Fast 120 is physically the same Charging Station as a Schneider StarCharge Fast 180. The Schneider StarCharge Fast 240 is physically the same Charging Station as a Schneider StarCharge Fast 320. The main difference is the output power it can deliver and therefore also the input power needed. The differences of the DC120/180 and 240/320, and any difference on the operation and/or maintenance shall be highlighted.

As the physical features of all types are equal, they will be referred to hereafter as Schneider StarCharge Fast 320/180 only and this will account for all types, unless specifically stated otherwise. All types come in different versions. The different versions are described in Charging stations configurations section.

Document Application

This document serves:

Site operators responsible for the charger's operation on site, performing regular inspection and maintenance activities and who are able to perform simple maintenance activities.

The Electric Vehicle drivers who will mainly use the icons and texts on the HMI display of the charger.

However, the user interface design facilitates the user experience & it is easy to use the Charging station by following the instructions on the HMI screen.

Available Documentation

Schneider StarCharge Fast 320/180 available documents for each phase of the project:

Document	Reference	Content	Audiences
Schneider StarCharge Fast 320/180 Datasheet	998-23818000	Full Charging Station specifications	Site designer, installer, and station operator
Schneider StarCharge Fast 320/180 Installation Guide	NAT2513801	Civil, mechanical, and electrical installation guidelines	Site engineer or installer/contractor
Schneider StarCharge Fast 320/180 Commissioning guide	NAT2514000	Electrical and Communication guidelines	Site engineer or installer/contractor/station operator
Schneider StarCharge Fast 320/180 Owners Guide	NAT2513900	Operation and maintenance guidelines	Site operator and end user
Schneider StarCharge Fast 320/180 OCPP guide	DOCA0311	Integration rule of charger for Charge Point Operator	Charge Point Operator/Contractor

Owner Responsibilities

The owner and/or site operator are required:

- To ensure the site where the Charging Station will be installed, is in accordance with the requirements described in the Installation guide.
- To ensure enough space around the Charging Station to carry out maintenance work.
- To ensure all protection devices are correctly installed after carrying out installation or maintenance.
- To operate the Charging Station with the protection devices installed.
- To write an emergency plan that instructs users what to do in case of emergency.
- To appoint a person responsible for the safe operation of the charge station and for the coordination of all work. This person should be properly trained by Schneider Electric.
- To contact Schneider Electric Services for the periodic maintenance of the Charging station at least once a year if not subscribed to a service plan.

Charge Point Operator Responsibilities

- A temporary buffer storage is available in the charging station, e.g. to temporarily store data package during a connection break. In general, the backend is responsible for the permanent storage of the data package in accordance with the Charge Point Operator, and the end customers will be able to access the charging data stored from the backend. The different operators with their owned backend will be informed of these requirements for complying.
- To start using Schneider StarCharge Fast payment terminal, Charge Point Operator must proceed with the registration and activation of the payment terminal on the Payter cloud platform. The commissioning of the Schneider StarCharge Fast payment terminal in Charge Point Operator's environment including the registration and activation of the payment terminal is required to enable Charge Point Operator to process payment transactions of EV drivers at the charging stations operated by the Charge Point Operator.

Payter cloud platform interfaces the payment terminals with each of the CSMS software operated by the Charge Point Operator, and the payment service providers' respective payment processing platforms. Schneider Electric does not intervene and does not bear any responsibility in the registration and activation of the payment terminals, nor in the interfacing of the payment terminals with any third-party solution.

Charge Point Operator shall have to enter into its own and separate agreements under its own responsibility with Payter to define the terms and conditions under which:

- The Payter payment terminal will be enrolled and activated on the Payter cloud platform accessed by the Charge Point Operator.
- In case of failure in the payment terminals, Payter shall provide directly to the Charge Point Operator the support and maintenance of the payment terminals, including the direct supply by Payter to the Charge Point Operator of the payment terminals and their spare parts that the Charge Point Operator will assemble (or have their subcontractors assemble) into the Schneider StarCharge Fast to replace the failure parts of the Payter payment terminals.

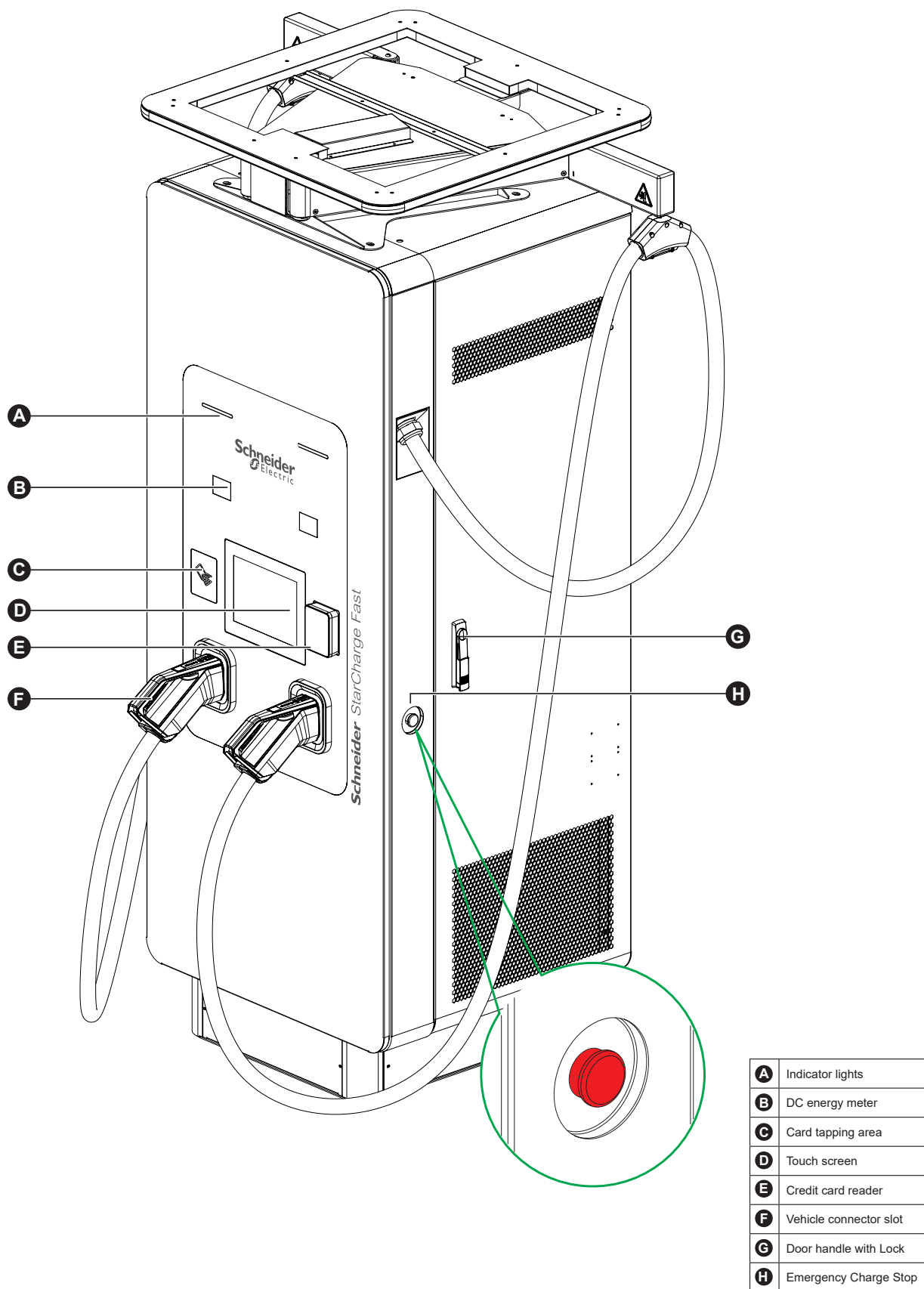
Please find below link for:

Registration of Payter Payment terminal:

<https://www.payter.com/registration>

Technical documentation related the Payter Payment terminal:

<https://www.payter.com/downloads>



1.1 Charging Stations Configurations

Type of equipment applicable to this manual: Schneider StarCharge Fast 120 - 180; Schneider StarCharge Fast 240 - 320

Commercial Reference	Nominal Power	Vehicle connector	Cable management	Cable range (m)	Payment Terminal
EVD2S320TBB	320 kW DC	2 x CCS2	Yes	3.8	No
EVD2S240TBB	240 kW DC	2 x CCS2	Yes	3.8	No
EVD2S180TBB	180 kW DC	2 x CCS2	Yes	3.8	No
EVD2S120TBB	120 kW DC	2 x CCS2	Yes	3.8	No
EVD2S320TBBCC	320 kW DC	2 x CCS2	Yes	3.8	Yes
EVD2S180TBBCC	180 kW DC	2 x CCS2	Yes	3.8	Yes
EVD2S320TBBCC7	320 kW DC	2 x CCS2	No	7.5	No
EVD2S180TBBCC7	180 kW DC	2 x CCS2	No	7.5	No

* For more customized commercial reference, please contact Schneider Electric.

DC Electric Vehicle Charging Station

Commercial ref: EVD2S320TBB DC3200EN146112
Serial Number:

Rated Input Voltage: 380-415V AC 3P+N+PE	Rated Frequency: 50/60 Hz Rated Input Current: 507A
Operating Temp.: -30°C~50°C (up to 55°C with derating)	
For industrial areas	Protection: IP55 IK10 (IK08 screen)/Class I
Connector Type (Max Output Current): A/CCS2 (300A DC) B/CCS2 (300A DC) Boost current: 500A DC	Output Voltage: A/150-1000V DC B/150-1000V DC
Rated Output Power: 320 kW	EN IEC 61851-1 EN 61851-23 IEC 61439-7

Manufactured by:
Schneider eStar
35 rue Joseph Monier
92500 Rueil-Malmaison France

UK CA CE

MFD: 8A-22-02 Made in China

Here is an example of a Charging Station nameplate..

1.2 Authentication Modes

According to the Commissioning parameters, the Schneider StarCharge Fast 320/180 operation is possible with or without authentication. Operation with authentication requires a Charging Station connected to an OCPP backend platform.

Authentication modes available:

- Authentication Required, with option:
 - RFID/NFC
 - QR code with Mobile APP
 - Payment terminal
 - EV MAC address
 - ISO 15118 Plug n Charge
- Authentication Disabled

1.3 Payment Methods

Depending on Charging Station reference and on the commissioning parameters required, Charging Stations may have several payment options:

- Mobile App
- RFID Card
- Payment Card
- ISO 15118 Plug n Charge



A - SELECT A PAYMENT METHOD

Mobile App

RFID Card

Payment card

This charger supports

Plug and Charge

Available.
Plug in vehicle connector.

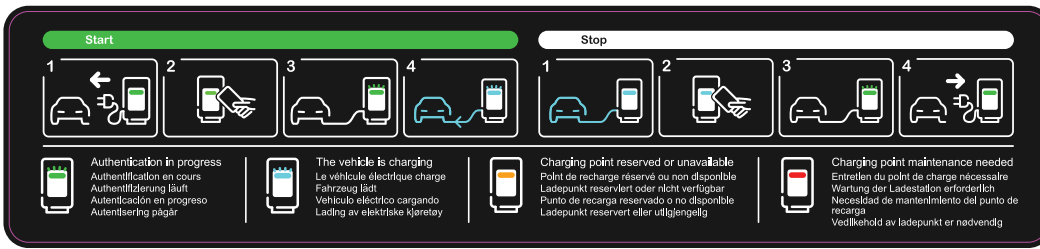


Available.
Plug in vehicle connector.

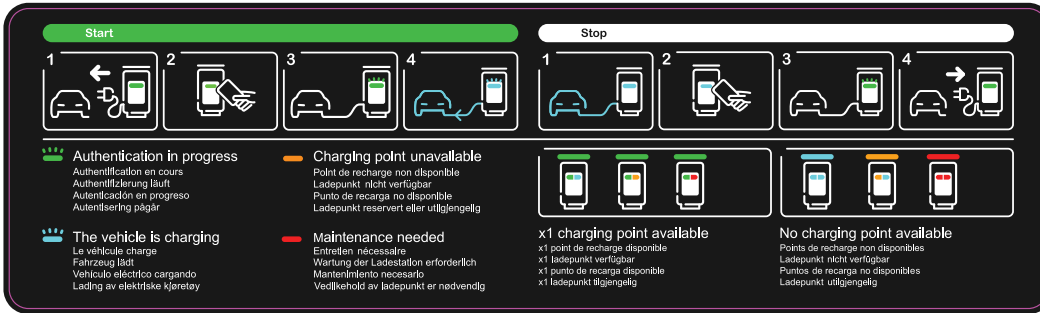
1.4 LED Status Indicator

The status of the Schneider StarCharge Fast 320/180 charging station is indicated via colored LED indicator lights.

Below you will find the definition of each Indicator Light and its corresponding charger status and the basic user guidance: (Sticker provided with the unit)



Version without cable management system

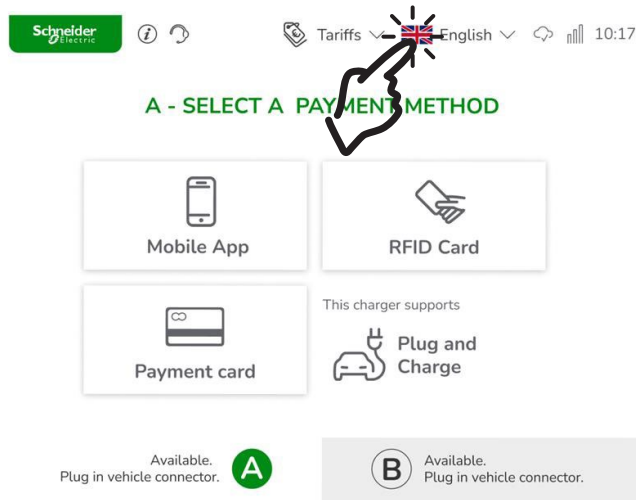


Version equipped with cable management system

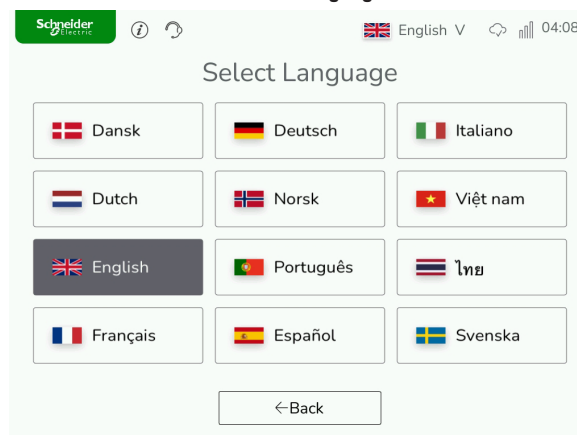
1.5 Languages

The Schneider StarCharge Fast User interface is integrated in several languages to facilitate the use according to regional requirements and enable different users. In the top of the HMI screen you can press on the Flag icon which will take you to a menu to select your preferred language.

Note: The list of available languages are defined at the commissioning stage.

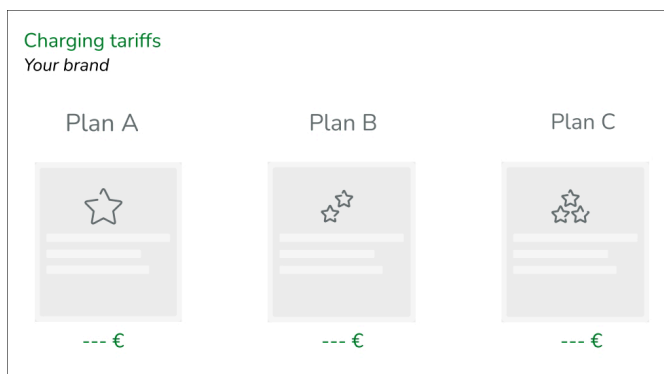
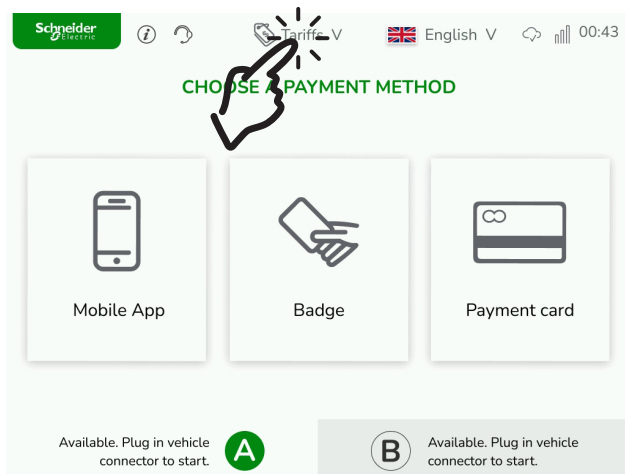


Available Languages:



1.6 Tariff

If the backend platform issues a tariff to the charging station as a payment reference, an icon will appear at the top of HMI screen. Click the "Tariff" icon and the further information of charging tariffs will pop up.



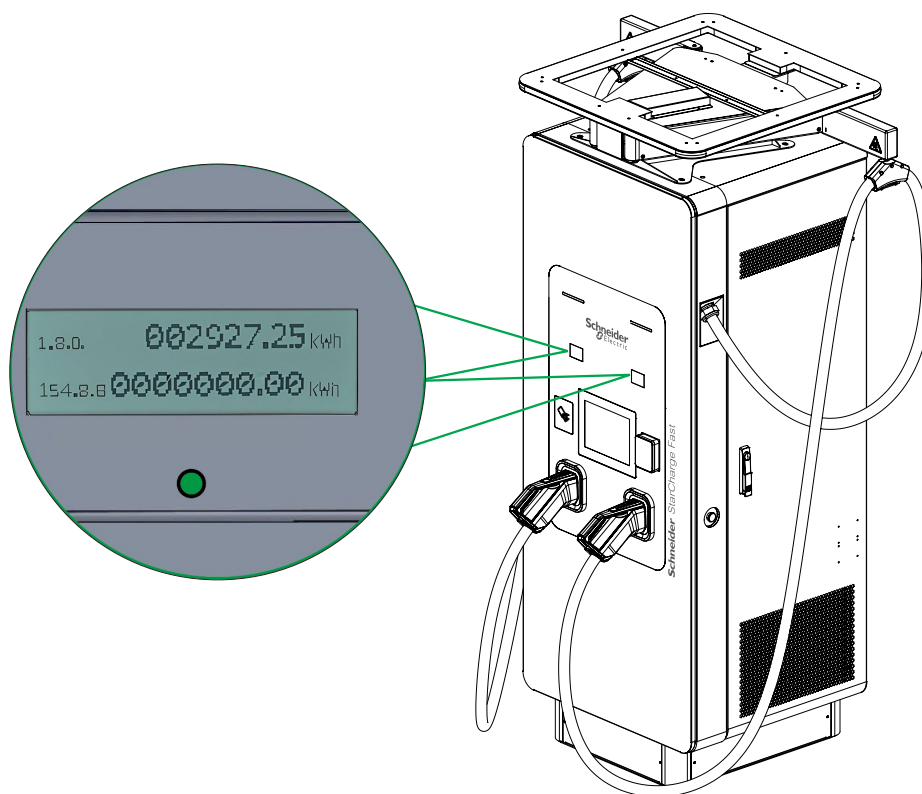
1.7 Charge Session DC Meter Reading

The Schneider StarCharge Fast Charging Station is equipped with a visible DC meter on each outlet. It provides the measurement data records with timestamp, loading process data and digital signature, thereby enabling charging processes to be billed in accordance with the legal requirements. Furthermore, all charging processes are persistently stored in the internal data storage of the meter.

The rotation interval on the display screen is 5 seconds.

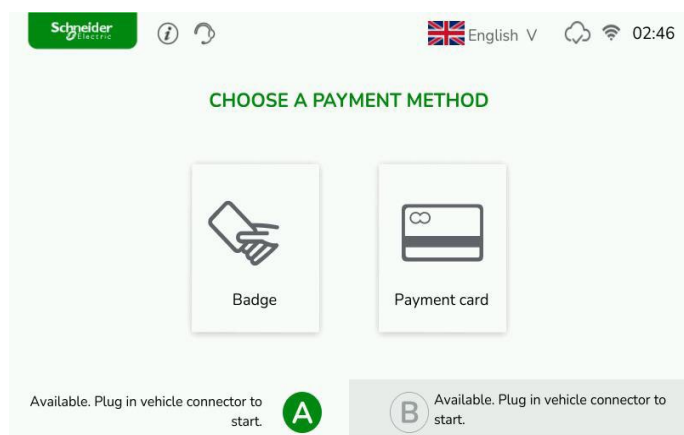
Displayed Information:

- Total import mains energy
- Total transaction import device energy



2.1 Basic Charging Steps

To charge an Electric Vehicle(EV):



- A** • Park the Electric Vehicle with the charge inlet within reach of the vehicle connector suitable for your Electric Vehicle.
- B** • Confirm the Charging Station status is normal and the status indicator is steady green.
- C** • Select your preferred language.
- D** • Follow the instructions on the screen.

⚠ CAUTION

HAZARD OF DAMAGING A LOCKED VEHICLE CONNECTOR

- In CCS charging the Electric Vehicle locks the vehicle connector.
- If the user wants to unplug the vehicle connector from the car, it may be necessary to unlock all doors of the Electric Vehicle or use the "unlock charge connector button" on the car key, if present.
- Do not apply force to a locked vehicle connector during charging. This might damage the inlet and locking mechanism in the car or damage the Charging Station.
- Always handle cables and connectors with care & always place them back in their respective holders.
- Only insert a vehicle connector into a suitable car inlet.

Failure to follow these instructions can result in injury or equipment damage.

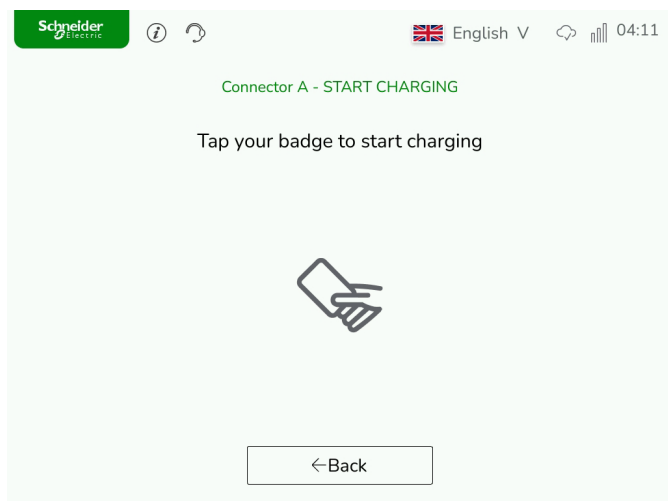
PLEASE NOTE

- Always ensure that the vehicle connector is properly plugged in the Electric Vehicle.
- Always ensure that the vehicle connector openings are clean and clear of any foreign bodies, dust, sand, leaves, etc.

2.2 Charging Authentication Modes

Depending on the configured authentication modes below, the user instructions for the charger may vary depending on the customer requirements. For each authentication mode, EV drivers need to select the authentication mode when it's not free or using autocharge.

1. RFID/NFC Authentication Required



- A** • All the following scenarios are available.

Scenario 1:

- Step 1: Connect the EV connector A or B to the EV.
- Step 2: Select the plugged connector A or B on the screen.
- Step 3: Select RFID authentication, and follow on screen guide.
- Step 4: Wait for charging start.

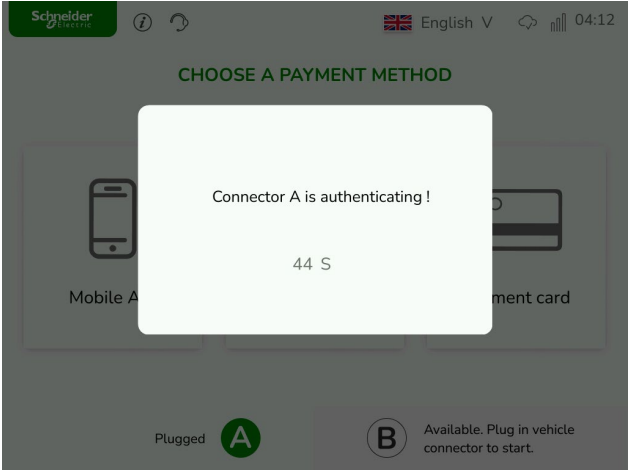
Scenario 2:

- Step 1: Select the plugged connector A or B on the screen.
- Step 2: Select RFID authentication and follow on screen guide.
- Step 3: Connect the EV connector A or B selected on step 1 to the EV.
- Step 4: Wait for charging start.

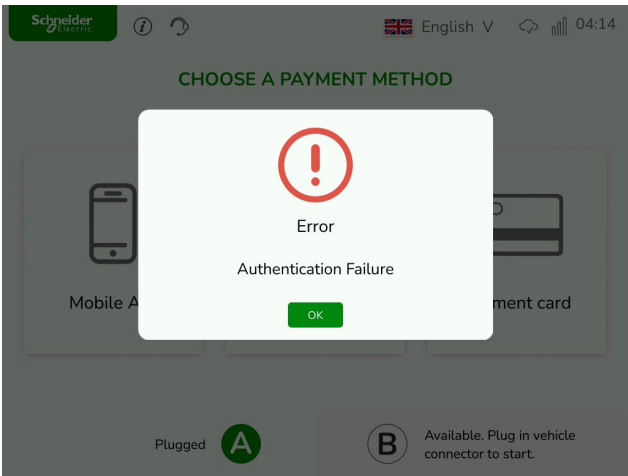
Scenario 3:

If one of the vehicle connectors is already charging or unavailable. Select the other unoccupied vehicle connector on the HMI screen. And then follow from Step2 in Scenario1 or Scenario2.

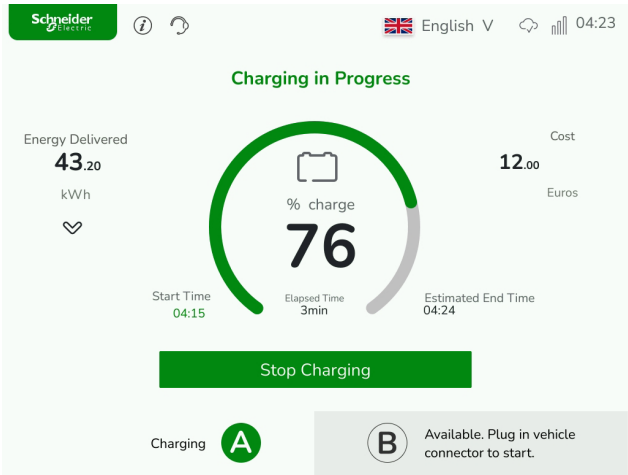
2.2 Charging Authentication Modes



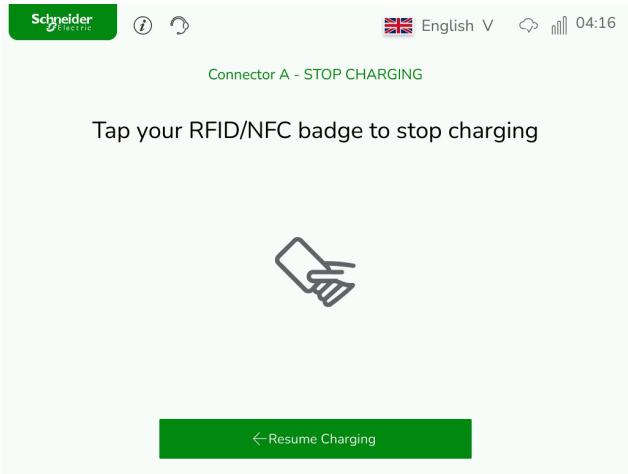
B • One the RFID card is tapped the interface with show the authenticating message. Once authenticated the session will start.



C • If authentication fails, a message will appear.



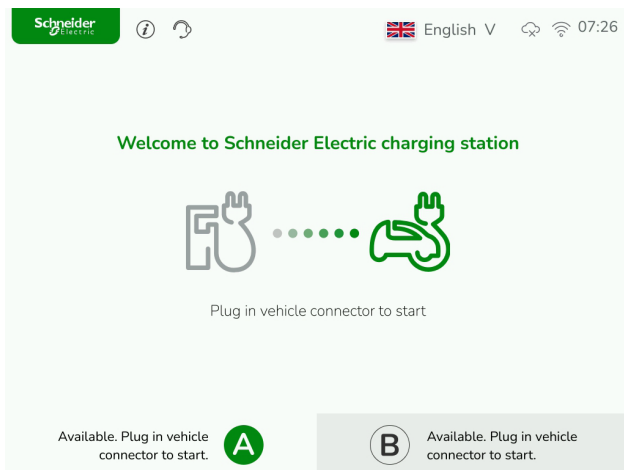
D • During charging, touch A and B buttons on the bottom of the screen to switch to the status interface of each vehicle connector.
E • Stop charging: Press "Stop Charging" to enter the stop charging interface and tap the card again to stop charging.



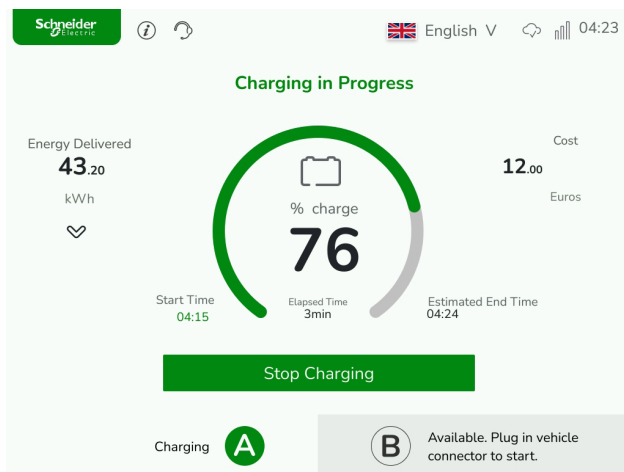
F • Unplug the vehicle connector from the vehicle, reposition it in the connector slot.

2.2 Charging Authentication Modes

2. Authentication with EV MAC address



- A** • On the User interface of the Charging Station.
Select the suitable vehicle connector A or B and follow the instructions on the screen.
- B** • Plug the vehicle connector into an authorized Electric Vehicle to authenticate.



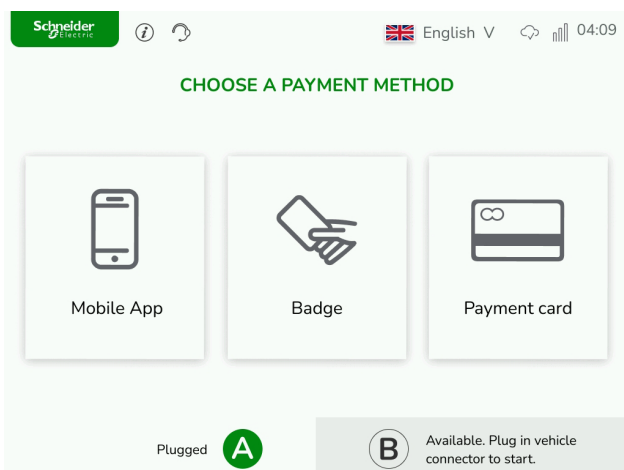
- C** • Stop charging: Press "Stop Charging" to enter the stop charging interface.

NOTE: The "Stop Charging" button needs special commissioning in web page (please refer to Commissioning Guide).

3. Authentication Disabled

- A** • On the user interface of the charging station, select the suitable vehicle connector A or B and follow the instructions on the screen.
- B** • Remove the vehicle connector from the connector slot and insert firmly it into the corresponding charging port of the vehicle, charge session will start Automatically.
- C** • To stop the charging session, either of the following methods can be used:
 - Use the connector unlock feature on the electric vehicle.
 - Press "Stop Charging" button on the HMI screen (Only when the button is enabled in commissioning stage. Please refer to Commissioning Guide.).
- D** • Replace the connector in the holder.

4. QR code with Mobile APP



- A** • All the following scenarios are available.

Scenario1:

- Step 1: Connect the EV connector A or B to the EV.
- Step 2: Select the plugged connector A or B on the screen.
- Step 3: Select QR authentication, and follow on screen guide.
- Step 4: Wait for charging start.

Scenario 2 :

- Step 1: Select the plugged connector A or B on the screen.
- Step 2: Select QR authentication and follow on screen guide.
- Step 3: Connect the EV connector A or B selected on step 1 to the EV.
- Step 4: Wait for charging start.

Scenario 3:

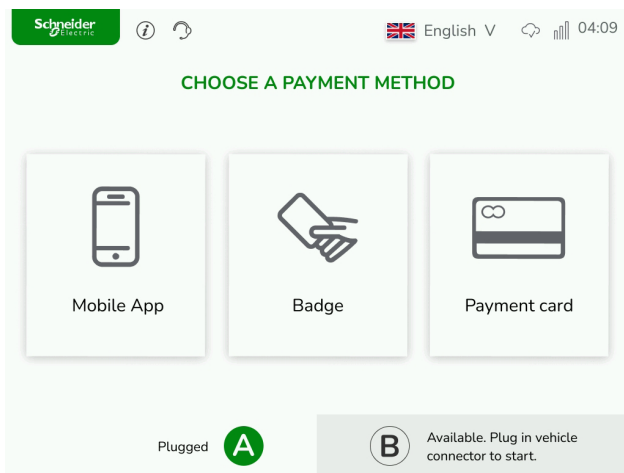
If one of the vehicle connectors is already charging or unavailable. Select the other unoccupied vehicle connector on the payment terminal screen. And then follow from Step2 in Scenario1 or Scenario 2.

2.2 Charging Authentication Modes



- B** • Scan the pop-up QR code to start the charging session and follow the instruction given by the Charge Point Operator to start and stop charging session.
- C** • After the charging session stops, replace the connector in the holder.

5. Payment terminal



- A** • All the following scenarios are available.

Scenario1:

- Step1: Click the Payment terminal icon on screen HMI.
- Step2: Select Connector A or B on screen of payment terminal.
- Step3: Then tap the credit card. Plug in the selected connector to EV.
- Step4: Wait for charging start.

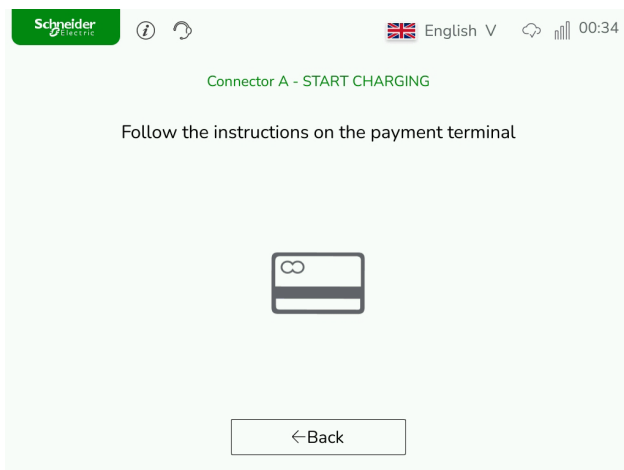
Scenario2:

- Step1: Plug in the connector A or B to EV.
- Step2: Click the Payment terminal icon on screen HMI.
- Step3: Select plugged connector on Screen of Payment terminal, then tap the credit card.
- Step4: Wait for charging start.

Scenario3:

- If one of the vehicle connectors is already charging or unavailable.
- Select the other unoccupied vehicle connector on the payment terminal screen.
- And then follow from Step2 in Scenario1 or Scenario 2.

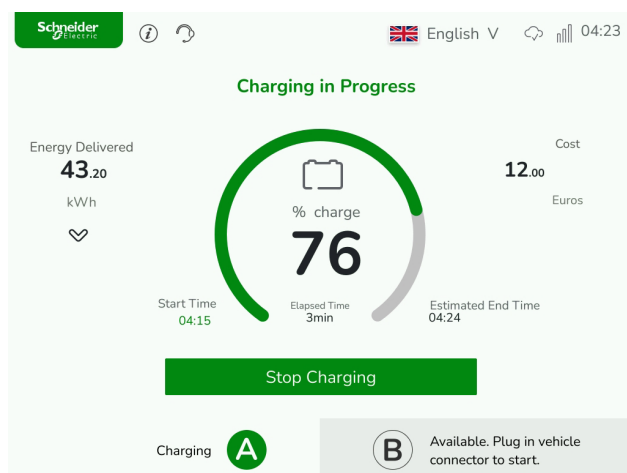
NOTE: If CPO already has integrated with Payter backend, the payer terminal will indicate connector selection option on the screen.



- B** • Follow the instructions on the payment terminal to start the charging session.
- C** • Stop charging: Press "Stop Charging" to enter the stop charging interface and follow the instructions on the payment terminal again to stop charging.
- D** • Replace the connector in the holder.

3.1 Charging Session Statistics

During the charging sessions the Schneider StarCharge Fast can provide different readings and statistics about the ongoing session(s). To pick the charging session during charging, touch A and B buttons on the bottom of the screen to switch to the status interface of each vehicle connector.



On the main screen of the Charging Station will appear the general status of the charging session such as:

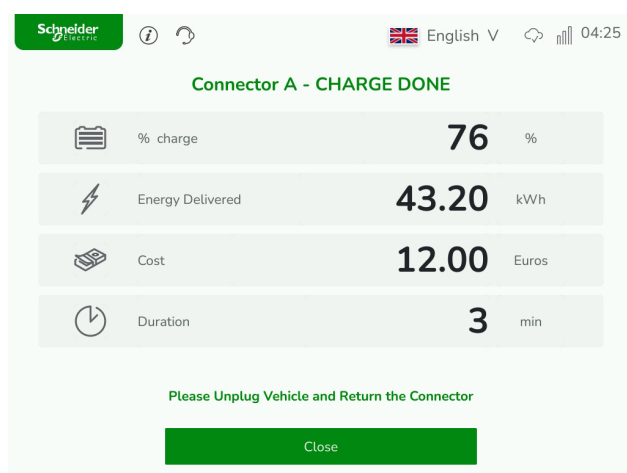
- Session start time
- Elapsed time
- Estimated completion time
- Energy delivered in kWh
- Cost/billing amount (If the backend platform issues)
- Charging Power, Output Current and Output Voltage (need to expand the arrow on the left side of the screen)

3.2 Charge Session Report

At the end of a charge session, the Charging Station will display on the user interface a report of the statistics of the charge session.

Session end

- Charging will stop without user interaction when the Electric Vehicle indicates to the charger that charging is completed.
- Charge session can also be ended from the Electric Vehicle side, refer to the Electric Vehicle owners manual.



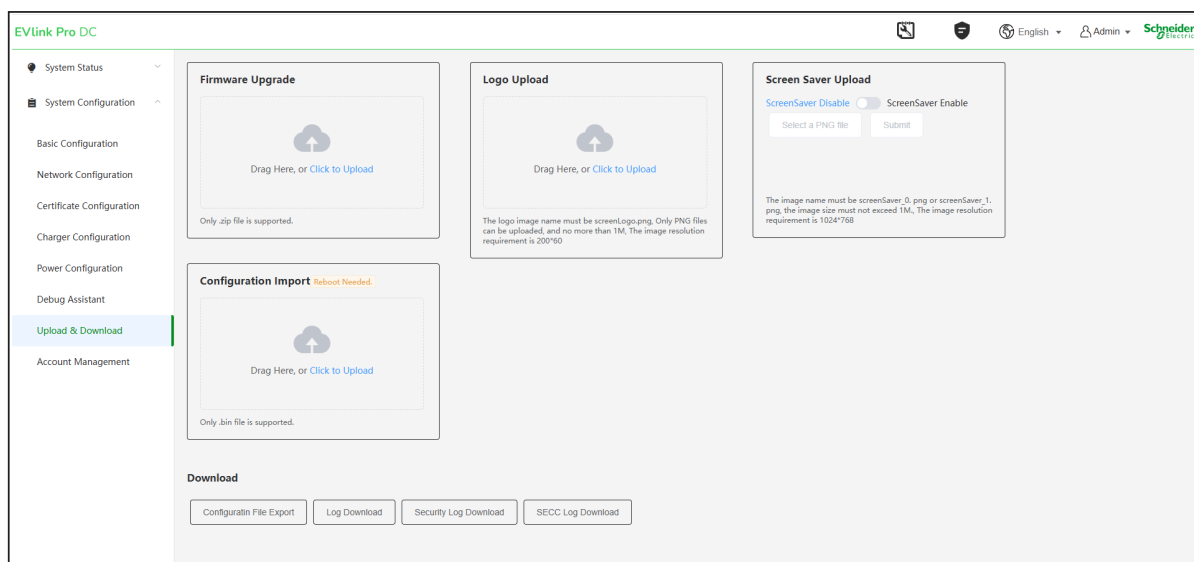
Available Information:

- Electric Vehicle battery Level in %
- Energy delivered in kWh
- Cost/billing information (if applicable)
- Duration of charge session

3.3 Screen saver and logo change

The logo picture showing on the upper left corner of the HMI screen can be changed (in commissioning stage) according to the requirement from Charge Point Operator/Contractor.

Once the HMI screen is not operated within 2 minutes, the screen saver will start (Only when the screen saver feature is enabled in commissioning stage). The screen saver pictures will be changed at regular intervals (10s) if there are more than one screen saver picture. The maximum screen save pic number is 2.



⚠ ⚠ DANGER**HAZARD OF ELECTRIC SHOCK**

- Any inspection or maintenance activity that requires the Charging Station doors to be opened must only be performed by trained and authorized personnel.
 - Contact Schneider Electric services to provide the recommended service plan for your product.
- Failure to follow these instructions will result in death, serious injury, or equipment damage.**

NOTICE**HAZARD OF EQUIPMENT DAMAGE**

- Do not apply high-pressure water jets when cleaning the charging station as water may leak inside.
- Only use cleaning agents with a pH value between 6 and 8.
- Do not use cleaning agents with abrasive components.
- Do not use abrasive tools.

Failure to follow these instructions can result in equipment damage.

To achieve the best performance out of your Schneider StarCharge Fast Charging Station preventive maintenance plan is required. The preventive maintenance plan consists of regular maintenance and periodic maintenance.

Regular maintenance aims to offer a regular check for the status of the Charging Station under the condition when shut down is not possible.

Periodic maintenance is to be carried out at least once a year by Schneider Electric services personnel or trained and certified Schneider Electric's eMobility EcoXpert.

Regular Maintenance

Regular maintenance checklist as follow:

Regular Maintenance				
Check	Tool	Frequency	Shutdown Required	Status/Action
Visually check whether there are missing parts such as connector holder, Emergency charge stop, handles, etc.		Weekly	No	
Visually check whether there are deformed or damaged parts on enclosure.		Weekly	No	
Ensure cleanliness of enclosure for stains, stickers, graffiti, grease, signs of rust, signs of burn or water penetration.		Weekly	No	
Check the HMI screen for damages and ensure proper visibility and touch response.		Weekly	No	
Test the QR code to ensure it is clear and leads to the correct App/Interface.		Weekly	No	
Check the HMI screen for any error messages.		Weekly	No	
Check the LED indicator lights.		Weekly	No	
Visually inspect the condition of the connectors and cables for any foreign objects, damages, or broken insulation.		Weekly	No	
Visually inspect the cable at the connector flange for any pull marks.		Weekly	No	
Manually test the proper operation of the cable management system and ensure that it can withdraw back a loose cable.		Weekly	No	
Inspect and verify the correct operation of the Emergency charge stop.		Weekly	No	
Check the car stopping bollards are present and not damaged.		Weekly	No	
Visually inspect the concrete foundation for water collected or damages and ensure all bolts are secured in place.		Weekly	No	
Visually inspect the canopy/shed for any damages. (if applicable).		Weekly	No	
Ensure the installation area is clear of weeds, sand, excessive dust, etc.		Weekly	No	
Visually inspect all safety warning signs visible and clear.		Weekly	No	
Manually inspect the doors and locks for proper operation and keys are secured.		Weekly	No	
Listen whether there is abnormal noise from inside of the charger.	 	Weekly	No	
Check for abnormal (burning, rodent) smell coming from the charger.	 	Weekly	No	
Inspect the DC meter through the window and ensure clear reading visibility.		Weekly	No	
Inspect and clean the intake ventilation louvers for damages or any foreign objects blocking.		Weekly	No	
Inspect and clean the outlet ventilation grid for damages or any foreign objects blocking.		Weekly	No	



Product Disposal

To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal.

Product materials are recyclable as marked.

Please find below link and enter the product reference number for files: Product Environmental Profile and Product End of Life Instructions

checkaproduct.se.com

Radio Equipment Conformity

EU Declaration of Conformity

Hereby, SCHNEIDER eSTAR, declares that this electric vehicle conductive charging station Schneider StarCharge Fast 320/180 is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive: 2014/53/EU.

The EU declaration of conformity for Schneider StarCharge Fast 320/180 offer (EU1006180-0) can be downloaded on: www.se.com/docs.

UK Declaration of Conformity

Hereby, SCHNEIDER eSTAR, declares that this electric vehicle conductive charging station Schneider StarCharge Fast 320/180 is in compliance with the essential requirements and other relevant provisions of Radio Equipment Regulations 2017-UK SI 2017 No.1206.

The UK declaration of conformity for Schneider StarCharge Fast 320/180 offer (UK1006232-0) can be downloaded on: www.se.com/uk/docs.

Communication Frequencies

	Operation Frequency	Output Power
RFID:	13.56 MHz	5.42dBuA/m
GSM900:	TX: 880 MHz to 915 MHz RX: 925 MHz to 960 MHz	27.92dBm
GSM1800:	TX: 1710 MHz to 1785 MHz RX: 1805 MHz to 1880 MHz	24.92dBm
WCDMA		
Band1:	TX:1920-1980 MHz RX:2110-2170 MHz	27.11dBm
Band8:	TX:880-915 MHz RX: 925-960 MHz	27.11dBm
LTE		
Band1:	TX:1920-1980 MHz RX: 2110-2170 MHz	27.11 dBm
Band3:	TX:1710-1785 MHz RX:1805-1880 MHz	27.11 dBm
Band7:	TX: 2500-2570 MHz RX: 2620-2690 MHz	27.11 dBm
Band8:	TX: 880-915 MHz RX: 925-960 MHz	27.11 dBm
Band20:	TX:832-862 MHz RX: 791-821 MHz	27.11 dBm
Band28:	TX: 703-748 MHz RX: 758-803 MHz	27.11 dBm
Band38:	2570-2620 MHz(TDD)	27.11 dBm
Band40:	2300-2400 MHz(TDD)	27.11 dBm
Band41:	2496-2690 MHz(TDD)	27.11 dBm

Wireless Frequencies

Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate
IEEE 802.11b	2412~2472	DSSS	20MHz	Up to 11Mbps
IEEE 802.11g	2412~2472	OFDM	20MHz	Up to 54Mbps
IEEE 802.11n 2.4GHz 20MHz	2412~2472	OFDM	20MHz	Up to 72.2Mbps
Channel Number	IEEE 802.11b/g, IEEE 802.11n HT20: 13 Channels			
Channel Step	WiFi: Channels with 5MHz step			

Standards and Compliance

Directive RE: 2014/53/UE	RE Directive: 2014/53/EU
Directive RoHS: 2011/65/UE, 2015/863/UE	RoHS Directive: 2011/65/EU: 2015/863/EU

Based on following standards:

EN IEC 61851-1:2019+AC:2023-12, EN 61851-23:2014+AC:2016-06, EN 61851-24:2014 + AC:2015, EN 61000-6-2:2005 + AC 2005,

EN IEC 61000-6-2:2019*, EN 61000-6-4:2007 + A1:2011, EN IEC 61000-6-4:2019**, EN IEC 61851-21-2:2021***

EN 301 489-1 V1.9.2(2011-09), EN 301 489-1 V2.2.3(2019-11)****, EN 301 489-3 V2.3.2(2023-01), EN 301 489-17 V3.2.4(2020-09),

EN 301 489-17 V3.3.1(2024-09), EN 301 489-52 V1.2.1(2021-11), EN 301 489-52 V1.3.1(2024-11)

EN 300 330 V2.1.1(2017-02), EN 301 511 V12.5.1(2017-03), EN 301 908-1 V15.2.1(2023-01), EN 301 908-2 V13.1.1(2020-06),

EN 301 908-13 V13.2.1(2022-02), EN 301 908-13 V13.3.1(2024-10)*****, EN 300 328 V2.2.2(2019-07)

EN 62311:2008, EN IEC 62311:2020, EN 62479:2010

IEC 61439-7:2018

EN IEC 63000:2018

* The EN IEC 61000-6-2:2019 is not an harmonized standard but the Schneider StarCharge Fast 320/180 is already compliant with EN IEC 61000-6-2:2019.

** The EN IEC 61000-6-4:2019 is not an harmonized standard but the Schneider StarCharge Fast 320/180 is already compliant with EN IEC 61000-6-4:2019.

*** The EN IEC 61851-21-2:2021 is not an harmonized standard but the Schneider StarCharge Fast 320/180 is already compliant with EN IEC 61851-21-2:2021.

**** The EN 301 489-1 V2.2.3(2019-11) is not an harmonized standard but the Schneider StarCharge Fast 320/180 is already compliant with EN 301 489-1 V2.2.3(2019-11).

***** The EN 301 908-13 V13.3.1(2024-10) is not an harmonized standard but the Schneider StarCharge Fast 320/180 is already compliant with EN 301 908-13 V13.3.1(2024-10).

NOTICE

RISK OF FIRE AND/OR EQUIPMENT DAMAGE

- Ensure that upgrading the Charging Station with the inappropriate upstream protection breaker or undersized cable could cause a fire.
- Failure to follow these instructions can result in equipment damage.

The power of Schneider StarCharge Fast charger can be upgraded by adding one or two power modules depending on the required power after first sale.
NOTE: All Schneider StarCharge Fast 120kW can be upgraded to 150kW or 180kW. All Schneider StarCharge Fast 240 kW can be upgraded to 320kW.

- STEPS:**
- Step1:** Ensure the capacity of upstream protection breaker and the cross-section of cables will be enough for the upgraded power to avoid unwanted tripping.
- Step2:** Contact Schneider Electric Service organization to perform the necessary activities to perform the upgrade.