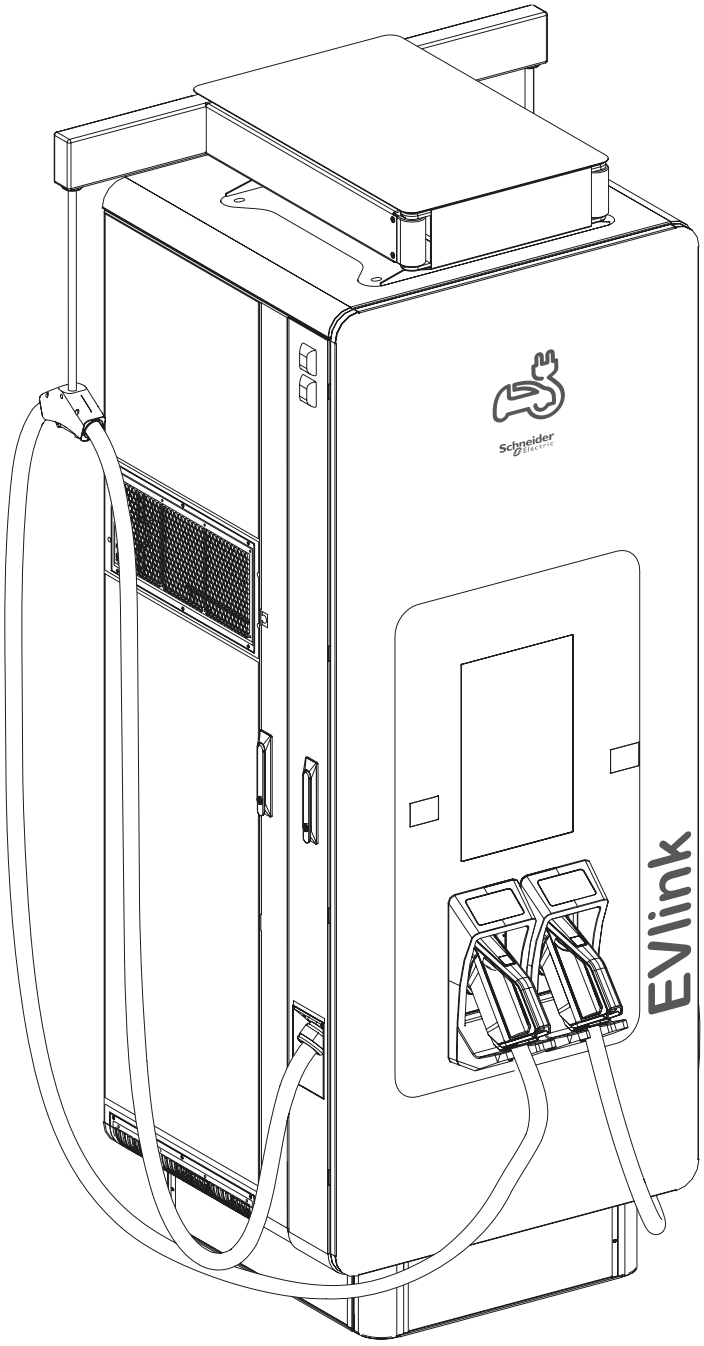
Owners Manual

EVlink Pro DC 180 Charging Station
EVlink Pro DC 150 Charging Station
EVlink Pro DC 120 Charging Station



Customer Care Center

Schneider Electric

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Legal Information

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

- Read and follow all warnings and instructions before installing and operating the EVlink Pro DC 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 EVlink Pro DC 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 EVlink Pro DC 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 EVlink Pro 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

- 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

- Before installing the EVlink Pro DC 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 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 EVlink Pro DC 120 or 150 or 180 Charging Stations.
The EVlink Pro DC 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 EVlink Pro DC 120/150 is physically the same Charging Station as a DC 180.
The main difference is the output power it can deliver and therefore also the input power needed.
The differences of the DC120/150 and 180, and any differences on the operation and/or maintenance shall be highlighted.

As the physical features of both types are equal, they will be referred to hereafter as EVlink Pro DC 180 only and this will account for all types, unless specifically stated otherwise.
Both types come in different versions, depending on the outlet types. 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.

Other Available Documentation

EVlink Pro DC available documents for each phase of the project:

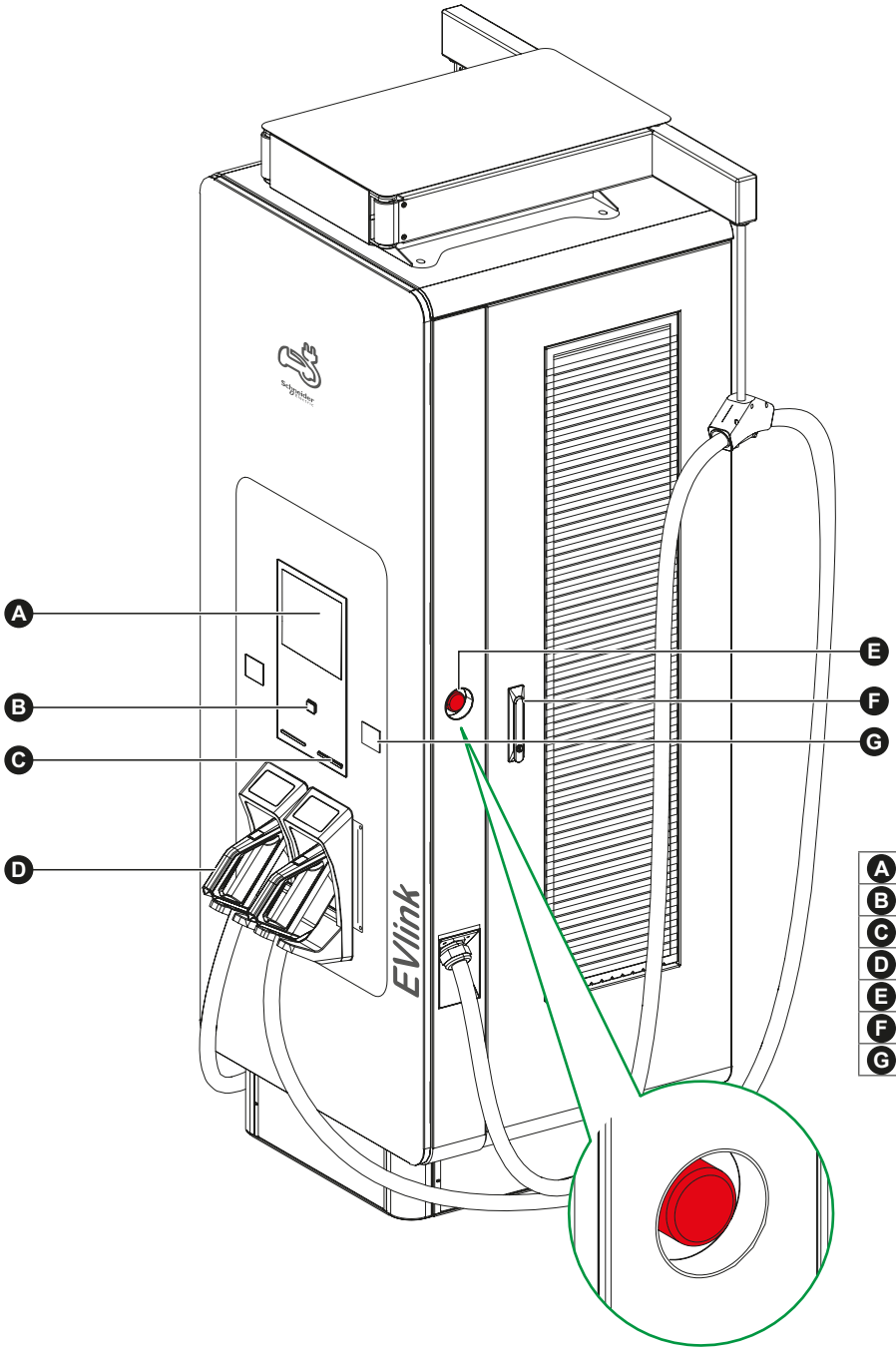
Document	Content	Audiences
EVlink Pro DC 180 Datasheet	Full Charging Station specifications	Site designer, installer and station operator
EVlink Pro DC 180 Installation Guide	Civil, mechanical, and electrical installation guidelines	Site engineer or Installer/Contractor

Owner Responsibilities

The owner and/or site operator are required:

- To ensure the site where the Charging Station will be installed, is in accordance to the requirements described in the Installation guide.
- To ensure enough space around the Charging Station to carry out maintenance work.
- To ensure all protective devices are correctly installed after carrying out installation or maintenance.
- To operate the Charging Station with the protective devices installed.
- To write an emergency plan that instructs people 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 Field Services.
- 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.

1 System Overview



A	Touch screen
B	Card swiping area
C	Indicator lights
D	Vehicle connector slot
E	Charge interrupt button
F	Door handle with Lock
G	DC electric meter

1.1 Charging Stations Configurations

Type of equipment applicable to this manual: EVlink Pro DC 120 kW – DC 150 kW - DC 180 kW

Commercial Reference	Nominal Power	Output
EVD1S120TBB	120 kW DC	1 x CCS2 + 1 x CCS2
EVD1S120THB	120 kW DC	1 x CCS2 + 1 x CHAdeMO
EVD1S150TBB	150 kW DC	1 x CCS2 + 1 x CCS2
EVD1S150THB	150 kW DC	1 x CCS2 + 1 x CHAdeMO
EVD1S180TBB	180 kW DC	1 x CCS2 + 1 x CCS2
EVD1S180THB	180 kW DC	1 x CCS2 + 1 x CHAdeMO

1 System Overview

1.2 Authentication Modes

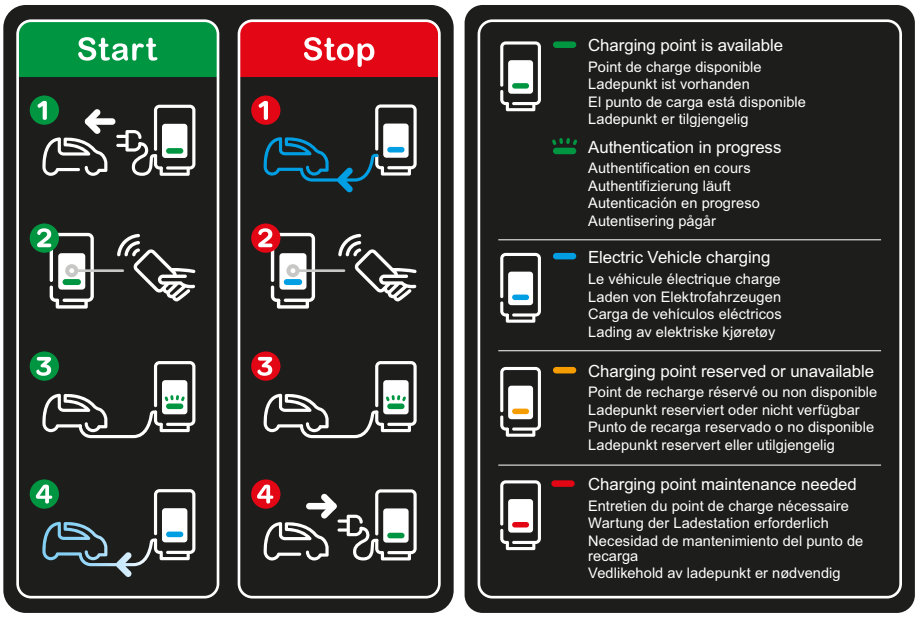
According to the Commissioning parameters, the EVlink Pro DC 180 operation is possible with or without authentication.
Operation with authentication requires a Charging Station connected to an OCPP backend platform.

Authentication modes available:

- Authorize registered RFID/NFC card
- No authentication required
- Authentication with Electric Vehicle MAC address

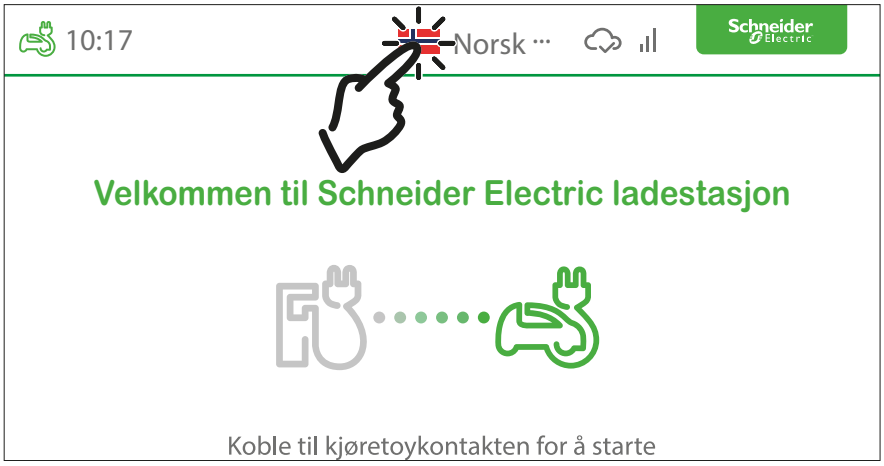
1.3 LED Status Indicator

The status of the EVlink Pro DC 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)



1.4 Languages

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



Available Languages:

1 System Overview

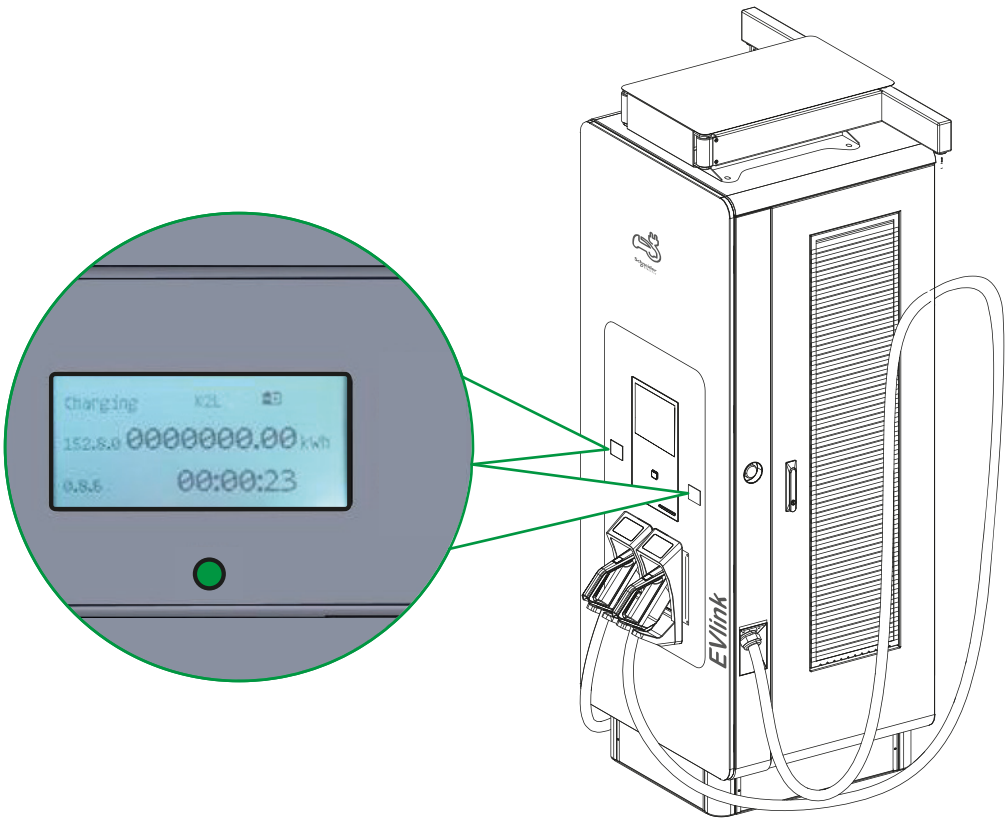
1.5 Charge Session DC Meter Reading

The EVlink Pro DC 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:

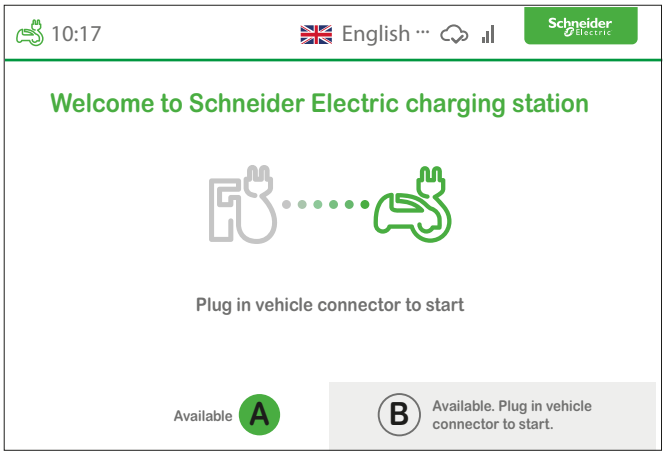
- Total import mains energy
- Line loss impedance
- Total transaction import device energy



2 User Instructions

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 and switch it off.
B • Confirm the Charging Station status is normal and the status indicator is steady green.
C • Select your preferred Language
D • Remove the vehicle connector from the connector slot and insert firmly it into the corresponding charging port of the vehicle.
E • Follow the instructions on the screen.

2 User Instructions

⚠ 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.

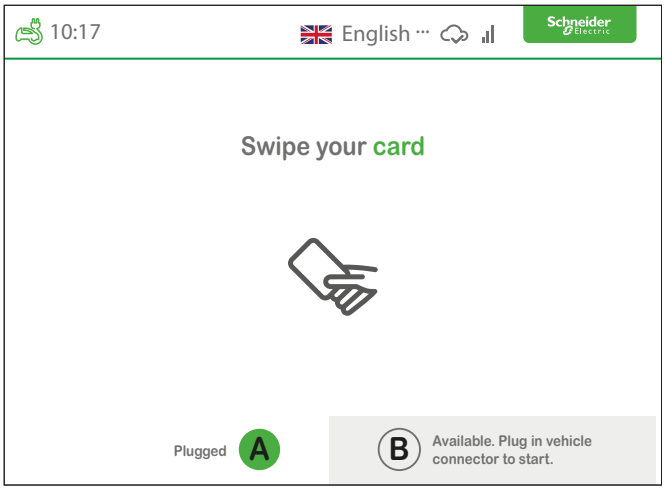
Failure to follow these instructions can result in injury or equipment damage.

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

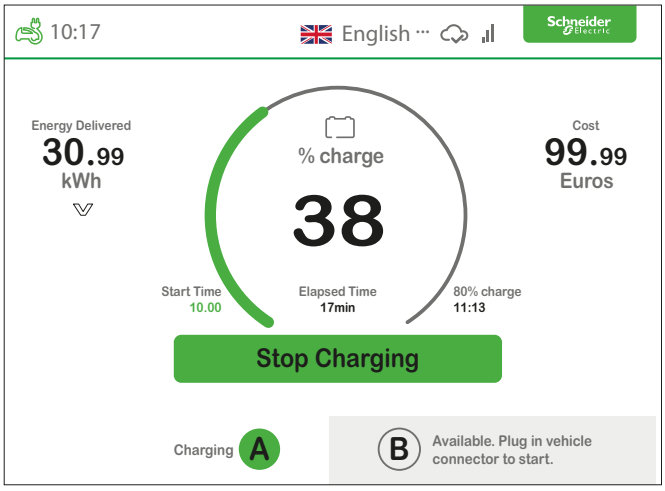
Depending on the configured authentication modes below, the user instructions for the charger may vary depending on the customer requirements:

1. Swipe Authorized Card to charge



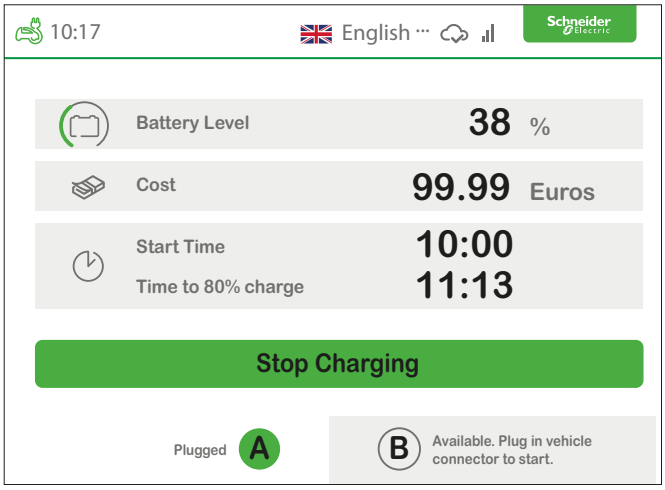
A • On the user interface of the Charging Station, select the suitable vehicle connector A or B and follow the instructions on the screen.

B • After inserting the vehicle connector in the Electric Vehicle port the user interface will prompt the user to swipe the card.
Once card is swiped on swiping area a charging session will start.



C • During charging, touch A and B buttons on the bottom of the screen to switch to the status interface of each vehicle connector.

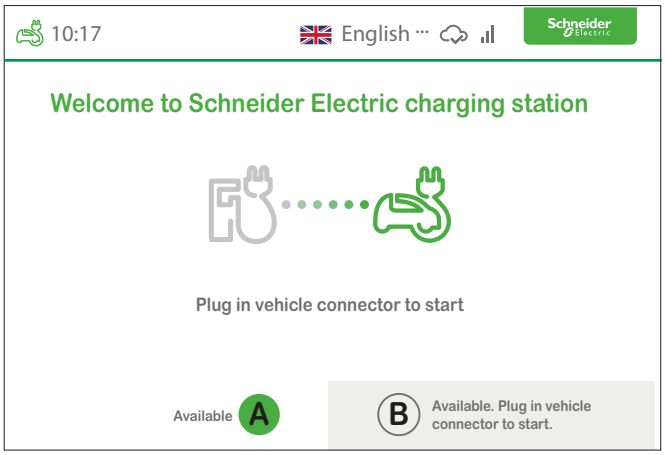
D • Stop charging: Press "Stop Charging" to enter the stop charging interface and swipe the card again to stop charging.



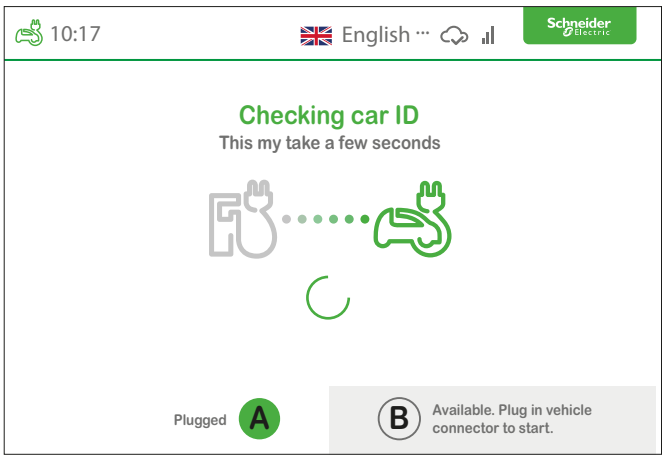
E • Unplug the vehicle connector from the vehicle, reposition it in the connector slot.

2.2 Charging Authentication Modes

2. Electric Vehicle MAC Address Authentication



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 • If the Electric Vehicle is authorized, charging will start automatically.
If the Electric Vehicle is not authorized a message will show on the HMI screen.
D • To stop charge session, it must be ended from the EV side by using the unlock connector feature in the Electric Vehicle.
E • After charging fully and stopping charging, charging results are displayed on the Charging Station screen.
F • Unplug the vehicle connector from the vehicle, reposition it in the connector slot.

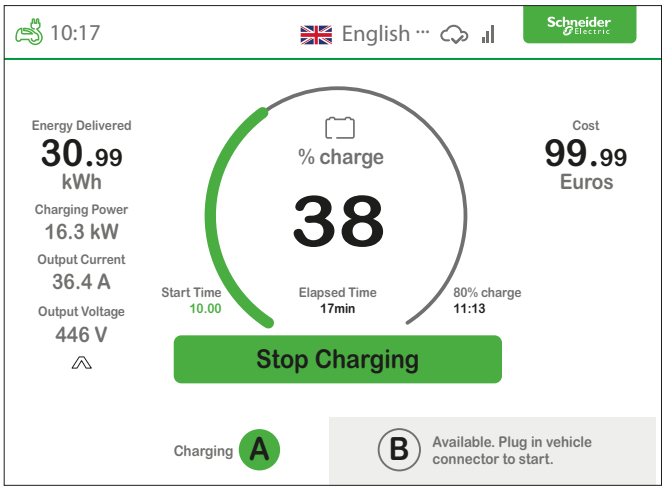
3. No Authentication

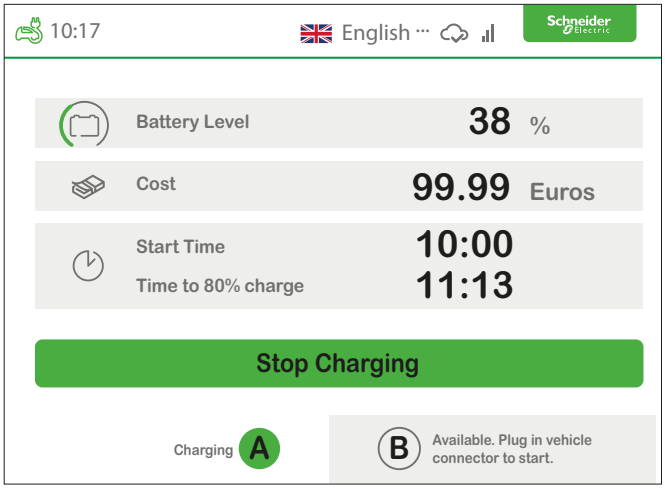
A • On the user interface of the charging station, select the suitable vehicle connector A or B and follow the instructions on the screen.
B • Remove the vehicle connector from the connector slot and insert firmly it into the corresponding charging port of the vehicle, charge session will start Automatically.
C • To stop charge session, it must be ended from the Electric Vehicle side by using the unlock connector feature in the Electric Vehicle.
D • Replace the connector in the holder.

3 Consumption Statistics

3.1 Charging Session Statistics

During the charging sessions the EVlink Pro DC 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:

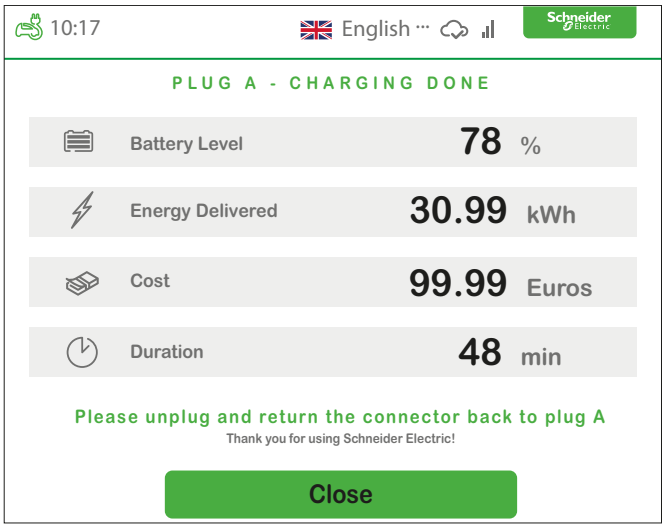
- Session start time
- Elapsed time
- Estimated completion time
- Energy delivered in KWH
- Cost/billing amount (If applicable)

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

4 Preventive Maintenance

⚠ 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 can result in death, serious injury, or equipment damage.

NOTICE

HAZARD OF ELECTRIC SHOCK.
- 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 EVlink Pro DC 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.

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, charge interrupt button, 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 charge interrupt button.		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	

5 Recycle

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.

Radio Equipment Conformity

Hereby, Schneider Electric Industries, declares that this electric vehicle charging station EVlink Pro DC 180 is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directives RED 2014/53/EU.
The EU declaration of conformity for EVlink Pro DC offer (EV23052501) can be downloaded on: se.com/ww/en/download

Hereby, Schneider Electric Industries, declares that this electric vehicle charging station EVlink Pro DC 180 in in compliance with the essential requirements and other relevant provisions of Radio Equipment Regulation SI 2017 No. 1206.
The UK declaration of conformity for EVlink Pro AC offer (EV23052501-UK) can be downloaded on: se.com/uk/en/download

Communication Frequencies

	Operation Frequency	Output Power
WiFi 2.4G:	2400-2483.5 MHz	15.94 dBm
RFID:	13.56 MHz	Far less than 20 mW
GSM900:	TX: 880 MHz to 915 MHz RX: 925 MHz to 960 MHz	32.75 dBm
GSM1800:	TX: 1710 MHz to 1785 MHz RX: 1805 MHz to 1880 MHz	29.80 dBm
WCDMA		
Band1:	TX: 1920-1980 MHz RX: 2110-2170 MHz	24.37 dBm
Band8:	TX: 880-915 MHz RX: 925-960 MHz	24.07 dBm
LTE		
Band1:	TX: 1920-1980 MHz RX: 2110-2170 MHz	23.51 dBm
Band3:	TX: 1710-1785 MHz RX: 1805-1880 MHz	23.55 dBm
Band7:	TX: 2500-2570 MHz RX: 2620-2690 MHz	23.5 dBm
Band8:	TX: 880-915 MHz RX: 925-960 MHz	23.91 dBm
Band20:	TX: 832-862 MHz RX: 791-821 MHz	23.88 dBm
Band28:	TX: 703-736 MHz RX: 758-791 MHz	23.59 dBm
Band38:	2570-2620 MHz (TDD)	23.51 dBm
Band40:	2300-2400 MHz (TDD)	23.18 dBm

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 61851-23: 2014 + AC1: 2016 and EN 61851-24: 2014 in conjunction with EN 61851-1: 2011 and EN IEC 61851-1 2019	
EN 61000-6-2: 2005 + AC: 2005 (EN IEC 61000-6-2 : 2019*), EN 61000-6-4: 2007 + A1: 2011(EN IEC 61000-4 : 2019)**	
EN 301 489-1 V2.2.3 (2019-11), EN 301 489-3 V2.1.1, (2017-03), EN 301 489-17 V3.2.4 (2020-09), EN 301 489-52 V1.2.1 (2021-11)	
EN 300 328 V2.2.2 (2019-07), EN 300 330 V2.1.1 (2017-02), EN 301 511 V12.5.1 (2017-03), EN 301 908 -1 V15.1.1 (2021-09), EN 301 908 - 2 V13.1.1 (2020-06), EN 301 908 -13 V13.1.1 (2019-11)	
EN 50364: 2010, EN 62311 :2020, EN 62479: 2010	
EN IEC 63000: 2018	

* The EN IEC 61000-6-2: 2019 is not an harmonized standard but the EVlink Pro DC 180kW is already compliant with EN IEC 61000-6-2: 2019.
** The EN IEC 61000-6-4: 2019 is not an harmonized standard but the EVlink Pro DC 180kW is already compliant with EN IEC 61000-6-4: 2019

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