eMobility solutions

Building the future of all-electric mobility

Electric vehicle charging solutions

Catalog 2025

se.com/emobility

Life Is On Schneider Electric

Legal information

The information provided in this Catalog contains description of Schneider Electric products, solutions and services (“Offer”) with technical specifications and technical characteristics of the performance of the corresponding Offer.

The content of this document is subject to revision at any time without notice due to continued progress in methodology, design and manufacturing.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any type of damages arising out of or in connection with (i) informational content of this Catalog not conforming with or exceeding the technical specifications, or (ii) any error contained in this Catalog, or (iii) any use, decision, act or omission made or taken on basis of or in reliance on any information contained or referred to in this Catalog.

SCHNEIDER ELECTRIC MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO WHETHER THIS CATALOG OR ANY INFORMATION CONTAINED THEREIN SUCH AS PRODUCTS AND SERVICES WILL MEET REQUIREMENTS, EXPECTATIONS OR PURPOSE OF ANY PERSON MAKING USE THEREOF.

Schneider Electric brand and any trademarks of Schneider Electric and its subsidiaries referred to in this Catalog are property of Schneider Electric or its subsidiaries. All other brands are trademarks of their respective owners.

Contents

*Available soon in selected European countries

eMobility solutions

Extensive network of certified partners

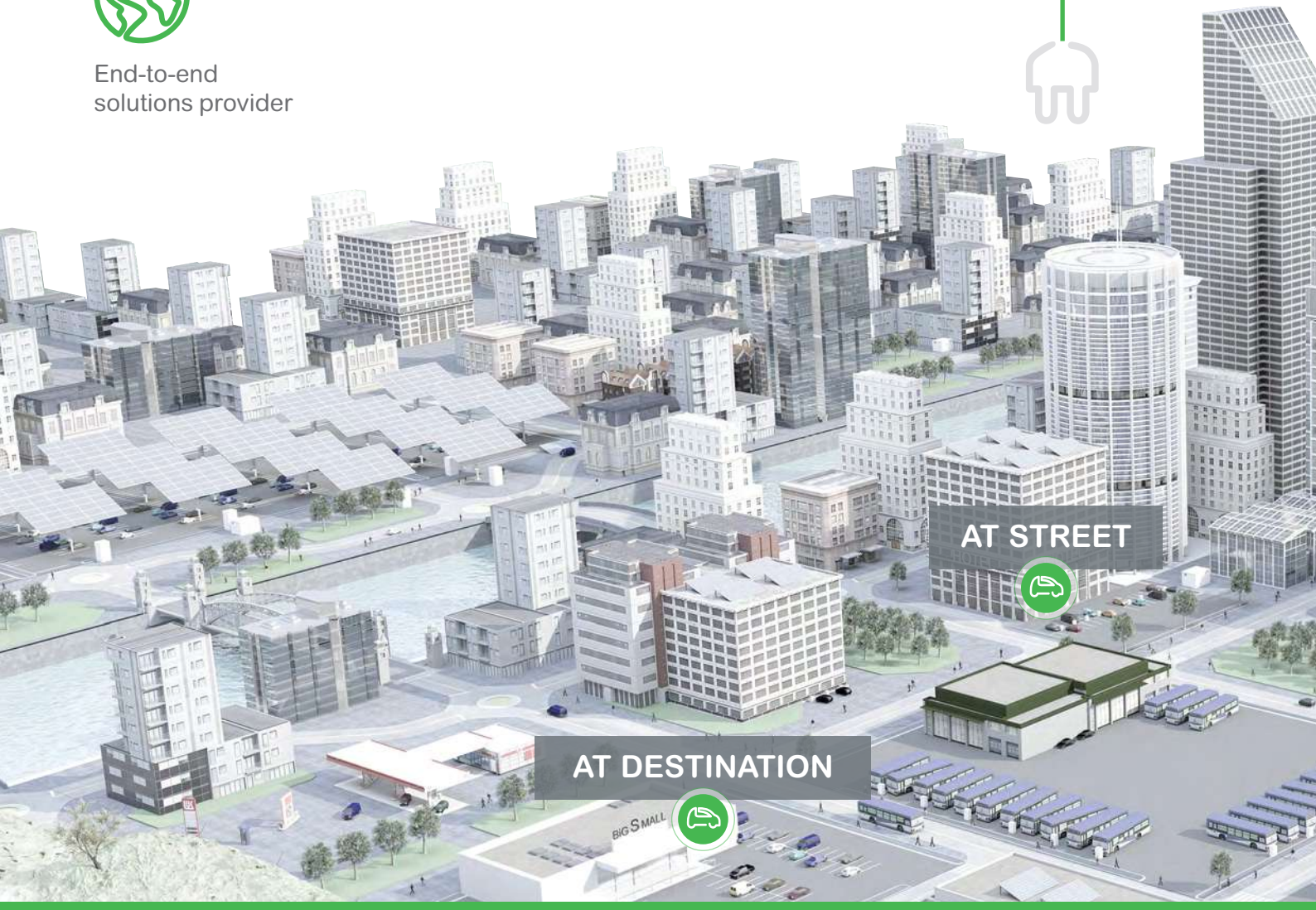
Industry standards compliance

Worldwide customer support

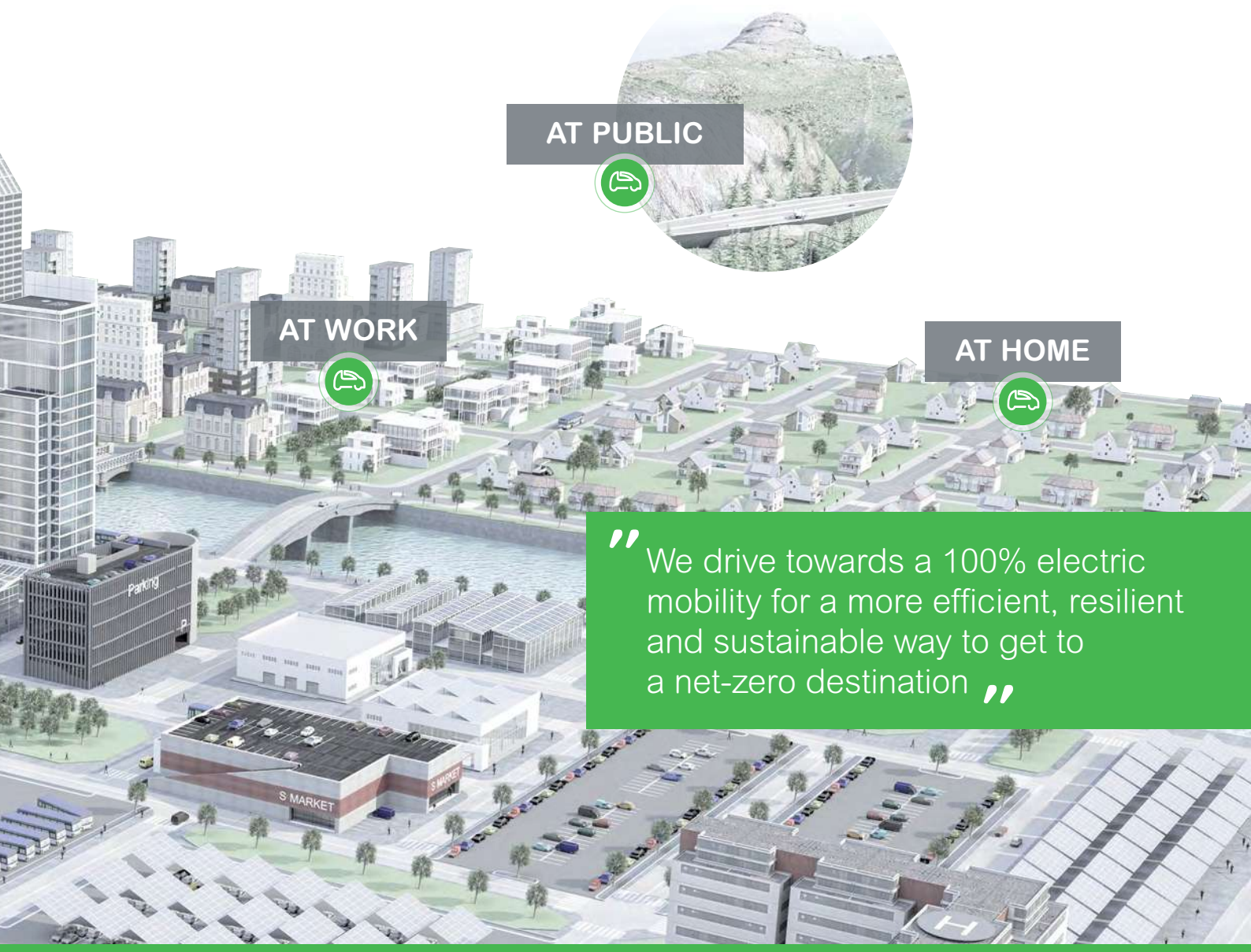
End-to-end solutions provider

Building the mobility of the future

SCALABILITY AND RESILIENCY
EFFICIENCY AND SUSTAINABILITY
CONNECTIVITY AND INTEROPERABILITY
CYBERSECURITY



We provide end-to-end eMobility solutions, beyond the EV charging infrastructure, where the whole electric mobility ecosystem is connected to provide cost-efficient and convenient charging experience for homes, buildings, and fleets, minimizing downtime and prioritizing the use of renewable energy for a net-zero future.



"We drive towards a 100% electric mobility for a more efficient, resilient and sustainable way to get to a net-zero destination"

eMobility for
Residential Applications

Smart homes, smarter EV charging: Schneider Charge

> "I want a robust end-to-end solution when installing EV charging stations that is compatible with my customer's preferred mobile application".

Deliver your customer an attractive charging station that provides them with simple remote control of their EV charging and optimizes their energy costs without compromising their comfort.

Schneider Charge

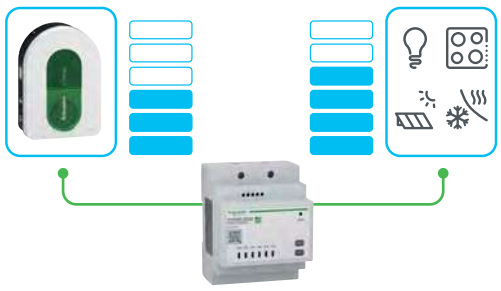
Single family home charging station

Easy installation and wiring:

- Three cabling options
- Wall spacers for uneven walls
- Captive screws and metal black plate with slotted holes
- Connectors for fast and long-time wiring
- Ready for voltage and continuity test

Characteristics:

- T2S socket up to 22 kW, combined 1P/3P
- Up to 7.4 kW 1P or 11 kW 3P, with 5 or 7 m attached cable with T2 connector
- OCPP 1.6J
- Single push-button for configuration
- Signal connectors for iMNx, DSO (Distribution System Operators: remote control enabling the utility to suspend the charge*) and TIC (for France only, function requested to connect Linky meter)



Anti-Tripping Module

Power load management

- Continuously adapts the charging power, taking home consumption and self-generated energy into account (PV, wind, storage...)

Characteristics:

- 1-phase or 3-phase products
- Power Line Communication with pairing: no need for additional cable

*According to Technical Connection Rules VDE-AR-N-4100:2019-04

Commission and control Schneider Charge from the palm of your hand

Connectivity settings via eSetup

- Select or configure the 3rd party charging application (OCPP communication)
- Send information to the owner to let them finalize the connection to their EV charging application

Monitor and control the EV charging station, and much more

- Monitoring, scheduling and cost optimization
- Plus other features depending on the application (grid services…)

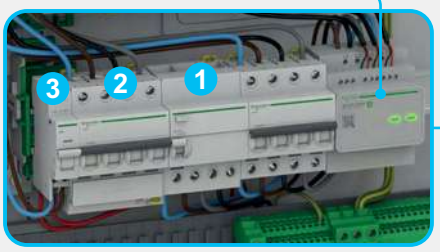
Overview of the Schneider Charge - Family Home Solution

Upgrade
the electrical installation

Charge
at home

Select the EV charging application to **optimize** energy costs

Schneider Charge anti-tripping module:
1-phase or 3-phase Peak Controller



Power Line Communication

1. **RCD Type A-SI or type B** to detect AC residual current (30 mA)
2. **MCB** to provide charging station cable overload protection
3. **MNx:** undervoltage release tripping unit (IEC 61851-1 ed.3)

Option: **RCBO** residual current breaker with overcurrent protection

Commission easily with **eSetup**

Domestic network

(WiFi or Ethernet cable)

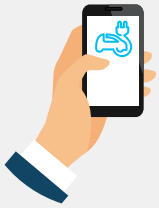
Schneider Charge

Wiser™

Home Energy Management System

All-in-one app | Energy consumption dashboard | Charging modes selection

Power: from 7.4 to 22 kW



Or 3rd party EV charging applications

Schneider Electric mobile applications

eSetup or Wiser Home* to commission Schneider Charge

- Firmware upgrade
- Electrical parameter settings
- Wi-Fi connection to home router
- EV charging application: Wiser pre-set

Wiser Home to optimize home energy consumption, including the EV charging

- Remote control and scheduling
- Bill optimization based on Time of Use tariff
- Energy consumption and cost history

Enter **Schneider** Home solution

Schneider Charge is part of **Schneider** Home, a simple, scalable and futureproof solution enabling the homeowners who produce and store solar energy with Schneider Inverter and Schneider Boost to monitor, control and optimize their home energy flow with Wiser Home.

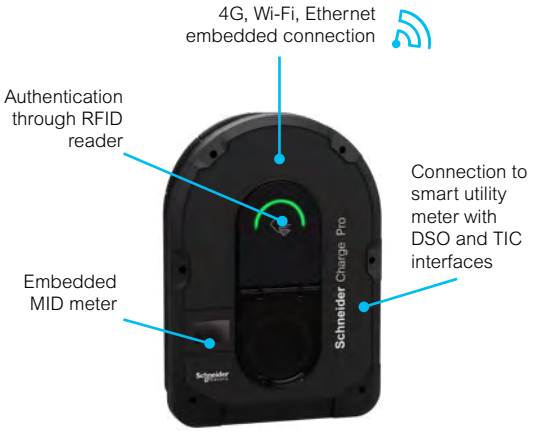
* According to your country

eMobility for
Residential Applications

Schneider Charge Pro is designed for Single or multifamily needs

Fleet at Home

Accelerate corporate car electrification with our open solution, Schneider Charge Pro, a robust EV charger that simplifies home charging reimbursement and minimizes the power supply disruption thanks to anti-tripping module in single family homes.



Schneider Charge Pro

AC charging station with MID meter and native connectivity

Characteristics:

- Combine 1P-3P from 7.4 kW up to 22 kW
- T2S socket or 7 m attached cable with T2 connector
- OCPP 1.6J

Easy installation, wiring and comissioning:

- Three cabling options
- Connectors for fast and long-time wiring
- On-site configuration with eSetup mobile app
- Wi-Fi direct connectivity

Customer benefits

For Charge Point Operators:

- Designed for large-scale deployment
- Versatile offer
- Reduced Total Cost of Ownership
- Easy integration into CPO management system
- Certified energy measurement for billing (MID)

For Electrical Contractors:

- Reduced installation time
- Fast to commission
- Robust solution
- Technical support and services from Schneider Electric

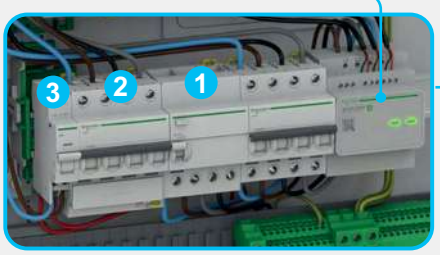
For Employees:

- Charge at home
- Optimized comfort thanks to EV load management
- Attractive design
- Connectable with CPO driver app
- Easy reimbursement of EV charging fees

Overview of EV Charging Solution

Upgrade
electrical installation

Anti-tripping module: 1-phase or 3-phase Peak Controller



1. **RCD Type A-SI or Type B*** to detect AC residual current (30 mA)
2. **MCB** to provide charging station cable overload protection
3. **MNx:** undervoltage release tripping unit (IEC 61851-1 ed.3)

Option: **RCBO** residual current breaker with overcurrent protection

Power Line Communication

Charge
corporate EVs at home

Schneider Charge Pro
Power: from 7.4 to 22 kW

OCCP 1.6J

Integrate
to CPO management system

Install base monitoring and individual billing via the CPO Management system

Commission with **eSetup**

*In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.

eMobility for Buildings Applications

EV charging infrastructure for residential buildings*

Accelerate charging infrastructure deployment at apartment buildings with our open solution, Schneider Charge Pro, an affordable EV charger that simplifies billing, optimizes comfort of residents and manages EV loads in real-time thanks to EcoStruxure EV Charging Expert.

Integration with Charge Point Operator's management system

Schneider Charge Pro is easy to connect to any system thanks to OCPP 1.6-J

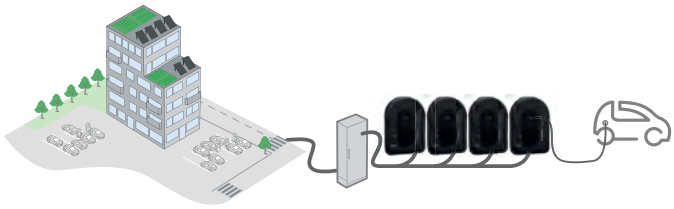
Charging Supervision Management System

Compatible with EV driver application from CPO

Load management system

EcoStruxure EV Charging Expert:

- Distribution of available power, including local production, for all charging stations
- Peak/off-peak hours EV charging management



Customer benefits

For Charge Point Operators:

- Versatile offer
- Reduced Total Cost of Ownership
- Easy integration into CPO management system
- Certified energy measurement for billing (MID)

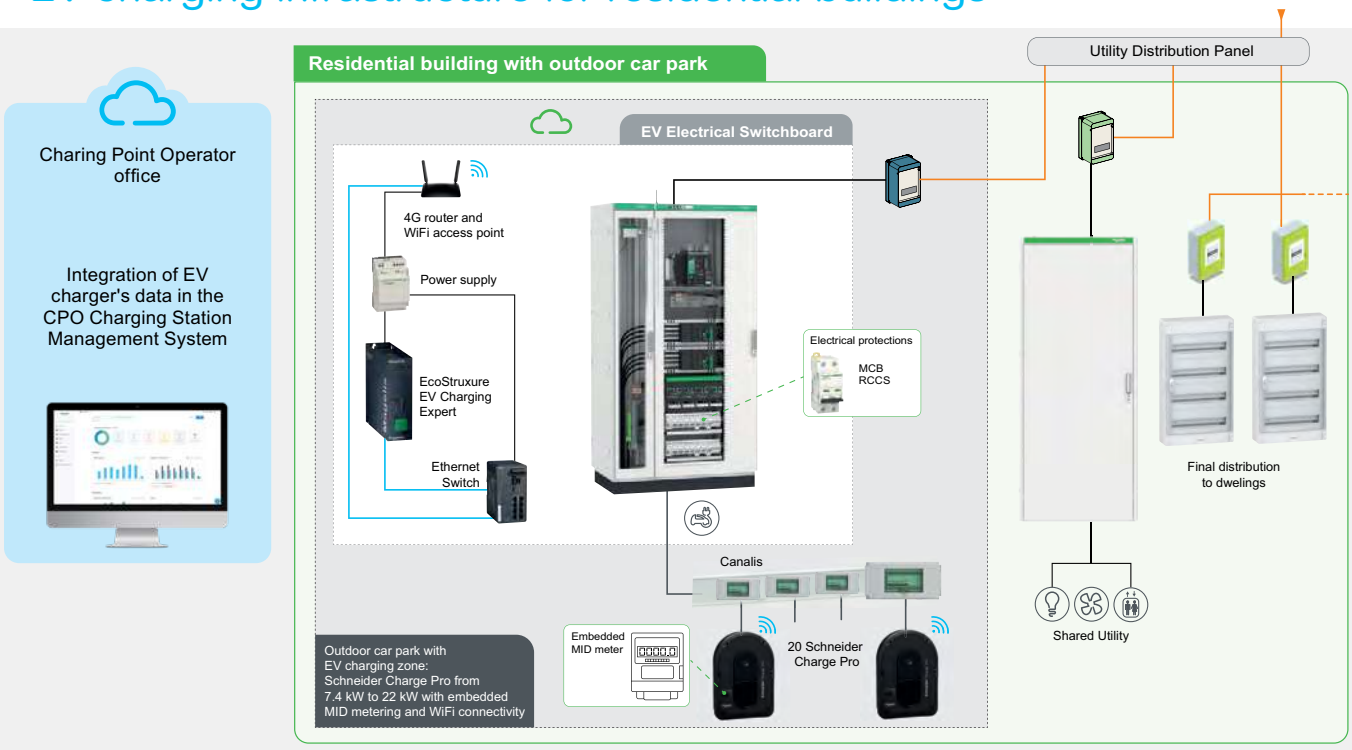
For Electrical Contractors:

- Reduced installation time
- Fast to commission
- Robust solution
- Technical support and services from Schneider Electric

For Owner-corporations:

- Minimized property development costs
- Open and ready for operations
- Compliant with local regulations
- Scalable EV infrastructure

EV charging infrastructure for residential buildings



*Available in April 2025 for selected countries.

eMobility for Buildings Applications

From a scalable to an optimized solution for tertiary sites

Watch the video

EVlink Pro AC

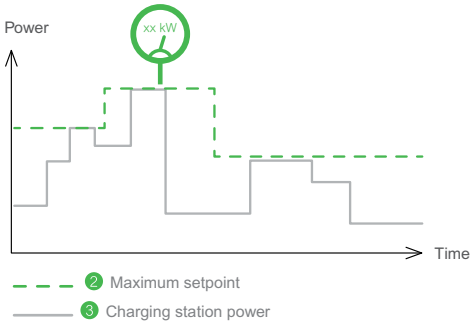
Connected EV charging stations

- Optimized usage and usability:
  - Reduced maintenance time
  - Robust design (IP55/IK10 rated) for indoor/outdoor installations
  - Customizable charging stations
- Embedded protection for power distribution (RCD; iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant: precision metering (MID meters)
- Flexible and modular:
  - Interoperability with supervision solutions (OCPP 1.6-J)
  - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 upgradable)

EVlink Pro DC

Fast charging: 180 kW and 60 kW dual connectors

- Certified to the highest electrical standards
- Dynamic load balancing between vehicle connectors
- Robust design for outdoor or indoor installations (IP55)
- Authentication: RFID/NFC reader or auto-charge (mac address)
- Interoperability with supervisions systems (OCPP 1.6-J)
- Repairable product, Green Premium labelled
- Worldwide network providing on-site service for commissioning and maintenance



EcoStruxure EV Charging Expert

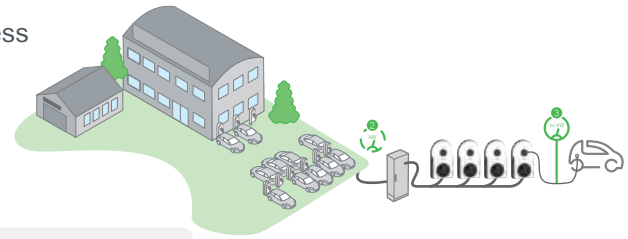
Load Management System

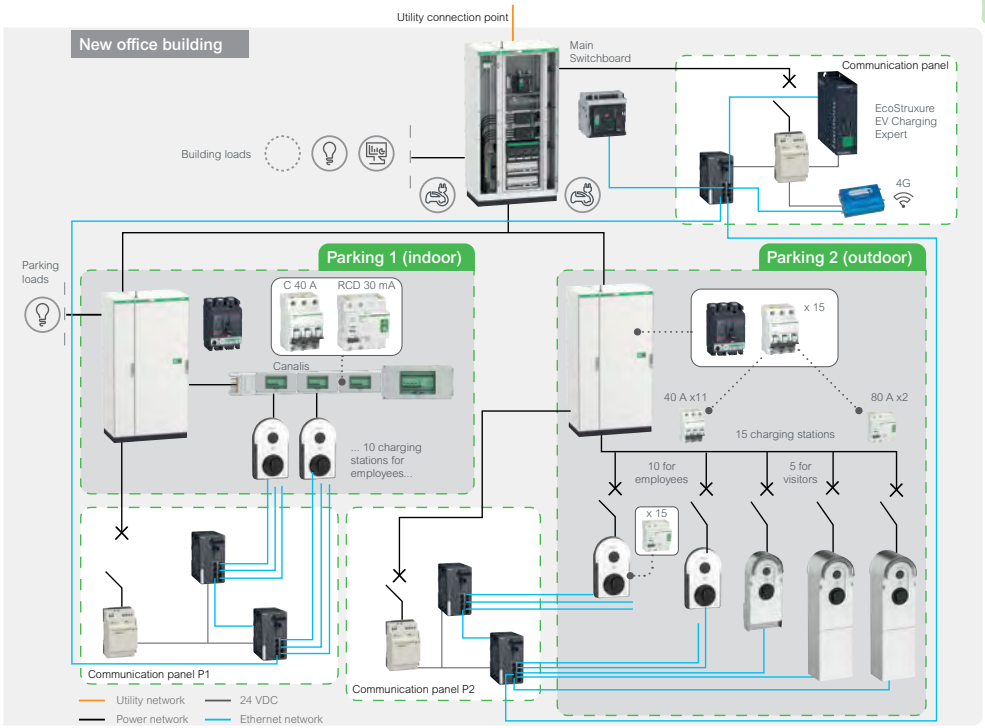
- Dynamic distribution of available power among charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of EV charging stations based on an open protocol (OCPP 1.6-J)

Watch the video

Charging infrastructure for employees or customer's driving EVs

EcoStruxure for eMobility provides a first easy step for business owners to start up electric mobility in their companies while keeping investment, utility costs and power supply fully optimized. Improving the customer experience and satisfying employees driving an electric vehicle, all at the same time.





Customer benefits

For electrical contractors:

- Reduced installation time
- Guided commissioning
- Schneider Electric Partner certification and training program

For building owners:

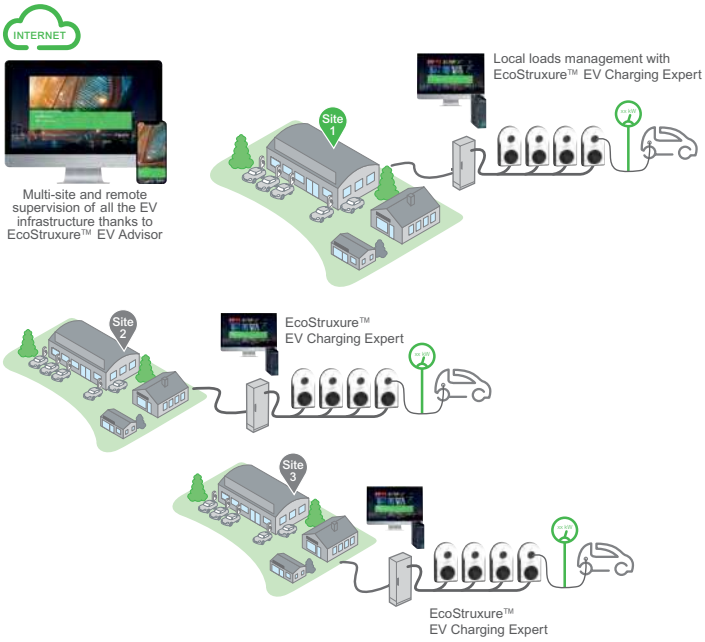
- Demonstration of sustainability commitments
- Improved employee satisfaction and customer loyalty
- Optimized power availability
- Scalable infrastructure
- In-house operations or delegated to external charge point operator

Multi-site Application with EcoStruxure™ EV Advisor*

EcoStruxure EV Advisor our cloud-based supervision system enables building owners and businesses to seamlessly integrate electric mobility on all their sites. Complying with local regulations while offering a futureproof and convenient solution to serve EV drivers, EcoStruxure EV Advisor covers multiple use-cases.

EcoStruxure EV Advisor covers multiple use-cases and provides a convenient solution for EV Drivers.

- Remote monitoring, control and troubleshooting
- Analytics and API capability
- Custom tariff setting and multiple methods of collecting payment
- Accessible by registered EV drivers and/or ad-hoc



For operators:

- Optimize your operation
- Generate revenue
- Increase visibility
- Elevate your brand

For building owners:

- Easy to use
- Optimized continuity of service

*Available soon in selected European countries. Contact us to find out more

eMobility for Buildings Applications

Transition car parks or fleets to net-zero transportation

EVlink Pro DC with Credit Card Reader

EVlink Pro Pay payment kiosk

Payment terminal solutions for EV charging infrastructures

- Contactless payment
- Pin on glass
- VISA, Mastercard, Apple Pay, Google Pay
- Dynamic Display of pricing policy
- Electronic receipt by QR code
- Color touch screen
- Manage payment for up to 10 chargers
- LAN or 4G connectivity
- Integrated with EcoStruxure EV Advisor

Cloud-based supervision and parking management system integration

Our eMobility solution can be connected to a Charging Station Management System such as our EcoStruxure EV Advisor or a 3rd party solution. These systems perform user access management, payment collection and many more, and/or can be integrated with parking management systems and others via API.

Integrate your daily business operations seamlessly with our EV charging infrastructure management solution EcoStruxure EV Advisor.

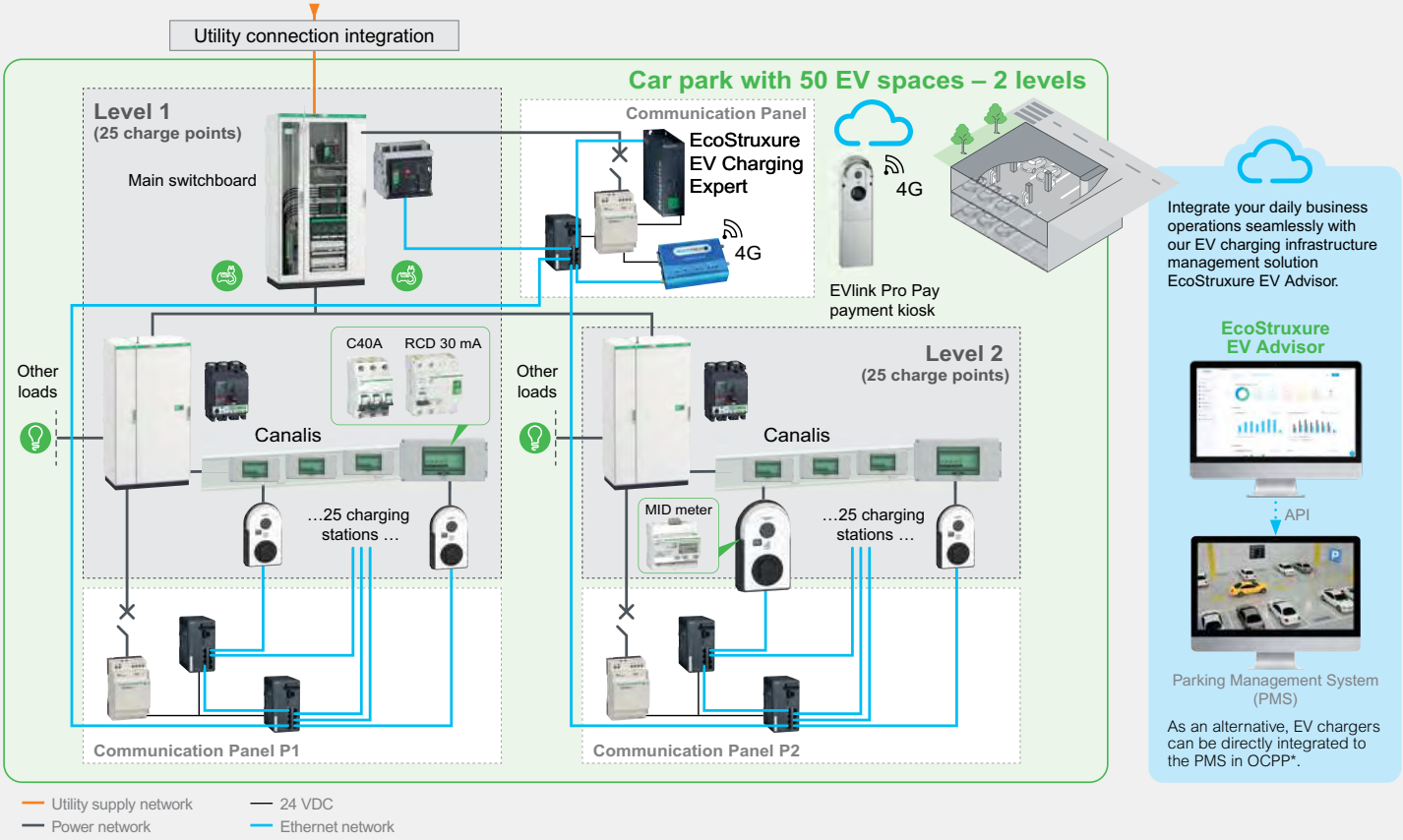
EcoStruxure™ EV Advisor

Parking Management System

Fleet Management System

Charging infrastructure for underground car parks with 2 EV zones

With EcoStruxure for eMobility, parking and EV-charging offer a fully integrated one-stop service for visitors increasing customer satisfaction and generating new revenues at the same time.



Customer benefits

For car park operators:

- Attract EV drivers and create an additional revenue stream
- Offer visitors a one-stop service
- Optimize power availability and reduce energy costs
- Integration with parking management system
- Get technical support and services for your EV infrastructure

For car park owners:

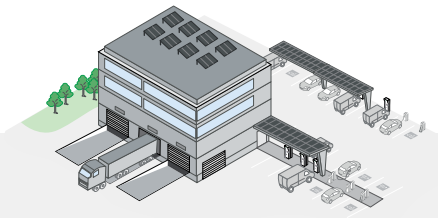
- Minimize development costs
- Offer an EV service as a path to sustainability
- Get a modular, flexible and scalable charging infrastructure ahead of future needs

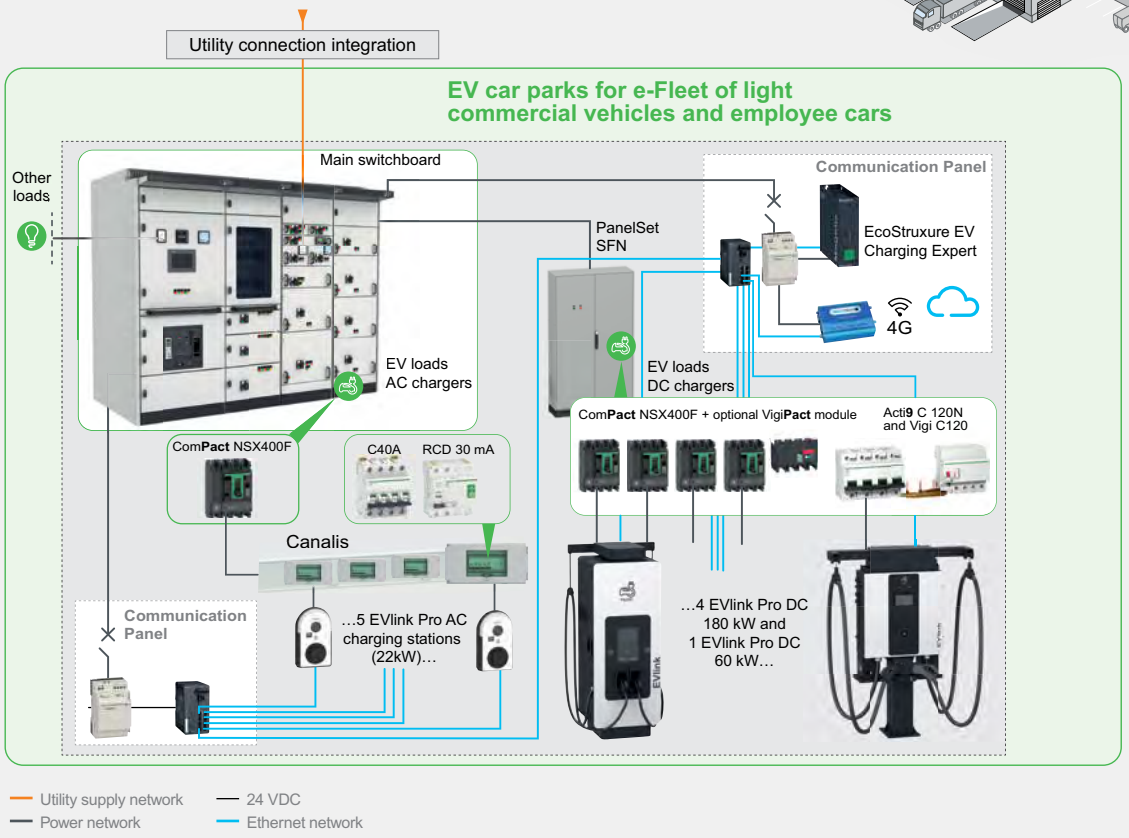
* Find out more details in our Design guide for Building applications.

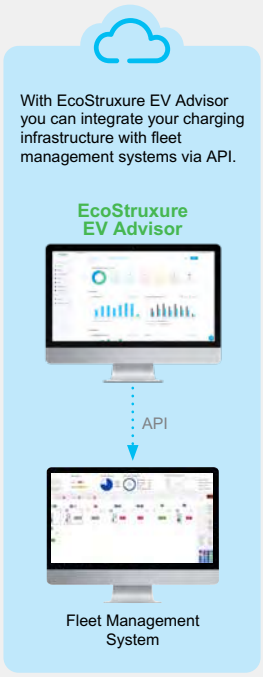
eMobility for
Buildings Applications

Charging infrastructure for a Depot with AC and fast DC chargers

EcoStruxure for eMobility is a comprehensive solution combining a line-up of high quality chargers from 7 kW AC to 180 kW DC, tailored electrical distribution, and Schneider Electric load's management expertise: a complete solution that actively helps decarbonize fleet operations.







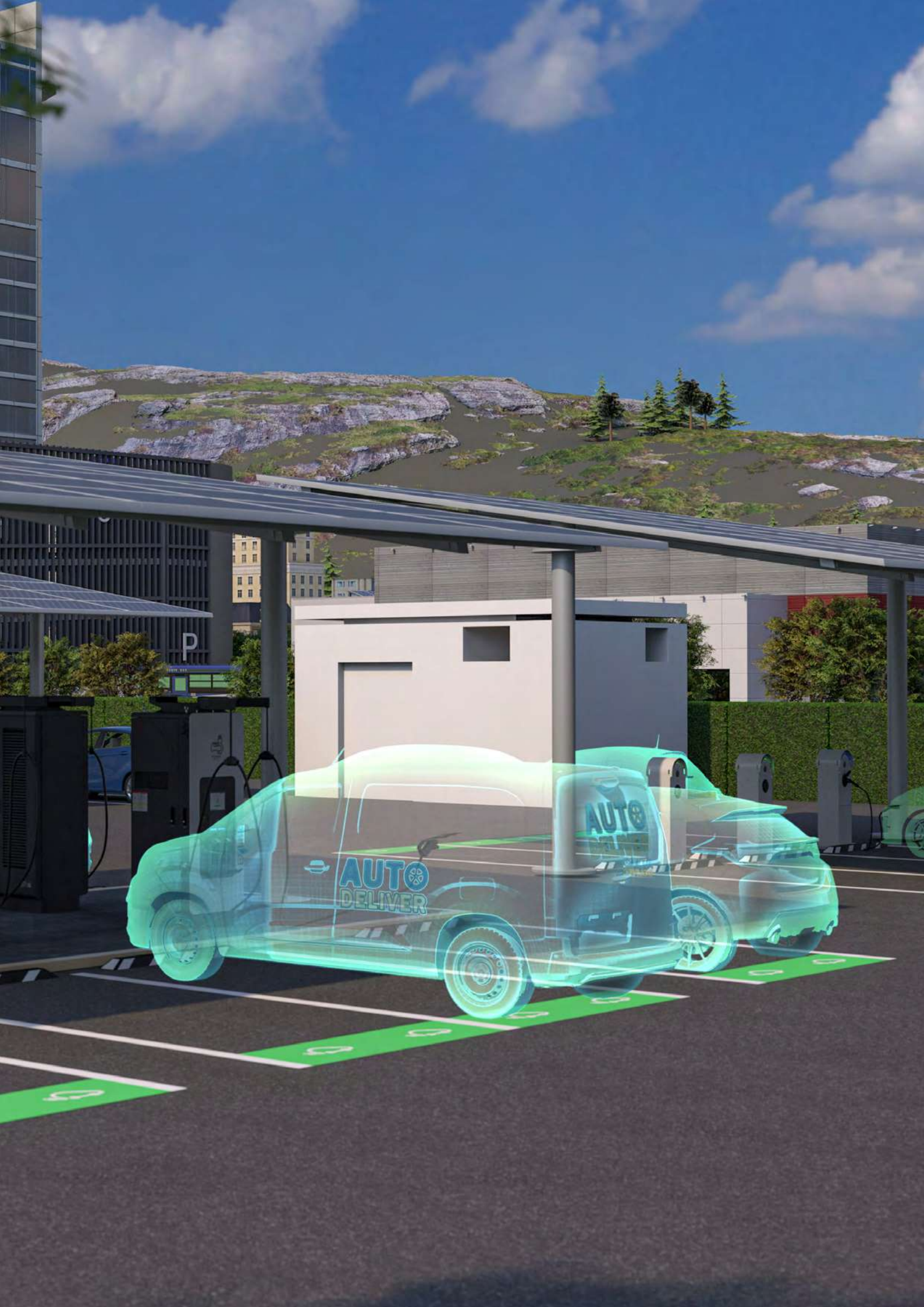
Customer benefits

For fleet managers:

- Decarbonize operations and start the journey to net-zero transportation
- Make certain the fleet is always charged and running on schedule.
- Get a modular, flexible and scalable charging infrastructure to anticipate future needs

For building owners/managers:

- Install charging infrastructure without compromising building processes
- Comply with new regulations
- Optimize power availability, energy costs and energy consumption
- Deploy lasting protection of the system using PanelSeT SFN


P
AUTO
DELIVER

eMobility solutions
Panorama per Applications

RESIDENTIAL

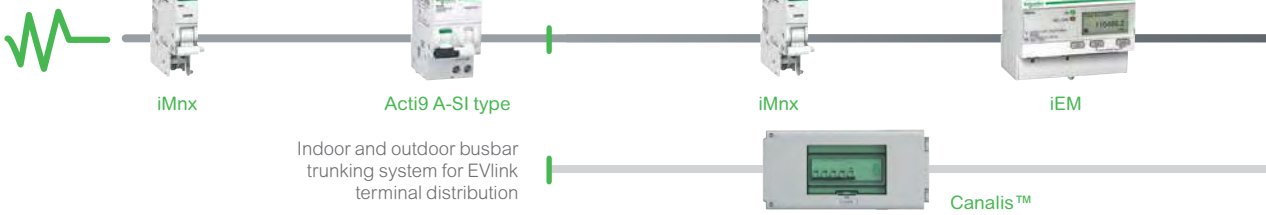
Single Family Home

Schneider Charge
Native connectivity with or without attached cable

Multifamily Home

Schneider Charge Pro
Embedded modem with or without MID meter

Electrical distribution for eMobility
From grid to EV



Wiser
or 3rd party application to monitor and control the EV charging

EcoStruxure™ EV Advisor*

Anti-tripping module

1-phase or 3-phase

EcoStruxure™ EV Charging Expert

*Available in selected countries. Contact us to find out more.

BUILDINGS

At work

EVlink Pro AC
EVlink Pro AC Metal

At destination

EVlink Pro DC 60 kW
Floor standing or Wall mounted

At fleet depot

EVlink Pro DC 120-180 kW
Fast Charging Station

Energy Meters

Acti9 A-SI type

Acti9 B type

Earth leakage and electrical protection

Acti9 C120N

Acti9 Vigi120

ComPact NSX

VigiPacT Add-on

eMobility Services

Maximize the performance of your EV infrastructure and keep your assets running in optimum condition throughout the whole lifecycle, from consulting through to modernization of your park of charging stations.

Remote supervision for charge point operators, contractors and fleet operators, to easily monitor, control and troubleshoot EV charging infrastructure, to manage charging data records, and to collect revenue from EV Drivers.

A charging load management system that helps you to efficiently control your EV infrastructure and smartly distribute available power to your charging stations.

Images of the offers are not contractual.


Charge

Schneider Charge
Electric Vehicle charging stations and accessories

Schneider Charge

Characteristics

Environmental Data Program

RoHS compliant
Reach compliant

Certification

Schneider Charge has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards

EN 61851-1 Ed3.0 (2019)
EN61000-6-1
EN61000-6-3
IEC61851-21-2

Charging station offer

Charging power:
Attached cable version: 5 m or 7 m with T2 connector:
7.4 kW single-phase or 11 kW three-phase

T2S version:
7,4 kW 1-phase and 11 kW/22 kW 3-phase

- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with shutter
- Attached cable (5 m or 7 m) with T2 connector

Power supply network

- 230 V +/- 10% single-phase - 50-60 Hz for 7,4 kW charging stations
- 400 V +/- 10% three-phase - 50-60 Hz for 11 kW/22 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S, IT/TT without Neutral (230 V AC only)

Mechanical and environmental characteristics

- Ingress protection code: IP55
- Impact protection code: IK10
- Operating temperature:

	T2 socket outlet	Attached cable
1P 32 A	-30...50°C	-35...50°C
3P 16 A	-30...55°C	-35...55°C
3P 32 A	-30...45°C	

- Storage temperature: -40°C to +85°C
- Relative humidity 5% to 95%
- Altitude < 2000 m
- Attached cable length: 5 m for versions supporting it

Dimension

- Attached cable version: 352x244x107 mm
- T2S version: 352x244x117 mm
- Weight:

T2 socket outlet	Attached cable	
	1P + N	3P + N
3.3 kg	5m: 4.5 kg 7m: 5.3 kg	5m: 4.5 kg 7m: 5.2 kg

Installation

- Wall mounting

Anti-tripping

- Exclusive energy management options: real-time maximum charging current control (with the addition of an external anti-tripping module)
- Power Line Carrier communication between the charging station and the anti-tripping module

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Commissioning:

- eSetup mobile phone application or Wiser Home (according to your country)

Operation

Interoperable with EV charging applications
- Wiser (France, Germany, Spain, Portugal, Sweden, Norway, Finland, Denmark)
- Third party EV charging applications

Charging station references

Schneider Charge

EVH5A22N2S

Schneider Charge					
References [1]	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N2S	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter
With attached 5 m[1] cable and T2 connector					
EVH5A07N2C5	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C5	3PH	-	11	16 A	with 6 mA DC filter
With attached 7 m[1] cable and T2 connector					
EVH5A07N2C7	1PH	-	7.4	32A	with 6 mA DC filter
EVH5A11N2C7	3PH	-	11	16 A	with 6 mA DC filter

[1]References to be defined and local availability to be checked by Schneider Electric front offices.

Schneider Charge with TIC[2] (France offer)					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH5A22N400F	1P/3P+N	T2S	(7.4)(11)/22	32A	with 6 mA DC filter

[2]For France only : TIC- Anti-tripping module connected to the energy meter (Linky)

Protections and options with Schneider Charge

Description			
Charging	Single-phase	Three-phase	
Rated Power - Current	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection			
Circuit breaker (overcurrent) [1]	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]	30 mA A-SI Type or Type B[2]	30 mA A-SI Type or Type B[2]	30 mA A-SI Type or Type B[2]
Under voltage tripping auxiliary [3][4]	iMNX	iMNX	iMNX

[1] References to be defined and local availability to be checked by Schneider Electric front offices.
[2] In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.
[3][4] iMNX is mandatory in case of charging station damage following a downstream short circuit.

Commission and control Schneider Charge from the palm of your hand

Wiser
(Available in France, Germany, Spain, Portugal, Sweden, Norway, Finland and Denmark)

Easy to sign up:
- Download Wiser on Appstore and Google Store
- Scan your charger QR code to pair your charger

Schedule and adapt:
- Plan your charging time
- Adjust your energy mix
- Start and/or Stop the charge

History:
- Track your charging session power and associated cost

Third-party EV charging applications
Monitor, control the EV charging station, and much more

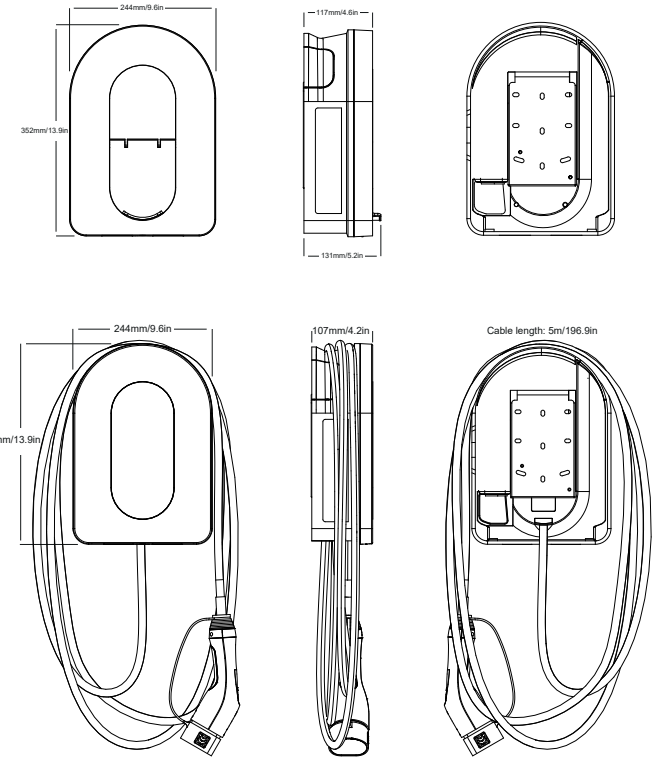
- Monitoring, scheduling and cost optimization
- Plus other features depending on the application (smart charging, grid services…)

Schneider Charge is part of **Schneider** Home, a simple, scalable and futureproof solution enabling the homeowners who produce and store solar energy with Schneider Inverter and Schneider Boost to monitor, control and optimize their home energy flow with Wiser Home.

Learn more on se.com

Schneider Charge

Charging stations dimensions



With socket outlets

≈ 3.2 kg (7.05 lb)
T2 – 7.4 kW / 11 kW / 22 kW

With attached cable

5 m ≈ 4.5 kg (9.92 lb) – 7.4 kW
7 m ≈ 5.3 kg (11.68 lb) – 7,4kW

5 m ≈ 4.5 kg (9.92 lb) – 11 kW
7 m ≈ 5.2 kg (11.46 lb) – 11 kW

Watch the video

Accessory references

EVlink Cable

To connect the car to the charging station. Available in different lengths with a T2 connector.

Please refer to page 44

EV cable holder

Reference: EVA5GH

Anti-tripping modules

1-phase or 3-phase peak controllers

The anti-tripping module is a power load management system that continuously adapts the power supplied to charge the car, taking home consumption into account.

Please refer to page 29

Technical documentation

Please refer to bibliography in Appendix

Schneider Charge Pro
Electric Vehicle charging stations and accessories

Schneider Charge Pro

Characteristics

EVB4S22N40
EVB4S22N40G
EVB4S22N40M
EVB4S22N40MG

EVB4S22NC0
EVB4S22NC0G
EVB4S22NC0M
EVB4S22NC0MG

Environmental Data Program

RoHS compliant
Reach compliant

Certification

Schneider Charge Pro has obtained the test certificate, establishing compliance with the IEC/EN 61851-1 standard.

Standards

IEC 61439-7
IEC 62955
EN/IEC 61851-21-2
EN/IEC 61000-6-1
EN/IEC 61000-6-2
EN/IEC 61000-6-3
EN/IEC 61000-6-4
E.V. READY 2.0A
EN 301489-1
EN 301489-3
EN 301489-17
EN 301489-52
EN 301511
EN 301908-1
EN 301908-2
EN 301908-13
EN 300328
EN 300330
EN/IEC 62311

Charging station offer

Charging power:
Attached cable version: 7 m with T2 connector:
7.4 kW single-phase or 11 kW/22 kW 3-phase

T2S version:
7.4 kW 1-phase or 11 kW/22 kW 3-phase

- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with shutter
- Attached cable (7 m) with T2 connector

Access control modes

- Free access
- User authentication through RFID or NFC badge
  - NFC 13.56 MHz reader compatible with Class 1, Class 2, Class 3, Class 4, Class 5, Class 6 badges
  - RFID reader:
    - conforming to ISO/IEC 14443 A and B and ISO/IEC 15693 protocols,
    - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus

Versatile connection to a supervision

- Wired Ethernet: 2 ports support star and daisy chain
- Connection through embedded 4G or Wi-Fi modem
- OCPP 1.6 Json Smart Charging interface
- Energy management options:
  - Peak controller (see details about anti-tripping on next page)
  - Digital inputs for DSO and TIC interface for French utility meter or universal energy meter

Mechanical and environmental characteristics

- Ingress protection code: IP55
- Impact protection code: IK10
- Operating temperature: -30 to 50°C
- Storage temperature: -40°C to +85°C
- Relative humidity 5% to 95%
- Altitude < 2000 m
- Attached cable length: 7 m for versions supporting it

Dimension

- Attached cable version: 292 x 418 x 119 mm
- T2S version: 292 x 418 x 136 mm
- Weight: 4.5 kg for T2S ; 7.6 kg for attached cable

Installation

- Wall mounting
- Pedestal for 1 or 2 charging stations

Power supply network

- 220-240 V AC +/- 10 %, single-phase, 50/60 Hz for 7,4 kW charging stations
- 380-415 V AC +/- 10 %, three-phase, 50/60 Hz for 11 kW/22 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TN-S, TN-C-S, TT, IT (220-240 V only)
- Schneider Charge Pro IT: 1Ph and 3Ph only support 220-240 V.

Anti-tripping

- Exclusive energy management options: real-time maximum charging current control with the addition of an external anti-tripping module
- Power Line Carrier communication between the charging station and the anti-tripping module

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Commissioning:

- eSetup mobile phone application

Operation

- Interoperable with Schneider Electric or third party EV charging applications, EcoStruxure EV Charging Expert and local or remote Charging Station Management Systems

Charging station references

Schneider Charge Pro

Schneider Charge							
References [1]	Number of phases	Type of socket	Power kW	Output current	Embedded 4G Modem	Embedded MID Meter	Embedded protection
T2 with shutters							
EVB4S22N40	1P/3P+N	T2S	7.4/11/22	32A	No	No	with 6 mA DC filter
EVB4S22N40M	1P/3P+N	T2S	7.4/11/22	32A	No	Yes	with 6 mA DC filter
EVB4S22N40G	1P/3P+N	T2S	7.4/11/22	32A	Yes	No	with 6 mA DC filter
EVB4S22N40MG	1P/3P+N	T2S	7.4/11/22	32A	Yes	Yes	with 6 mA DC filter
With attached 7 m[1] cable and T2 connector							
EVB4S22NC0	1P/3P+N	Att cable	7.4/11/22	32A	No	No	with 6 mA DC filter
EVB4S22NC0M	1P/3P+N	Att cable	7.4/11/22	32A	No	Yes	with 6 mA DC filter
EVB4S22NC0G	1P/3P+N	Att cable	7.4/11/22	32A	Yes	No	with 6 mA DC filter
EVB4S22NC0MG	1P/3P+N	Att cable	7.4/11/22	32A	Yes	Yes	with 6 mA DC filter

[1]References to be defined and local availability to be checked by Schneider Electric front offices.

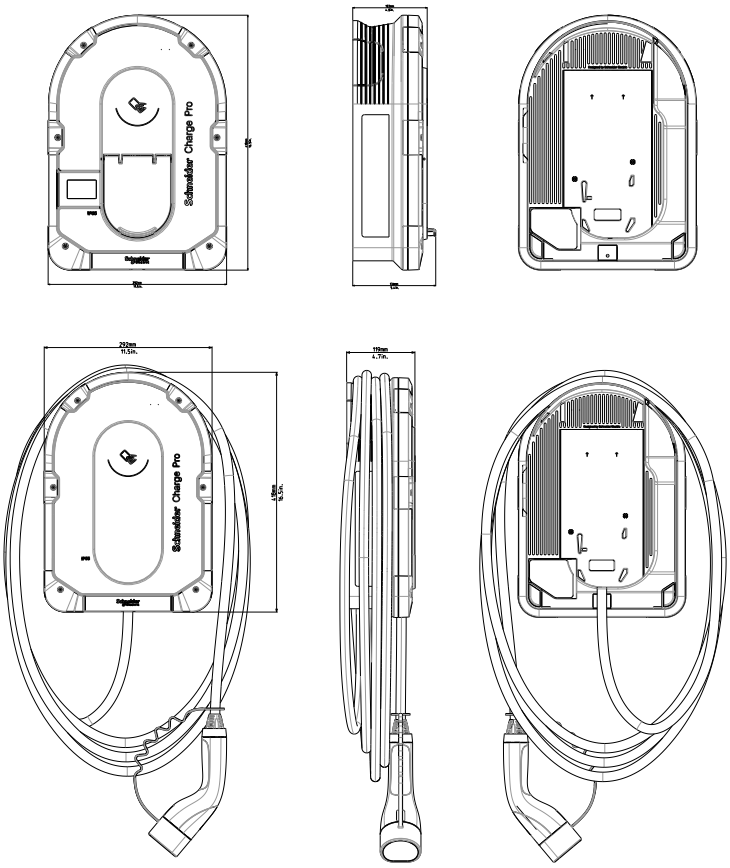
Protections and options with Schneider Charge Pro

Description			
Charging	Single-phase	Three-phase	
Rated Power - Current	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection			
Circuit breaker (overcurrent) [1]	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]	30 mA A-SI Type or Type B[2]	30 mA A-SI Type or Type B[2]	30 mA A-SI Type or Type B[2]
Under voltage tripping auxiliary [3][4]	iMNX	iMNX	iMNX

[1] References to be defined and local availability to be checked by Schneider Electric front offices.
[2] In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.
[3][4] iMNX is mandatory in case of charging station damage following a downstream short circuit.

Schneider Charge Pro

Charging stations dimensions



With socket outlets

≈ 4.5 kg (9.92 lb)
T2 – 7.4 kW / 11 kW / 22 kW

With attached cable

≈ 7.6 kg (16.75 lb)
7 m attached cable - 7,4kW / 11 kW / 22 kW

Anti-tripping modules

1-phase or 3-phase peak controllers

The anti-tripping module is a power load management system that continuously adapts the power supplied to charge the car, taking home consumption into account.

Accessory and Spare parts references

EVlink Cable

To connect the car to the charging station. Available in different lengths with a T2 connector.

Please refer to page 44

Pedestal mounting pole

Floor standing:
- for 1 Schneider Charge Pro
  Reference: **EVA2PBS1**
- for 2 Schneider Charge Pro
  Reference: **EVA2PBS2**
- Plate to convert the pedestal for 1 charger to a pedestal for 2 chargers.
  Reference: **EVA2PCS2**

EV cable holder

Reference: EVA5GH

TS2 Socket

Reference: EVP2SSS43

Anti-tripping module
for Schneider Charge and Schneider Charge Pro

Characteristics

1-phase Universal Peak controller:

EVA4HPC1
from 16 A to 50 A

EVA2HPC1
from 32 A to 100 A

3-phase Universal Peak controller:

EVA2HPC3
from 16 A to 50 A

Environmental Data Program

RoHS compliant
Reach compliant

Standards

EN 61326-1-2013
EN 61010-1-2010

Main function

- Home Anti-tripping is a power load management system that adapts the power supplied to charge the car continuously, taking home consumption into account*.
- The power availability is calculated by the Home Anti-tripping System comparing the utility power limit and the home consumption gathered by a current transformer positioned on the bottom of the main circuit breaker.
- For photovoltaic application it continuously adapts the charging power taking home consumption and self-generated energy (PV, wind, storage...) into account.

* The Anti-Tripping Module limits the maximum power draw of the charging station, in some cases completely stopping the charging according to the power available in the electrical installation, especially if the home is equipped with a heat pump. Minimum recommendation: 25A 3P+N.

Pairing functionality:

- Pairing functionality with Schneider Charge and Schneider Charge Pro charging station.
  Up to 6 pairs can be used at the same time within PLC function range (200-meter power cable length).

Power supply network and electrical characteristics

- 220-240 V AC (+/- 10%) 50/60 Hz
- TN-S, TN-C-S, TT, IT (only 220-240V, single-phase)
- Rated power:
  - 1Ph: 4 W
  - 3Ph: 5 W
- Overvoltage category: III, Pollution degree: 2
- Insulation degree: reinforced insulation

Mechanical and environmental

- Dimensions:
  - 1Ph: 70.4 x 93.2 x 68.8mm
  - 3Ph: 72 x 89 x75 mm
- Weight:
  - 1Ph: 196 g
  - 3Ph: 180 g
- Mounting type: Top-hat rail mounting
- Nominal temperature -30°C to +50°C

Settings

- Possible current value settings:
- 1P (EVA4HPC1): 16A, 20A, 25A, 32A, 40A and 50A
- 1P-HR (EVA2HPC1): 32A, 40A, 50A, 63A, 80A and 100A
- 3P (EVA2HPC3): 16A, 20A, 25A, 32A, 40A and 50A

Communication

- Communication with Schneider Charge and Schneider Charge Pro charging stations via Power Line Carrier

Technical documentation

Please refer to bibliography in Appendix

EVlink™ Pro AC and Pro AC Metal

Electric Vehicle charging stations and accessories

EVlink™ Pro AC

Characteristics

Power supply network
- 220 - 240 V AC single-phase – 50/60 Hz for 7.4 kW charging stations
- 380 - 415 V AC three-phase – 50/60 Hz for 11 and 22 kW charging stations

Earthing system
- TT, TN-S, TN-C-S
- 3 phases versions with embedded RCD (A or B) are not compliant with single phase distribution or 3x230 Vac (ph-ph) distribution
- EVlink Pro AC is compatible with IT single-phase network only, and is not compatible with 400V 3-phase IT network

Rated charging current
- T2S socket outlet with shutters and silver-plated contacts: 16 A to 32 A (factory setting: 32 A)
- TE or TF domestic socket-outlet: 10 A
- T2 attached cable, length 5 meters: 16 A to 32 A
- Socket-outlet on the front

Mechanical and environmental characteristics
- Ingress protection code: suitable for indoor and outdoor use
  - IP55 with T2S socket-outlet
  - IP55 with attached cable
  - IP54 with domestic socket
- Impact protection code: IK10
- Ambient air temperature for operation: -30°C to +50°C (+40°C for EVlink Pro AC with embedded RCD type Asi)
- Ambient air temperature for storage: -40°C to +80°C (+70°C for EVlink Pro AC with embedded RCD type Asi)
- Energy management options:
  - via digital inputs: limited current, postponed/suspended charge,
  - dynamic energy management combined with TIC interface with French utility meter or universal energy meter
- EV presence detection via digital input

Access control modes
- Free access
- User authentication through RFID or NFC badge
  - NFC 13.56 MHz reader compatible with type 1, 2, 4 and 5 badges
  - RFID reader:
    - conforming to ISO/IEC 14443 A and B and ISO/IEC 15693 protocols,
    - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus

Embedded protection and metering
(depending on commercial references)
- Earth leakage protection: RDC-DD 6 mA + RCD type Asi 30 mA or RCD type B-EV
- Undervoltage tripping auxiliary MNx
- MID energy meter
- Metering board and CTs 1% accuracy

Easy to install and commission
- Wall mounting or floor standing
- 1 or 2 charging stations on the same pedestal
- Parameter setting through eSetup app via Bluetooth or EcoStruxure EV Charging Expert

Versatile connection to a supervision
- Wired Ethernet: 2 ports (1 for daisy chain)
- Connection through embedded or external 3G/4G modem as an accessory
- OCPP 1.6 Json Smart Charging interface. OCA certification in progress

Services
- Worldwide customer care center
- Additional 1- or 3-year Warranty Extension
- On-site or remote commissioning support
- Services Plan
- Schneider Electric manufactured spare parts
- Advanced on-site training
- Worldwide network of partners providing on-site installation, commissioning and maintenance services

RoHS compliant
Reach compliant

Certification
EVlink Pro AC has been certified according the IEC 61851-1 ed3.0 standard by the DEKRA certification body

Standards
IEC/EN 61851-1 Ed 3.0
IEC/EN 62196-1 Ed 2.0 - IEC/EN 62196-2 Ed 1.0
IEC 60364-7-722 Ed.2
EMC IEC 61851-21-2
EMC EN 301 489-1 V2.1.1 - EN 301 489-17 V3.1.1
Upgradable to ISO 15118 Plug and Charge
EV Ready

Charging station commercial references

EVlink Pro AC

Commercial references [1] [2][7]	Type of socket	Domestic socket	Output current	Power kW	Number of phases	Embedded protection	Embedded protection [4]	Protection supplied	Embedded MID meter [6]
EVB3S07NC0	Att T2 [5]	-	32 A	7.1	1PH	RDC-DD 6 mA	MNx	-	-
EVB3S07N40M	T2S	-	32 A	7.4	1PH	RDC-DD 6 mA	MNx	-	Yes
EVB3S07N40EM	T2S	TE	32 A	7.4	1PH	RDC-DD 6 mA	MNx	-	Yes
EVB3S07N4AM	T2S	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	Yes
EVB3S07N4EAM	T2S	TE	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	Yes
EVB3S07NCAM	Att T2 [5]	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	Yes
EVB3S07N4A	T2S	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S07N4EA	T2S	TE	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S07NCA	Att T2 [5]	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S07N4E1	T2S	TE	32 A	7.4	1PH	RDC-DD 6mA	-	-	-
EVB3S07N41	T2S	-	32 A	7.4	1PH	RDC-DD 6mA	-	-	-
EVB3S11N4A	T2S	-	16 A	11	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S11NCA	Att T2 [5]	-	16 A	11	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S11N4FB	T2S	TF	16 A	11	3PH	RCD B EV	MNx	-	-
EVB3S22NC0	Att T2 [5]	-	32 A	22	3PH	RDC-DD 6mA	MNx	-	-
EVB3S22N4	T2S	-	32 A	22	3PH	RDC-DD 6 mA	MNx	-	-
EVB3S22N4E	T2S	TE	32 A	22	3PH	RDC-DD 6 mA	MNx	-	-
EVB3S22N4A	T2S	-	32 A	22	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S22NCA	Att T2 [5]	-	32 A	22	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S22N4EA	T2S	TE	32 A	22	3PH	RDC-DD 6 mA+ RCD Asi 30 mA	MNx	-	-
EVB3S22N4B	T2S	-	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22NCB	Att T2 [5]	-	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22N4EB	T2S	TE	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22N4FB	T2S	TF	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22N4E1	T2S	TE	32 A	22	3PH	RDC-DD 6mA	-	-	-
EVB3S22N41	T2S	-	32 A	22	3PH	RDC-DD 6mA	-	-	-
EVB3S22N40M	T2S	-	32 A	22	3PH	RDC-DD 6 mA	-	-	Yes
EVB3S22N40EM	T2S	TE	32 A	22	3PH	RDC-DD 6 mA	-	-	Yes
EVB3S22N40FM	T2S	TF	32 A	22	3PH	RDC-DD 6 mA	-	-	Yes
EVB3S22NC0M	Att T2 [5]	-	32 A	22	3PH	RDC-DD 6 mA	-	-	Yes
EVB3S22N40MR [3]	T2S	-	32 A	22	3PH	-	-	RCD B EV+MNx	Yes

1) Cable for T2S charger available as an accessory
(2) Includes 1 RFID badge
(3) Recommended for metallic charger, this specific charging station only measures the power consumption of the electric vehicle
(4) An MNx under voltage tripping auxiliary is mandatory in case of charging station damage following a downstream short circuit
(5) Attached cable with T2 connector
(6) MID certified energy meter, IEC accuracy class 1, B (active)
(7) All 3-phase references can be wired as 1-phase except those with embedded RCDs

Protections with EVlink Pro AC

Description			
Charging	Single-phase	Three-phase	
Rated Power - Current	7.4 kW - 32 A [2]	11 kW - 16 A [2]	22 kW - 32 A [2]
Protection			
Circuit breaker (overcurrent) [1]	40 A Curve C	20 A Curve C	40 A Curve C
Delayed start			
Relay	With normally open contact [3]		
Temporary current limitation			
Relay	With normally open contact [3]		

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
(2) With or without domestic socket.
(3) EVlink Pro AC setting can be changed to "normally closed" if necessary, with the eSetup commissioning app.

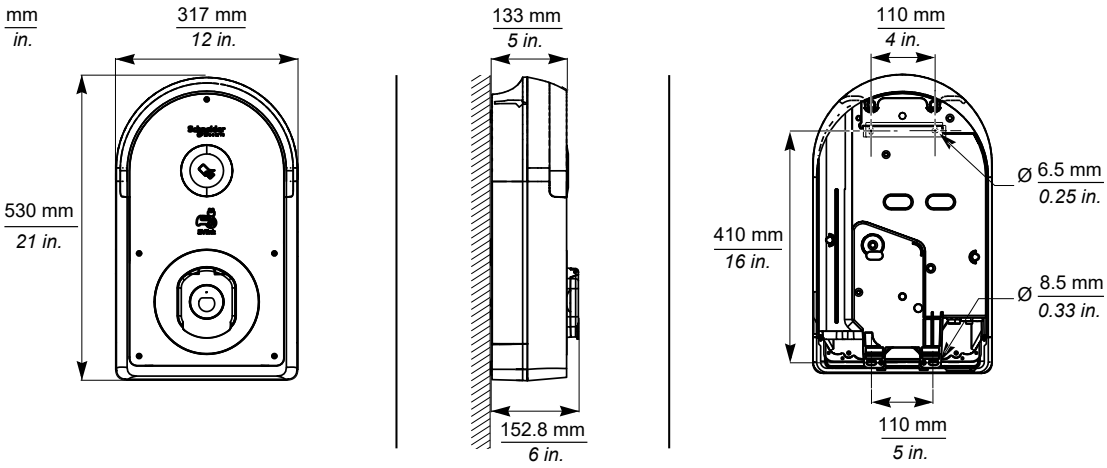
Technical documentation

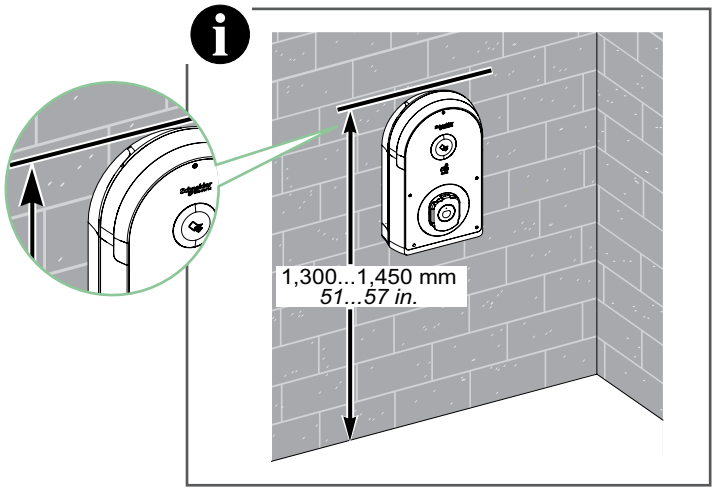
Please refer to bibliography in Appendix

Practical information

Practical information

EVlink Pro AC dimensions





Cable entry from above, below or through the wall

Watch the video

Watch all the videos

With T2S socket outlet	With T2 attached cable
≈ 7.2 kg (15.43 lb)	≈ 10 kg (22.05 lb)

EVlink™ Pro AC Metal

Characteristics


EVA1RWKS1


EVA1RFKS1


EVA1RFKS2

Extensive choice

Features

The EVlink Pro AC Metal charger is sold as a kit and it is available as:
- Wall mounted 1 charge point
- Floor standing 1 or 2 charge points

Design

Refer to page 37 for assembly details.

Power supply network

- Same as EVlink Pro AC

Mechanical and environmental characteristics

- Charging station: same as EVlink Pro AC
- IP3X Metal enclosure
- IP65 Mureva enclosure
- IP66 PanelSeT enclosure

Access control modes

- Same as EVlink Pro AC

Services

- Same as EVlink Pro AC

RoHS compliant
Reach compliant

Standards

IEC/EN 61851-1 ed 3.0
EMC IEC 61851-21-2
IEC/EN 62196-1 ed 2.0
IEC/EN 62196-2 ed 1.0
Enclosures IEC/EN 60529

Technical documentation

Please refer to bibliography in Appendix

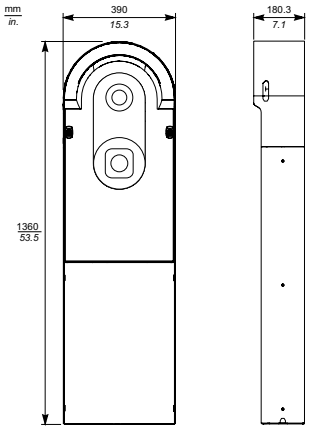
EVlink™ Pro AC Metal

Practical information

EVlink Pro AC Metal assembly time

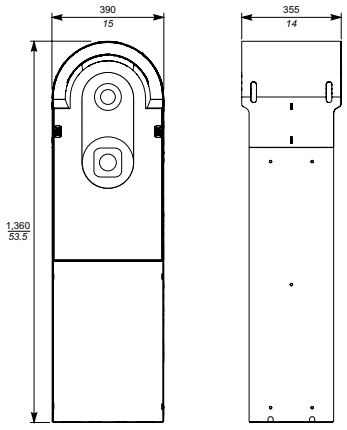
EVlink Pro AC Metal	Average assembly time
Floor standing 2 charge points	90 to 110 min
Floor standing 1 charge point	50 to 70 min
Wall mounted 1 charge point	50 to 70 min

EVlink Pro AC Metal dimensions



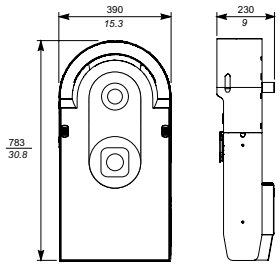
FS1CP: floor standing 1 charge point

EVA1RFKS1



FS2CP : floor standing 2 charge points

EVA1RFKS2



WM1CP: wall mounted 1 charge point

EVA1RWKS1

Watch the video

≈ 7.2 kg (15.43 lb)

EVlink Pro AC

≈ 26 kg (79.36 lb)

EVA1RWKS1

≈ 40 kg (134.48 lb)

EVA1RFKS1

≈ 61 kg (176.37 lb)

EVA1RFKS2

EVlink Pro AC metallic kits

All EVlink Pro AC charging stations can be assembled in any metallic kit.

Part number	Description
EVA1RWKS1	EVlink metallic kit for AC wall mounted 1 charge point
EVA1RFKS1	EVlink metallic kit for AC floor standing 1 charge point
EVA1RFKS2	EVlink metallic kit for AC floor standing 2 charge points

Enclosures

Depending on the protection chosen to be embedded into the EVlink Pro AC Metal charger, the installation of an enclosure (Mureva or PanelSeT) may be necessary.
Refer to the configuration tables on the next pages.

Mureva 13960M

PanelSeT EVA1RFKES

Part number	Description
Mureva IP65 1 x 12 modules of 18 mm - 267 x 200 x 112 mm to install in the EVlink Pro AC metal WM 1CP or FS 1CP and 2 CP	
13979	No terminals
13960M	T terminals
13444	T/N terminals
PanelSeT to install in the EVlink Pro AC FS2CP base for one cable entrance up to 35 mm²	
EVA1RFKES	• 25 and 35 mm²- IP66 270x360x180mm • 1 Telequick plate • 2 DIN rail 240 mm max • 4 fixing brackets • Cable glands: 2xM32, 1xM12, 1x5G25/5G36

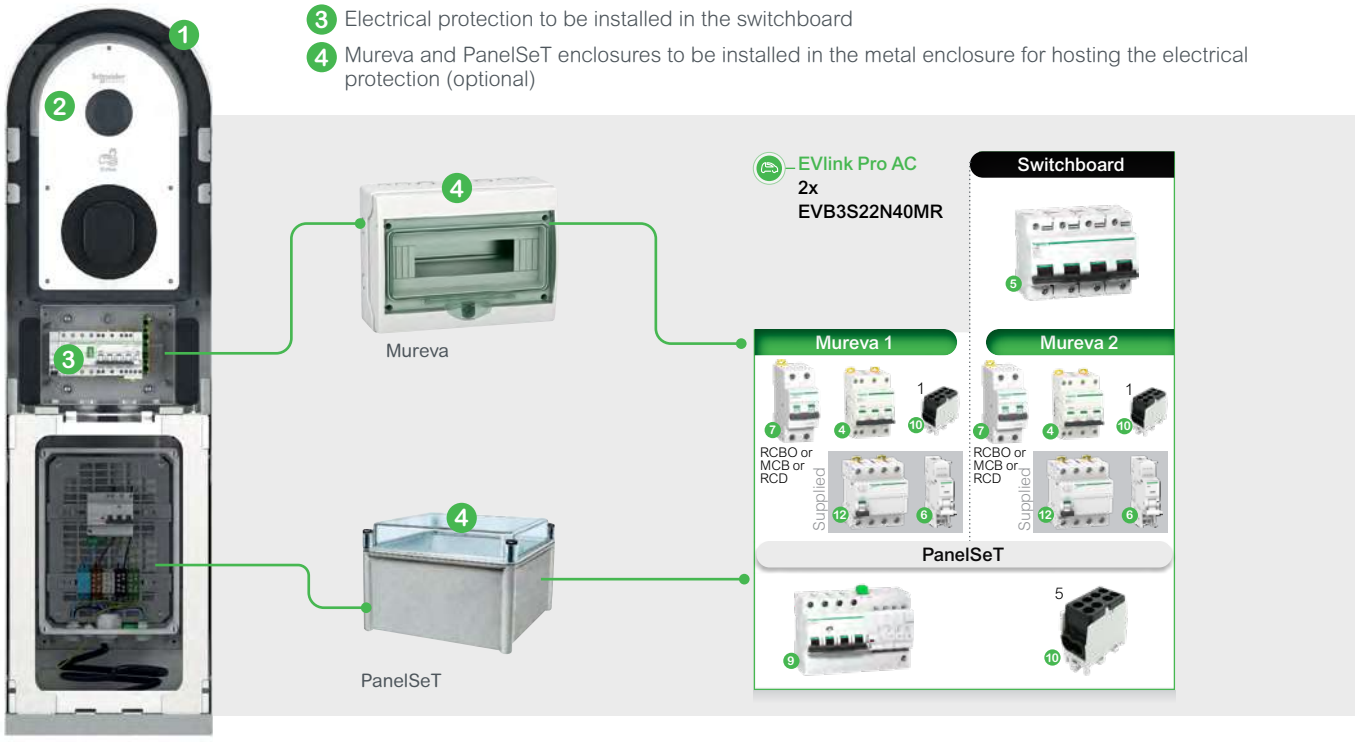
EVlink™ Pro AC Metal

EVlink Pro AC Metal assembly criteria

Wall mounted, floor standing, 1-or 2 charge points

EVlink Pro AC Metal is designed to be handled, assembled and installed by only one person.
The necessary components for assembling the EVlink Pro AC Metal are the following:

1. A metallic kit enclosure: wall mounted for 1 charge point or floor standing for 1 or 2 charge points
2. EVlink Pro AC charging station to be installed inside the metal enclosure, various commercial reference possibilities (see details on p 27)
3. Electrical protection to be installed in the switchboard
4. Mureva and PanelSeT enclosures to be installed in the metal enclosure for hosting the electrical protection (optional)



Legend


1 MCB 1P+N 40 A


2 MCB 2P 80 A


3 MCB 3P+N 20 A


4 MCB 3P+N 40 A


5 MCB 4P 80 A


6 MNx


7 RCBO


8 SPD 1P+N


9 SPD 3P+N


10 Terminal connector 25 mm²


11 Type Asi RCD monophasé


12 Type Asi RCD triphasé


13 Type B RCD triphasé

EVlink™ Pro AC Metal

One-Cable, One-Charger

EVlink Pro AC
EVB3S22N40MR

Switchboard

Mureva

Supplied

EVlink Pro AC
EVB3S22N4A or
EVB3S22N4B or
EVB3S22NCA or
EVB3S22NCB or
EVB3S22N4EB or
EVB3S22N4FB or
EVB3S22N4EA

Switchboard

Mureva

EVlink Pro AC
EVB3S22N40M or
EVB3S22NC0M or
EVB3S22N40EM or
EVB3S22N40FM

Switchboard

Mureva

Supplied

EVlink Pro AC
EVB3S07N40M or
EVB3S07N40EM

Switchboard

Mureva

Supplied

EVlink Pro AC
EVB3S22N4 or
EVB3S22N4E or
EVB3S22NC0

Switchboard

Mureva

EVlink Pro AC
EVB3S07NC0

Switchboard

Mureva

EVlink Pro AC
EVB3S11N4A or
EVB3S11NCA or
EVB3S11N4FB

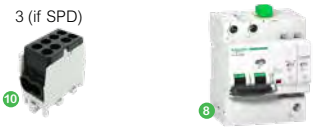
Switchboard

Mureva

EVlink Pro AC
EVB3S07N4A or
EVB3S07NCA or
EVB3S07N4EA or
EVB3S07N4AM or
EVB3S07NCAM or
EVB3S07N4EAM

Switchboard

Mureva



EVlink Pro AC
EVB3S22N41 or
EVB3S22N4E1

Switchboard

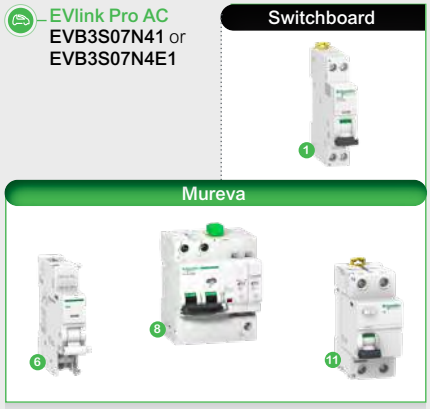
Mureva

1. MCB 1P+N 40 A
2. MCB 2P 80 A
3. MCB 3P+N 20 A
4. MCB 3P+N 40 A
5. MCB 4P 80 A
6. MNx
7. RCBO
8. SPD 1P+N
9. SPD 3P+N
10. Terminal connector 25 mm²
11. Type Asi RCD monophasé
12. Type Asi RCD triphasé
13. Type B RCD triphasé

EVlink™ Pro AC Metal

One-Cable, One-Charger

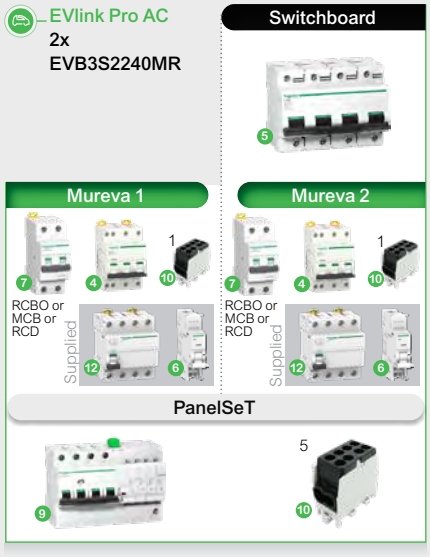
EVlink Pro AC
EVB3S07N41 or
EVB3S07N4E1



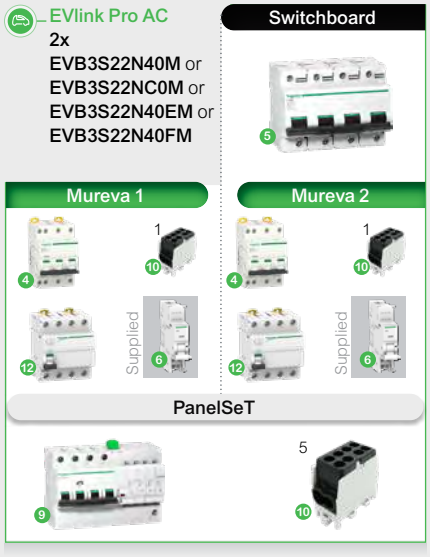
1. MCB 1P+N 40 A
2. MCB 2P 80 A
3. MCB 3P+N 20 A
4. MCB 3P+N 40 A
5. MCB 4P 80 A
6. MNx
7. RCBO
8. SPD 1P+N
9. SPD 3P+N
10. Terminal connector 25 mm²
11. Type Asi RCD monophasé
12. Type Asi RCD triphasé
13. Type B RCD triphasé

One-Cable, Two-Chargers

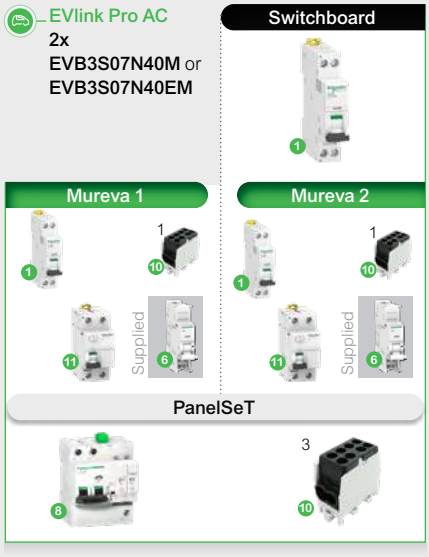
EVlink Pro AC
2x
EVB3S2240MR



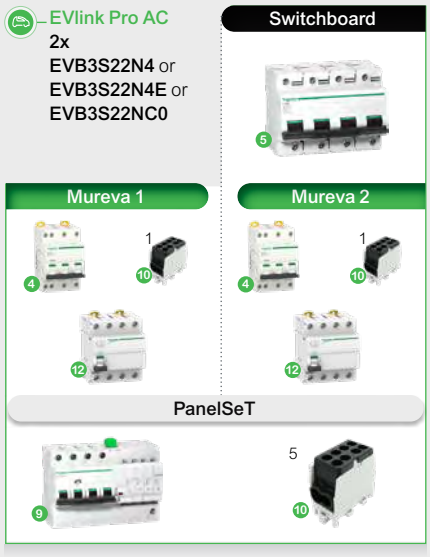
EVlink Pro AC
2x
EVB3S22N40M or
EVB3S22NC0M or
EVB3S22N40EM or
EVB3S22N40FM



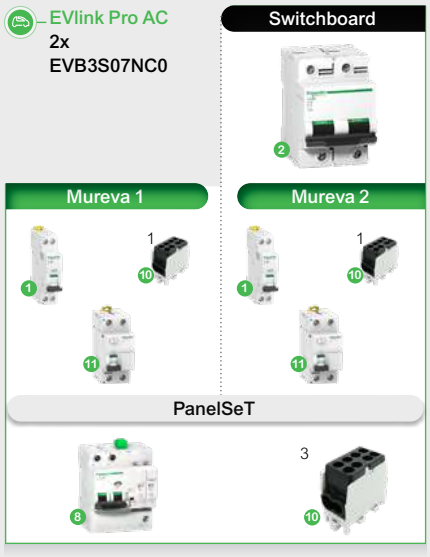
EVlink Pro AC
2x
EVB3S07N40M or
EVB3S07N40EM



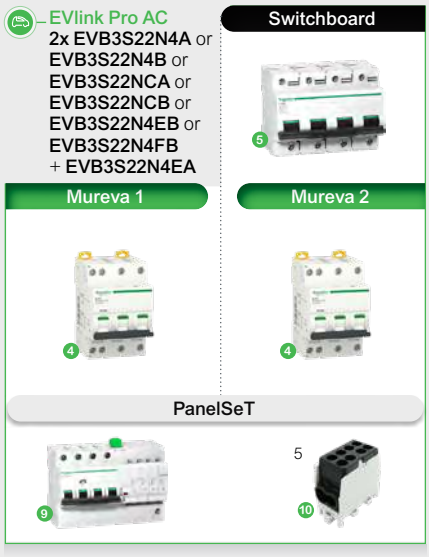
EVlink Pro AC
2x
EVB3S22N4 or
EVB3S22N4E or
EVB3S22NC0



EVlink Pro AC
2x
EVB3S07NC0



EVlink Pro AC
2x EVB3S22N4A or
EVB3S22N4B or
EVB3S22NCA or
EVB3S22NCB or
EVB3S22N4EB or
EVB3S22N4FB
+ **EVB3S22N4EA**

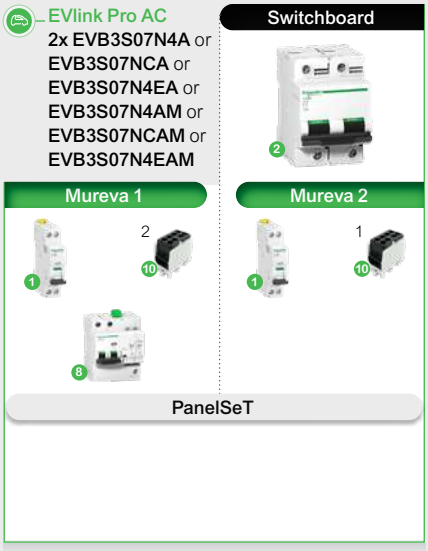


EVlink™ Pro AC Metal

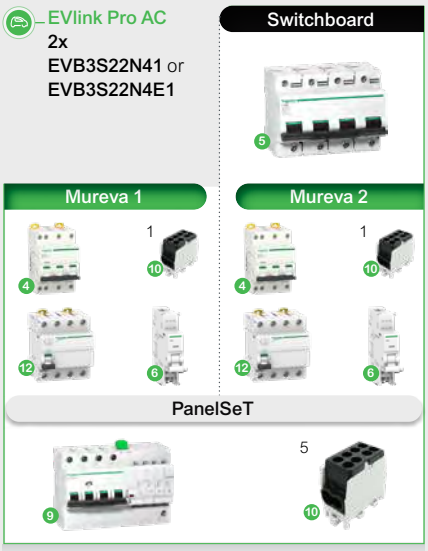
One-Cable, Two-Chargers

EVlink Pro AC
2x
EVB3S11N4A or
EVB3S11NCA or
EVB3S11N4FB

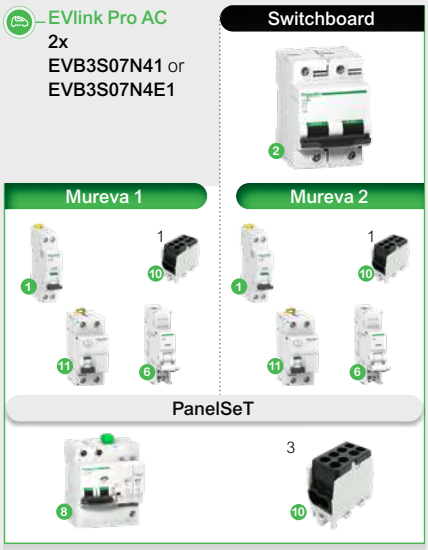
EVlink Pro AC
2x EVB3S07N4A or
EVB3S07NCA or
EVB3S07N4EA or
EVB3S07N4AM or
EVB3S07NCAM or
EVB3S07N4EAM



EVlink Pro AC
2x
EVB3S22N41 or
EVB3S22N4E1



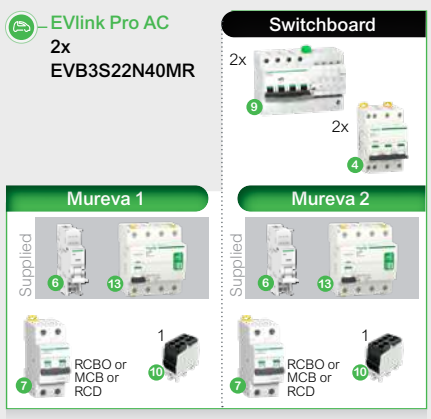
EVlink Pro AC
2x
EVB3S07N41 or
EVB3S07N4E1



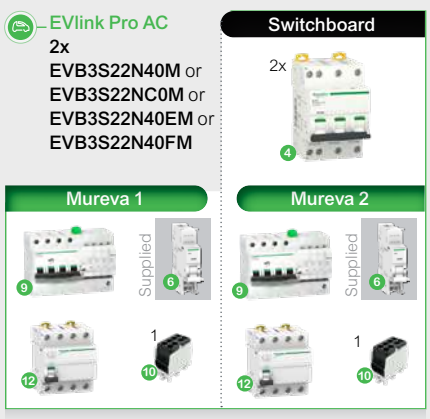
1. MCB 1P+N 40 A
2. MCB 2P 80 A
3. MCB 3P+N 20 A
4. MCB 3P+N 40 A
5. MCB 4P 80 A
6. MNx
7. RCBO
8. SPD 1P+N
9. SPD 3P+N
10. Terminal connector 25 mm²
11. Type Asi RCD monophasé
12. Type Asi RCD triphasé
13. Type B RCD triphasé

Dual cable entrance, Two-Chargers

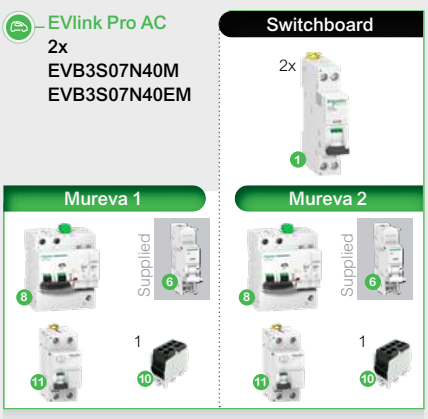
EVlink Pro AC
2x
EVB3S22N40MR



EVlink Pro AC
2x
EVB3S22N40M or
EVB3S22NC0M or
EVB3S22N40EM or
EVB3S22N40FM



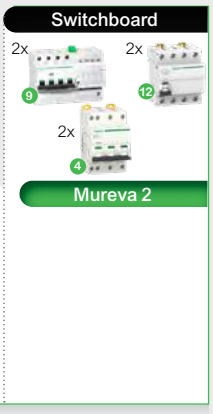
EVlink Pro AC
2x
EVB3S07N40M
EVB3S07N40EM



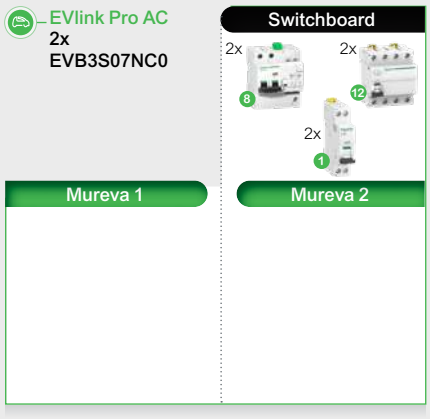
EVlink™ Pro AC Metal

Dual cable entrance, Two-Chargers

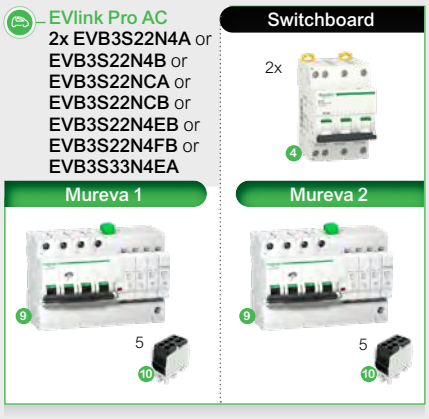
EVlink Pro AC
2x
EVB3S22N4 or
EVB3S22N4E or
EVB3S22NC0



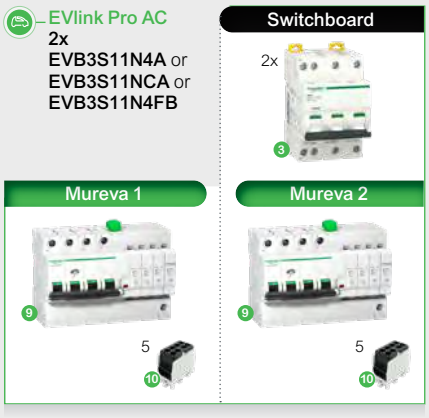
EVlink Pro AC
2x
EVB3S07NC0



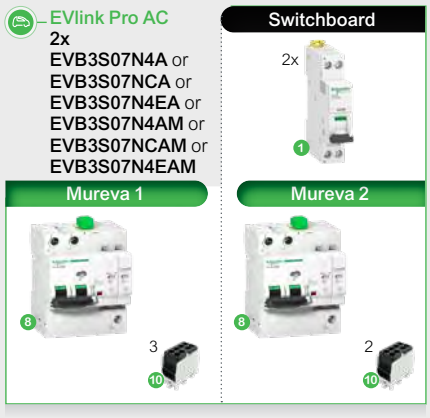
EVlink Pro AC
2x EVB3S22N4A or
EVB3S22N4B or
EVB3S22NCA or
EVB3S22NCB or
EVB3S22N4EB or
EVB3S22N4FB or
EVB3S33N4EA



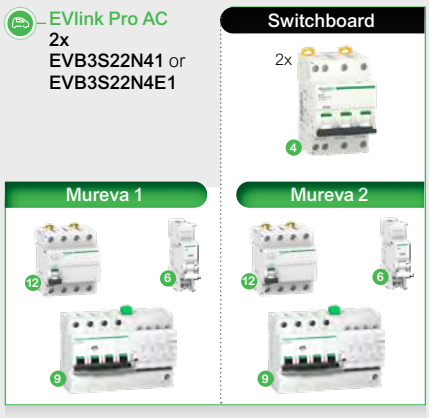
EVlink Pro AC
2x
EVB3S11N4A or
EVB3S11NCA or
EVB3S11N4FB



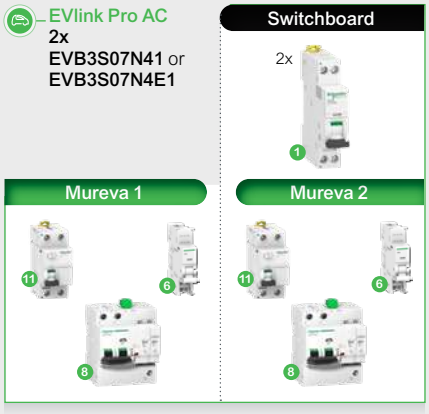
EVlink Pro AC
2x
EVB3S07N4A or
EVB3S07NCA or
EVB3S07N4EA or
EVB3S07N4AM or
EVB3S07NCAM or
EVB3S07N4EAM



EVlink Pro AC
2x
EVB3S22N41 or
EVB3S22N4E1



EVlink Pro AC
2x
EVB3S07N41 or
EVB3S07N4E1



1. MCB 1P+N 40 A
2. MCB 2P 80 A
3. MCB 3P+N 20 A
4. MCB 3P+N 40 A
5. MCB 4P 80 A
6. MNx
7. RCBO
8. SPD 1P+N
9. SPD 3P+N
10. Terminal connector 25 mm²
11. Type Asi RCD monophasé
12. Type Asi RCD triphasé
13. Type B RCD triphasé

Technical documentation

Please refer to bibliography in Appendix

Customization

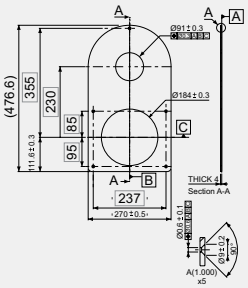
The EVlink Pro AC customization can be executed through local partners with the help of the product drawings below.

EVlink Pro AC

- The front plate can be customized.
- The material is PC BAYLOY 10 UV white 3.

EVlink Pro AC Metal

- The metallic enclosure can be customized.
- The material is electrogalvanized steel.



Schneider Electric provides the 2D plan with dimensions to produce the customized sticker se.com/EVlink.

EVlink™ Pro AC

EVlink Pro AC solutions

EVlink Pro AC to measure the consumption of the EV only

A specific commercial reference is available with power and control supply separated and embedded MID meter.

EVB3S22N40MR

Commercial reference	EVB3S22N40MR
Type of socket	T2S
Current output	32 A
Power kW	22
Number of phases	3 PH
Protection supplied	RCD B EV+MNx
MID inside	Yes

EVlink Pro Pay payment kiosk

EVlink Pro Pay offers an ad-hoc payment kiosk that can manage up to 15 charging points, is compliant with AFIR regulation and is fully integrated with EcoStruxure EV Advisor.

EVPROPAY

Environmental Data Program

RoHS compliant
Reach compliant

Payment	Contactless payment, PIN entry Digital receipt via QRcode VISA, Vpay, Mastercard, Maestro, Apple/Google Pay
Installation	Wall mounted or floor standing Robust (Pro Metal kit)
Mechanical and environmental characteristics	IP 55 IK 9
Power Supply	230V, 50hz
Certifications	CE, UK Standards - IEC62368-1 Payment terminal - PCI PTS 6.X

Contact your local sales representative for more details on the payment kiosk solution. Please note that additional actions with payment service provider and payment terminal manufacturer are required to process payment transactions. Check with your CSMS provider that they support Payter Apollo terminals in kiosk mode.

Range accessories and spare parts

Accessories references

EVlink Pro AC and Pro AC Metal

4G Kits

4G embedded modem dedicated for architecture up to 10 EVlink Pro AC
- Cost-efficient solution for remote monitoring applications
- 1 device to manage wireless communication of up to 10 charging stations
- Compact and directly integrated inside the charging station.

Embedded 4G modem with 2 internal antennas for EVlink Pro AC.
Reference: **EVA1MS**

Embedded 4G modem with an external antenna for EVlink Pro AC Metal
Reference: **EVA1MM**

External modem for architecture with more than 10 EVlink Pro AC and/or EcoStruxure EV Charging Expert Manage wireless communication of large infrastructure and installation requiring load management.

External modem with antenna
Modem reference: **EVP3MM**
Antenna reference: **EVP2MX**

Pack of 10 RFID badges

For charging stations equipped with an RFID reader. The badges are supplied blank, ready to be programmed to identify an administrator or user. Sheet of adhesive labels for badges: 1 administrator + 9 users.
Reference: **EVP1BNS**

TIC interface

Energy management: Smart meter connection to Historical and Standard TIC Tele Information Client card EVlink interface with French utility meters.
Reference: **EVA1MTH**

EVlink Cable

To connect the car to the charging station. Available in different lengths with a T2 connector.

Please refer to page 46

EVlink Pro AC

Pedestal mounting pole

Floor standing:
- for 1 EVlink Pro AC,
  Reference: **EVA1PBS1**
  H 1300 x W 285 x D 229 mm
- for 2 EVlink Pro AC,
  Reference: **EVA1PBS2**
  H 1300 x W 285 x D 384 mm
- Plate to convert the pedestal for 1 charger to a pedestal for 2 chargers.
  Reference: **EVA1PCS2**

Permanent cable locker

To keep the cable attached permanently to the charging station.
Reference: **EVA1PLS1**

Accessories references

EVlink Pro AC Metal Kit accessories

Cable holder

Allows the cable to be left connected on the side charging station.
The cable holder is mandatory for charging stations with attached cable.
In case of charging station with socket, it can allow to lock the accessory cable.
Reference: **EVA1FWHS12**

Locking accessory

Polyamid handle lock, mainly for cybersecurity purpose, direct mounting on front plate.
1 cylindrical barrel, 2 keys Nr 610, 1 handle with key lock.
Reference: **NSYCL610CSX**
Quantity:
2 for WM1CP, or 2 for FS1CP, or 4 for FS2CP

Spare part references

EVlink Pro AC front plate	Reference
	**EVP1SS**

EVlink Pro AC front plate with cut-out window	Reference
 Designed with a cut-out window enabling to see the embedded MID meter inside EVlink Pro AC.	**EVP1SM**

EVlink Pro AC and Pro AC Metal - Socket outlets		References
	1PH socket outlet T2S	**EVP1SSS41**
	3PH socket outlet T2S	**EVP1SSS43**
	1PH socket outlet T2S - Domestic TE	**EVP1SSS51**
	3PH socket outlet T2S - Domestic TE	**EVP1SSS53**
	3PH socket outlet T2S - Domestic TF	**EVP1SSS63**

EVlink Pro AC and Pro AC Metal - Attached cables		References
T2 charging connector		
	T2 attached cable 1PH 32 A 5 m length	**EVP1CSS321C**
	T2 attached cable 3PH 32A 5m length	**EVP1CSS323C**

Technical documentation

Please refer to bibliography in Appendix

Cables for EVlink™ for AC charging stations

Characteristics

Type 2 (T2)

- Tested and certified product: Third-party laboratory CB certification (LCIE) complies with the applicable standard IEC 62196
- Fast charging (Mode 3)
- High-strength cable

Characteristics

- Length: available in 5, 7 and 10 m
- Max. current: 32 A
- Operating temperature: -30°C to +50°C
- Degree of protection: IP44.

Two good reasons to have a second EVlink cable in your electric vehicle

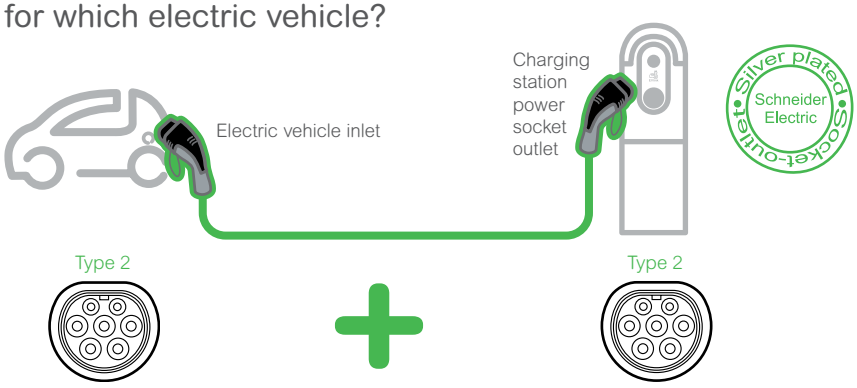
1. To take advantage of the charging capacity of public charging stations: by having an appropriate EVlink cable for the charging stations used, you obtain fast charging with integrated protection(1).

2. To have a fallback solution.

E.g. charging cable damaged or misplaced, or to help out another electric vehicle user.

Which EVlink cable

for which electric vehicle?



References	No. of phases		Charging power accepted (kW)				Cable length
	1	3	3.7	7.4	11	22	(m)
EVP1CNS32122	●		●	●			5
EVP1CNL32122	●		●	●			7
EVP1CNX32122	●		●	●			10
EVP1CNS32322		●	●	●	●	●	5
EVP1CNL32322		●	●	●	●	●	7
EVP1CNX32322		●	●	●	●	●	10

T2 + T2

(1) Learn more on the Wiki guide for Electric Vehicle charging


EVlink
A
B
B

EVlink™ Pro DC

Electric vehicle charging stations

EVlink™ Pro DC 60

In short

EVD1S60TBB
with pedestal EVP1DB3LG

Environmental Data Program

RoHS compliant
Reach compliant

Standards

EV international standard: EN 61851-1 Ed. 3 IEC/EN 61851-23 – Ed. 1
EV connector international standard: IEC/EN IEC62196-1 & IEC62196-3
Immunity for industrial environment: EN 61000-6-2
Emission for industrial environment: EN 61000-6-4
EMC for industrial environment: Class A.
Radio certification
RFID/NFC: EN 300 330 V2.1.1
4G: EN 301 908 -13 V13.1.1
Wi-Fi: EN 300 328 V2.2.2 - EN 301 893
EMC radio Equipment EN 301 489-1 V2.2.0
RFID/NFC: EMC EN 301 489-3 V2.1.1
4G: EMC EN 301 489-52 V1.1.0
Wi-Fi: EMC EN 301 489-17 V2.1.1

Charging station offer

EVlink Pro DC DC 60 is a compact charger able to be install on a wall or pedestal. It exits in various combinations.

- 2 connectors, CCS Combo 2 + CCS Combo 2
- 2 connectors, CHAdeMO + CCS Combo 2

DC 60 kW with 2 vehicle connectors is cable to charge one vehicle up to 60 kW or simultaneously two vehicles at 30 kW each.

Easy to install

- Indoor or outdoor
- Wall mounted or floor mounted with additional pedestal
- Installation in less than 2 hours (when supply cable is already installed)

Mechanical and environment features

- Degree of protection: IP55
- Degree of mechanical protection: IK10 – IK08 for the screen
- Operating temperature: -30°C / +55°C (with derating above 50°C)
- Storage temperature: -40°C to 70°C
- Operating altitude: 2000 m max.
- Relative humidity: 5% to 95%
- Housing corrosion protection C3M
- Charge interrupt button
- Accessible to disable people

Access control modes

- Free Access
- User authentication through:
  - RFID or NFC badge
    - NFC 13,56 MHz reader compatible with type 1, 2, 4 and 5 badges
    - RFID reader:
      - conforming to ISO/CEI 14443 A & B and ISO/CEI 15693 protocols
      - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus
  - Auto-charge (EV MAC address)
  - QR code for CPO application

Services

- Worldwide Customer Care Centre
- Additional 1- or 3-years Warranty Extension
- Onsite commissioning support
- Services Plan
- Schneider Electric manufactured Spare parts
- Advanced training
- Worldwide network of Schneider Electric services representatives providing on-site installation, commissioning and maintenance services

Application

EVlink Pro DC 60 charging stations are recommended for office buildings and light fleet depot applications.

Watch the video

Characteristics

EVD1S60THB

EVD1S60TBBC7

Power supply network and charging mode

- Power supply: 380 - 400 V - 415 Vac +/- 10% 50/60 Hz
- Poles description: L1+L2+L3+N+PE

Direct current charging (all charging stations)

- Charging in Mode 4 (IEC 61851-23)
- Charging power: CCS Combo 2 and CHAdeMO - 60 kW
- Charging voltage/current:
  - CCS Combo 2 - 150 to 1 000 VDC / 200 A Max
  - CHAdeMO (version 2.0) 150 to 500 VDC / 125 A Max
- Standby power: 50 W
- Protection against overheating, temperature regulated
- Cable range: 3.5 m with cable management; 7 m without cable management
- Efficiency 94.5% at nominal output power
- Power Factor ≥ 0.99 at nominal output power
- THDi ≤ 5% at nominal output power
- Acoustic noise: Variable under load: 0 dB - 65 dB at 1 m in front of the charger

Embedded protection and metering

- MCB
- RCD
- SPD
- Metering: DC Meter class 1 (1% accuracy at full scale)

Diagram of the earthing system

- TT, TN-S, TN-C-S
- IT (Compatible IT with additional isolating transformer)

Versatile connection to a supervision

- Ethernet
- Wireless 4G modem
- Wi-Fi
- OCPP 1.6Json Smart Charging interface with OCA certification
- ISO15118 / DIN 70121
- LAN/TCP IP protocol

User interfaces

- 7-inch touch screen (multi-language support: English, French, German, Norwegian, Spanish, Italian, Danish, Vietnamese, Ukrainian...) Additional languages to be confirmed with your local Schneider Electric sales representative
- Multi-color LED for status indication for each vehicle connector

Sensors

- Humidity sensor
- Door sensor
- Tilt sensor

EVlink Pro DC 60 Assemblies	Dimensions in mm (HxWxD)	Dimensions in inches (HxWxD)
Charging station with Cable management	1204 x 1303 x 339	47.4 x 51.3 x 13.3
Charging station without Cable management	1037 x 802 x 339	40.8 x 31.6 x 13.3
Charging station with Cable management – 740 mm pedestal	1694 x 1303 x 551	66.7 x 51.3 x 21.7
Charging station without Cable management – 740 mm pedestal	1527 x 802 x 551	60.1 x 31.6 x 21.7
Charging station with Cable management – 1 m pedestal	1954 x 1303 x 551	76.9 x 51.3 x 21.7
Charging station without Cable management – 1 m pedestal	1787 x 802 x 551	70.4 x 31.6 x 21.7

EVlink™ Pro DC 60

Charging station references

EVlink Pro DC 60							
Power	Connector(s)	References	Weight without power module	Weight with power module	Cable range	Cable management	Frequency
60 kW	CCS2 + CCS2	EVD1S60TBB	131 kg / 288.2 lb.	161 kg/ 354.2 lb.	3.5 m	Yes	50 Hz
60 kW	CCS2 + CHAdeMO	EVD1S60THB	131 kg / 288.2 lb.	161 kg/ 354.2 lb.	3.5 m	Yes	50 Hz
60 kW	CCS2 + CCS2	EVD1S60TBBC5	100 kg / 220 lb.	130 kg/ 286 lb.	5 m	No	50 Hz
60 kW	CCS2 + CHAdeMO	EVD1S60THBC5	100 kg / 220 lb.	130 kg/ 286 lb.	5 m	No	50 Hz
60 kW	CCS2 + CCS2	EVD1S60TBBC7	108 kg / 237 lb.	138 kg/ 304 lb.	7 m	No	50 Hz
60 kW	CCS2 + CCS2	EVD1S60TBB-SA	131 kg/288.2 lb.	161 kg/ 354.2 lb.	3.5 m	Yes	60 Hz

Current information and protections

Current information and protections to use with EVlink Pro DC 60		
Current		
Power		**60 kW**
	Rated current	**97 A**
	Max. current	**107 A**
Electrical protection		
	Circuit Breaker (Overcurrent) Schneider ElectricTM reference*	**3P+N or 4P** **Acti9 C120 4P 125 A, curve C + Acti9 vigi C120 4P 30mA type A-SI (Optional RCD Protection)**

*To check availability, please contact Schneider Electric front offices.

Accessories

EVA1D60S01

EVP1DB4LG
EVP1DB6LG

EVP1DB3LG
EVP1DB5LG

How to install an EVlink Pro DC 60 charging station on a wall

Watch the video

How to Install a floor-standing EVlink Pro DC 60 charging station

Watch the video

EVlink Pro DC 60					
References	Description	Height	Width	Depth	Weight
EVP1BNS	10 RFID badges				
EVP1DB3LG	Pedestal to use with EVD1S60TBB or EVD1S60TBBC5 or EVD1S60TBBC7	740 mm	341 mm *13.4 in*	454 mm *17.9 in*	11 kg *24.2 lb*
EVP1DB4LG	Pedestal to use with EVD1S60TBB or EVD1S60TBBC5 or EVD1S60TBBC7	1000 mm	341 mm *13.4 in*	454 mm *17.9 in*	13 kg *28.6 lb*
EVP1DB5LG	Pedestal to use with EVD1S60THB or EVD1S60THBC5	740 mm	341 mm *13.4 in*	454 mm *17.9 in*	11 kg *24.2 lb*
EVP1DB6LG	Pedestal to use with EVD1S60THB or EVD1S60THBC5	1000 mm	341 mm *13.4 in*	454 mm *17.9 in*	13 kg *28.6 lb*
EVA1D60S01	Cable management accessory for EVD1S60TBBC5 or EVD1S60THBC5				

Technical documentation Please refer to bibliography in Appendix


Schneider Electric
DC Meter A
DC Meter B
CCS2 - A
CCS2 - B
EVlink

EVlink™ Pro DC 120-150-180 kW

In short

Charging station offer

EVlink DC Pro DC 120 – 150 - 180 kW charging stations are able to charge an electric vehicle in less than 30 minutes.
The range covers a large variety of needs with a choice of either, per station:

- Option for payment terminal
- Option for range of output cable
- Option for Eichrecht certification

Pro DC 120 – 150 – 180 kW with 2 vehicle connectors is capable to charge one vehicle at full power or simultaneously two vehicles with dynamic power allocation. For instance, to charge one vehicle at 120 kW while charging another one at 60 kW at the same time.

Easy to install

- Indoor or outdoor
- Floor mounted
- Installation in less than 2 hours (when supply cable is already installed)

Mechanical and environment features

- Degree of protection: IP55
- Degree of mechanical protection: IK10 – IK08 for the screen
- Operating temperature: -30°C / +55°C (with derating above 50°C)
- Storage temperature: -40°C to 70°C
- Operating altitude: 2000 m max.
- Relative humidity: 5% to 95%
- Housing corrosion protection C4M
- Charge interrupt button
- Accessible to disable people

Access control modes

- Free Access
- User authentication through:
  - RFID or NFC badge
    - NFC 13,56 MHz reader compatible with type 1, 2, 4 and 5 badges
    - RFID reader:
      - conforming to ISO/CEI 14443 A & B and ISO/CEI 15693 protocols
      - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus
  - Auto-charge (EV MAC address)
  - QR code for CPO application
  - Embedded payment terminal

Services

- Worldwide Customer Care Centre
- Additional 1- or 3-years Warranty Extension
- Onsite commissioning support
- Services Plan
- Schneider Electric manufactured Spare parts
- Advanced training
- Worldwide network of Schneider Electric services representatives providing on-site installation, commissioning and maintenance services

Environmental Data Program

CE

RoHS compliant
Reach compliant

Standards

EV international standard: EN 61851-1 Ed. 3 IEC/EN 61851-23 – Ed. 1
EV connector international standard: IEC/EN IEC62196-1 & IEC62196-3
Immunity for industrial environment: EN 61000-6-2
Emission for industrial environment: EN 61000-6-4
EMC for industrial environment: Class A.
Radio certification
RFID/NFC: EN 300 330 V2.1.1
4G: EN 301 908 -13 V13.1.1
Wi-Fi: EN 300 328 V2.2.2 - EN 301 893
EMC radio Equipment
EN 301 489-1 V2.2.0
RFID/NFC: EMC EN 301 489-3 V2.1.1
4G: EMC EN 301 489-52 V1.1.0
Wi-Fi: EMC EN 301 489-17 V2.1.1

Application

EVlink Pro DC 120 – 150 – 180 kW charging stations are recommended for vehicle depot and traffic application.

Watch the video

Characteristics

EVD1S120TBB
EVD1S150TBB
EVD1S180TBB

EVD1S120TBBCC
EVD1S150TBBCC
EVD1S180TBBCC
EVD1S120TBBCC-G
EVD1S150TBBCC-G
EVD1S180TBBCC-G

EVD1S120TBBC7
EVD1S150TBBC7
EVD1S180TBBC7
EVD1S120TBBC7-G
EVD1S150TBBC7-G
EVD1S180TBBC7-G

Power supply network and charging mode

- Power supply: 380 - 400 V - 415 Vac +/- 10% 50/60 Hz
- Poles description: L1+L2+L3+N+PE

Direct current charging (all charging stations)

- Charging in Mode 4 (IEC 61851-23)
- Charging power:
  - CCS Combo 2 - 120 – 150 – 180 kW
  - CHAdeMO - 60 kW
- Charging voltage/current:
  - CCS Combo 2 - 150 to 1 000 VDC / 300 A Max
- Standby power: 90 W
- Protection against overheating, temperature regulated
- Cable range: 3.6 m with cable management, 7.5 m without cable management
- Efficiency 94.5% at nominal output power
- Power Factor ≥ 0.99 at nominal output power
- THDi ≤ 5% at nominal output power
- Acoustic noise: Variable under load: 0 dB - 65 dB at 1 m in front of the charger

Embedded protection and metering

- MCB
- RCD
- SPD
- Metering: DC Meter class 1 (1% accuracy at full scale) – Compliant with French DC meter regulation
- Eichrecht compliant

Diagram of the earthing system

- TT, TN-S, TN-C-S
- IT (Compatible IT with additional isolating transformer)

Versatile connection to a supervision

- Ethernet
- Wireless 4G modem
- Wi-Fi
- OCPP 1.6Json Smart Charging interface with OCA certification
- ISO15118 / DIN 70121
- LAN/TCP IP protocol

User interfaces

- 10-inch touch screen (multi-language support: English, French, German, Norwegian, Spanish, Italian, Danish, Vietnamese, Ukrainian...) Additional languages to be confirmed with your local Schneider Electric sales representative
- Multi-color LED for status indication for each vehicle connector

Sensors

- Humidity sensor
- Door sensor
- Water ingress sensor
- Tilt sensor

Dimensions (cabinet with Cable management)

- H 2202 x W 1050 x D 982 mm ; H 86.69 x W 41.34 x D 38.67 In.

Dimensions (cabinet without Cable management)

- H 2103 x W 833 x D 963 mm ; H 83,86 x W 32.80 x D 37,92 In.

EVlink™ Pro DC 120-150-180 kW

Charging station references

EVlink Pro DC 120-150-180 W								
Power	Connector(s)	References(1)	Weight without power module	Weight with power module	Cable range	Cable management	Payment terminal	Eichrecht
120 kW DC	CCS Combo 2 + CCS Combo 2	EVD1S120TBB	~470 kg / 1037 lb	~530 kg / 1168 lb	3.6m	Yes	No	No
		EVD1S120TBBC7	~451 kg / 995 lb	~511 kg / 1127 lb	7.5m	No	No	No
		EVD1S120TBBCC	~470 kg / 1037 lb	~530 kg / 1168 lb	3.6m	Yes	Yes	No
		EVD1S120TBBCC-G	~470 kg / 1037 lb	~530 kg / 1168 lb	3.6m	Yes	Yes	Yes
		EVD1S120TBBC7-G	~451 kg / 995 lb	~511 kg / 1127 lb	3.6m	No	No	Yes
150 kW DC	CCS Combo 2 + CCS Combo 2	EVD1S150TBB	~470 kg / 1037 lb	~545 kg / 1201 lb	3.6m	Yes	No	No
		EVD1S150TBBC7	~451 kg / 995 lb	~526 kg / 1160 lb	7.5m	No	No	No
		EVD1S150TBBCC	~470 kg / 1037 lb	~545 kg / 1201 lb	3.6m	Yes	Yes	No
		EVD1S150TBBCC-G	~470 kg / 1037 lb	~545 kg / 1201 lb	3.6m	Yes	Yes	Yes
		EVD1S150TBBC7-G	~451 kg / 995 lb	~526 kg / 1160 lb	7.5m	No	No	Yes
180 kW DC	CCS Combo 2 + CCS Combo 2	EVD1S180TBB	~470 kg / 1037 lb	~560 kg / 1235 lb	3.6m	Yes	No	No
		EVD1S180TBBC7	~451 kg / 995 lb	~541 kg / 1193 lb	7.5m	No	No	No
		EVD1S180TBBCC	~470 kg / 1037 lb	~560 kg / 1235 lb	3.6m	Yes	Yes	No
		EVD1S180TBBCC-G	~470 kg / 1037 lb	~560 kg / 1235 lb	3.6m	Yes	Yes	Yes
		EVD1S180TBBC7-G	~451 kg / 995 lb	~541 kg / 1193 lb	7.5m	No	No	Yes

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

Current information and protections

Current information and protections to use with EVlink Pro DC 120 - 150 - 180 kW				
Current				
Power		**120 kW**	**150 kW**	**180 kW**
	Rated current	**193 A**	**242 A**	**291 A**
	Max. current	**214 A**	**268 A**	**323 A**
Electrical protection				
	Circuit breaker (overcurrent)	**3P+N or 4P**	**3P+N or 4P**	**3P+N or 4P**
	References	**C25F4TM250* or C25F44V2501***	**C40F42D400**	**C40F42D400**
	Optional RCD protection (VigiPact)	**-**	**LV432465**	**LV432465**

*Optional RCD protection included.
Note: if there is plan to upgrade later (from 120 to 150 kW or 150 to 180kW...) already consider the protection sizings for DC 180kW.

Technical documentation

Please refer to bibliography in Appendix


Life Is On Schneider Electric
Charging stations
Slaves
Badges
Admin
EcoStruxure ™ EV Cha
GLOBAL
Zones and outlets
ZONES
All zones
1st Floor
1st Floor - North
1st Floor - South
2nd Floor
3rd Floor (VIP)
POWER OUTLETS
All power outlets
PowerMeter1
EXPORT TRANSACTIONS
INFORMATION
DASHBOARD
Station fleet
Stations 23
Charge points 39
available 32
charging 3
suspended by EV 1
suspended by system 1
faulted 2
not connected 0
unavailable 0
CHARGES
0
Cluster powe
Charges
Optimal
Reduced
Suspended
charging stations
local production
STATIONS
Name
Zone
Connecto
Station 17
2nd Floor - North-East
1
2
Station 18
2nd Floor - North-East
1
2
Station 19
2nd Floor - North-East
1
2
Station 20
2nd Floor - North-East
1
Station 21
2nd Floor - North-East
1
Station 22
2nd Floor - North-East
1
2
Station 23
2nd Floor - North-West
1
2
Station 24
2nd Floor - North-West
1
2
Station 25
2nd Floor - North-West
1
2
Station 26
2nd Floor - North-West
1

Energy management, software and digital services

Energy management

How to optimize the impact of the charging solution's consumption on an electrical installation ?

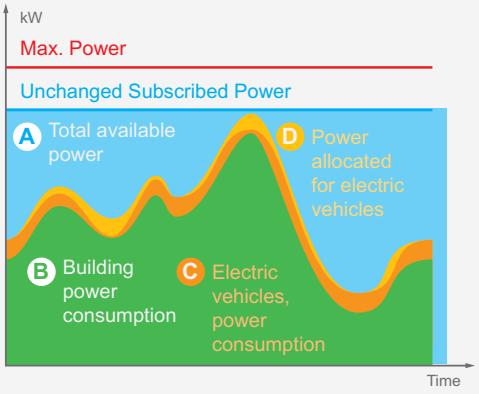
The installation of charging stations in an existing electrical network can have a significant impact due to the power level required by electric vehicles to charge. Increasing the power subscribed to the energy supplier increases the cost but the trigger threshold can still be exceeded with potential discontinuity of service for all the activities.

EcoStruxure EV Charging Expert allows EV loads to be monitored, controlled and maximized based on the real-time available power in the building.

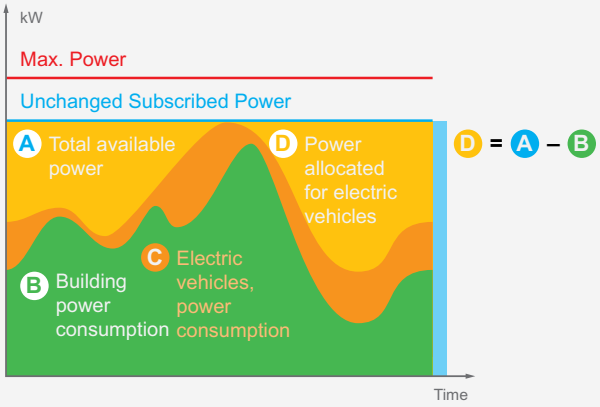
It helps to ensure the respect of cost and energy efficiency constraints of a set of charging stations by controlling their operation. The controller runs its energy management program according to the selected parameters and data received from the charging stations.

Watch the video

Static and dynamic energy management principles



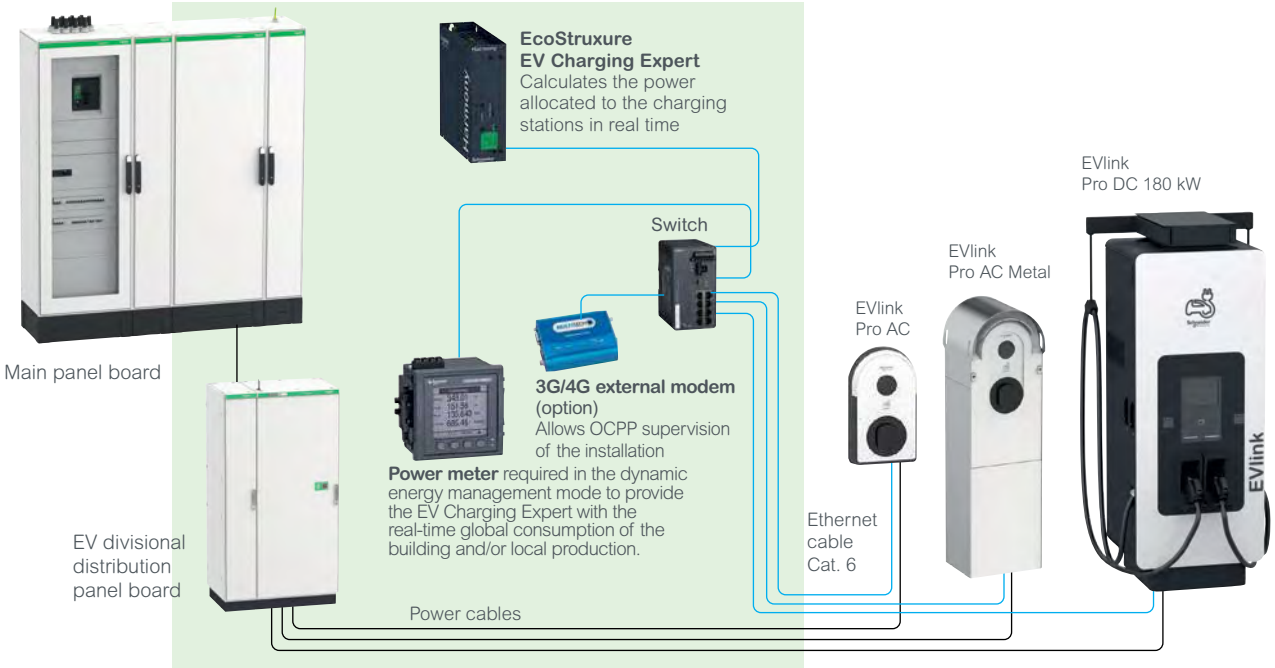
Static energy management: D is determined based on the available power at the most unfavorable time and is constant over time.



Dynamic energy management: setpoint "D" is adjusted in real time according to the consumption of the rest of loads in the building, to maximize the power allocated to charging electric vehicles.

Electrical installation with energy management

From 1 to 100 charging stations depending on selected EV Charging Expert model.

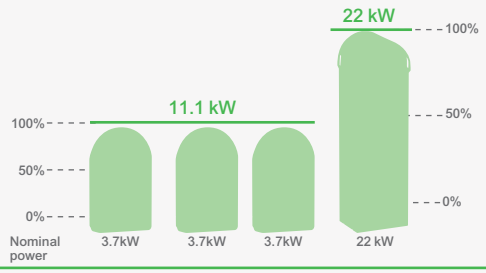
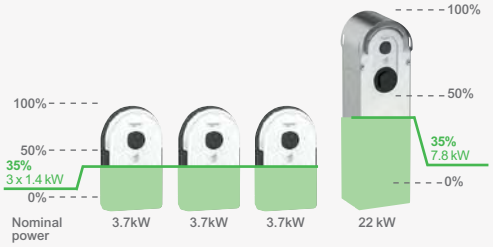
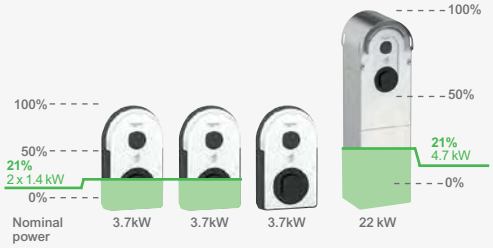


Discover more installation guidelines for EcoStruxure EV Charging Expert

Operation

- EcoStruxure EV Charging Expert controls the EV charging infrastructure
- It allows the instantaneous power drawn by the entire set of connected electric vehicles to be limited, and manages the energy allocated to each one of them in order to simultaneously supply as many EVs as possible.
- In real time, it transmits a setpoint to each charging station, which is transferred to the vehicles
- If the max current allowed in a zone is reached, a decrease in energy is applied in the same way to all charge points (51% in the example with 17 kW of available power)
- Output is only reduced on the electrical phases that need it.

Descriptive example to illustrate the load reduction and load-shedding operation

Available power in the building allocated to EV charging	Delivered charging power	Description
33.1 kW		The full available energy is delivered.
12 kW		When reaching the minimum current setpoint of a charge point, its current level will be maintained so that the EV keeps charging. **Details** Min. current for an EV to charge (according to IEC 61851) = 6 A, representing 1.4 kW of a 3.7 kW charging station. 12 - (3 x 1.4 kW) = 7.8 kW, that are provided by the 22 kW charging station.
7.5 kW		If there is not enough power to feed all the charging stations, charge point load shedding will be triggered, following the load-shedding rules. **Details** With 6 A (1.4 kW) per active charging station (IEC 61851 minimum current), the 7.5 kW of charging power are respected by switching off 1 charging station. 7.5 - (2 x 1.4 kW) = 4.7 kW, that are provided by the 22 kW charging station.

Load shedding rules between charging sessions

When the load shedding is triggered (meaning there is not enough power to continue all the charging sessions simultaneously), the algorithm allows the available energy to be distributed according to one of the two strategies:

- Based on the energy already consumed: the system interrupts the charging of the vehicles that have obtained the highest amount of kWh since the start of their charging, favoring recently arrived vehicles.
- Based on the connection time: the system interrupts the charging of the vehicles with the longest charging time, favoring those last arrived.

In both cases, the system rechecks and updates the situation every 15 minutes.

EcoStruxure™ EV Charging Expert

EcoStruxure EV Charging Expert

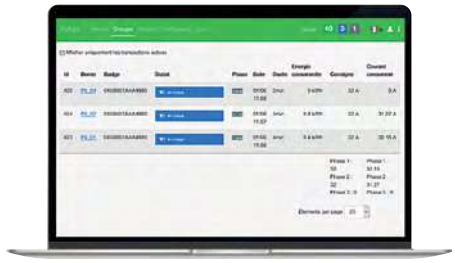
EV Charging Expert has been awarded with the prestigious "Solar impulse Efficient Solution" label.

Find out more here

Environmental Data Program

RoHS compliant
Reach compliant

E.V.READY



Charging history of electric vehicles

Current charging sessions

To download the latest release of EcoStruxure EV Charging Expert software, please scan or click on the following QR code:

EcoStruxure EV Charging Expert allows EV charging to be monitored, controlled and maximized based on the real-time available power in the building.

It helps to ensure the respect of cost and energy efficiency constraints of a set of charging stations by controlling their operation. The controller runs its management program according to the selected parameters and data received from the charging stations.

Characteristics

- PLC type: Harmony iPC IIoT Edge Box Core
- Operating system: Linux Yocto
- Supply voltage: 12...24 V DC
- Inrush current: 0.43 A
- Consumption: 16 W
- Dimensions: 150 x 46 x 157 mm
- Protection class: IP40
- Standards/Directives:
  - 2014/30/EU (electromagnetic compatibility)
  - 2014/35/EU (Low Voltage Directive)
  - Class A EN 55022 (electromagnetic compatibility, conducted and radiated emissions)
- Connections: 2 x USB 2.0, 1 x HDMI, 2 x Ethernet (10/100/1000 Mb/s), 1 x COM RS-232 (default), RS-232/422/485 (non-isolated), 1 ground connection, 1 x GPIO, 1 power supply connector 24 V DC

Connection to the charging stations

- Directly to the Ethernet LAN via a switch

External network connection

- Directly to the Ethernet LAN or remotely via a 3G or 4G modem
- Communication under OCPP 1.6 JSON

Functions

- Calculates the power allocated to the charging stations
- Centralization and availability of data for each station

User interface

EcoStruxure EV Charging Expert provides access to an ergonomic and intuitive user interface (web server) to:

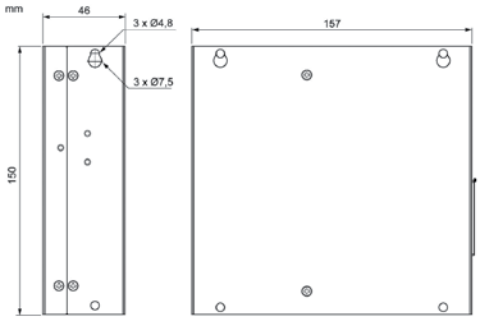
- remote start / stop a charging session
- reset or reboot a charging station
- visualize a dashboard indicating the status of each charging station
- manage badges (local addition, import or export badge list) and user rights
- access and export the history of charging data by station, by badge or aggregated for the infrastructure
- consult and export maintenance data.

Building integration

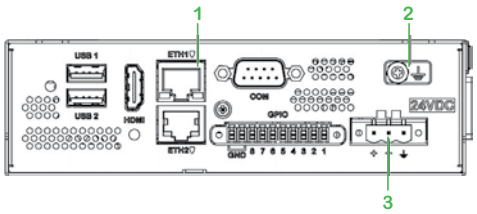
REST API interface of EcoStruxure EV Charging enables monitoring and control of electrical limitations and charging stations from an energy or building management software.

EcoStruxure EV Charging Expert dimensions (mm)

Dimensions



Rear view



1- ETH1 (10/100/1000 Mbits/s)
2- Ground
3- DC supply

CORE references(1) (2)

		EcoStruxure EV Charging Expert with Dynamic and Static modes (dynamic load management with DYNAMIC current setpoint, or STATIC current setpoint)			
References		**HMIBSCEA53D1EDB**	**HMIBSCEA53D1EDS**	**HMIBSCEA53D1EDM**	**HMIBSCEA53D1EDL**
Features					
Capacity	Number of EVlink charging stations	5	15	50	100
Multi zone	Maximum number of zones	20	20	20	20
	Maximum number of zone levels	4	4	4	4

Additional information

Range compatibility:
Schneider Charge Pro
EVlink Pro AC
EVlink Pro DC 60
EVlink Pro DC 120 -180 kW
EVlink Smart Wallbox
EVlink Parking

(1) To upgrade from a current CORE reference to an upper-level one, consult the UPGRADES Software references bellow.
(2) This table applies to EcoStruxure EV Charging Expert version 6.0 and later.

UPGRADES Software references

Upgrade from a CORE offer to an upper-level in case of increased number of charging stations in the infrastructure or load management mode change.

Reference	Description
EVLMSEDB2EDS	Upgrade EV Charging Expert dynamic from 5 to 15 charging stations
EVLMSEDB2EDM	Upgrade EV Charging Expert dynamic from 5 to 50 charging stations
EVLMSEDB2EDL	Upgrade EV Charging Expert dynamic from 5 to 100 charging stations
EVLMSEDS2EDM	Upgrade EV Charging Expert dynamic from 15 to 50 charging stations
EVLMSEDS2EDL	Upgrade EV Charging Expert dynamic from 15 to 100 charging stations
EVLMSEDM2EDL	Upgrade EV Charging Expert dynamic from 50 to 100 charging stations

Technical documentation

Please refer to bibliography in Appendix

Discover more installation guidelines for EcoStruxure EV Charging Expert

EcoStruxure™ EV Charging Expert

Features and benefits

Simplified, decentralized, flexible installation architecture

- Available in different versions from 5 to up to 100 charging stations from one single user interface dashboard
- Manages several parking zones each one with its own power metering for dynamic load management. It is scalable from a current model to a more sophisticated one
- Operates with open protocols (OCPP 1.6Json) facilitating integration with other systems
- Supports energy local production to extend charging capacities

Designed to be easily installed and commissioned by an installer

- Protection and control components to be installed in a Prisma panel or equivalent
- The webserver includes a configuration assistant that walks the installer through the different steps to configure the system
- Automatic scan and configuration of charging stations
- Easy firmware updates, with the most recent firmware release available on se.com.

Multiple functionalities for efficient operation and maintenance

- Local supervision of charging stations and their power management
- Intuitive dashboard interface to manage and control the installation
- Time-of-use electricity tariff scheduling to limit EV charging when the electricity price is high, and to maximize it when it is low
- Visibility on charging with priority capabilities on the charging station (no or limited load-shed)
- User badges management when supervision is not part of system
- Historic data related to the EV charging transactions are registred for analytics, cost allocation or invoicing
- Compatible with a Charging Point Operator backend system (OCPP 1.6J protocol). Basic authentication support.
- Integration capabilities with the Building Management System (may require specific development using webservices)

Functions performed by all commercial references of EV Charging Expert

Access Management	Commissioning	Operation	Connectivity
Add, modify, delete, supervise badges	Commissioning all charging stations directly from EVlink LMS	Supervision through real-time dashboard and remote actions on charging stations	Connection with CPO supervision (OCPP 1.6 Json)
	Save and restore commissioned configuration	Charge data report export	Connection with any building supervision (web services) (1)
		Maintenance report export	Optional: 3G/4G modem
			Commissioning by Ethernet cable

(1) May require specific development

Refer to Appendix for detailed
> Switch details ..... p. 93
> Possible IT network topologies..... p. 92
> Typical load management architectures..... p. 95

EcoStruxure™ EV Advisor

EcoStruxure EV Advisor is an eMobility management platform that enables seamless EV charging for fleets, buildings and destinations.

This SaaS offer is built to supply charge point operators, installers, building operators and fleet operators with everything they need to make their operation a successful venture.

Users benefit from remote supervision and operation functions including features such as asset monitoring and asset control, cloud-based static load leveling, EV driver access management, pricing, EV Driver payment collection, roaming integration and credit card terminal integration.

As an open platform, EcoStruxure EV Advisor will enable businesses who operate EV charging infrastructure implement their individual business case using Schneider or third-party manufacturer's hardware.

This digital solution complements the eMobility portfolio and completes the EcoStruxure for eMobility offer.

To supercharge your growth, our development roadmap is paved with interoperability, software integrations, strategic partnerships, and more.

EcoStruxure EV Advisor: designed to meet your needs

Interoperable

with certified OCPP1.6J charging stations and access to our extensive API library

Convenient

excellent uptime and access to a large range of services

Intuitive

Easy to use with advanced EV data management and analytics capabilities

Cybersecurity

following General Data Protection Regulation and cybesecurity recommendations

Flexible

with white-labeling options and add-ons to adapt to your use case

EV Driver Friendly

with a trusted and intuitive EV driver app

Features and benefits of EcoStruxure EV Advisor

Main dashboards of the cloud-based supervision system

Remote control

Detailed reports

Performance dashboard

EcoStruxure™ EV Advisor

is a white-labelled Charging Station Management System for Charge Point Operators who manage multiple sites for a variety of EV charging applications: at work, at destination or at residential buildings.

Decision makers and operational managers

Built-in features

Integration with other systems

API plug-ins for interoperability

EV drivers: personal or company car

A platform interface
to easily manage your EV infrastructures remotely

Remote Control Centre of the EV infrastructure
- Dashboard with granular view
- OCPP command interface
- Static energy management tool

Management of registered EV drivers
- Monthly bundled billing
- RFID card authorization

Data management
- GDPR supporting tools
- Driver self-service for data management (in-App or browser)

Management of hosts' access to the platform
- White-labelled platform
- Self-service reporting tool
- Host dashboard with data specific to their locations
- And more...

A white-labelled mobile App for EV Drivers,
available on iOS and Google platforms

- Collection of payment from registered EV drivers or guests
- Reservation tool
- Capability to enter coupons for discounted charging at specific stations
- Contact EV Driver support by contact form or by using the displayed contact details
- Ticket management system
- Map applications
- And more...

Via integrations
EcoStruxure EV Advisor allows you to use third party services, such as:

- Roaming
- Dynamic energy pricing
- Payment Terminal: EVlink Pro Pay or other Credit Card systems
- 24/7 EV Driver support
- Ticket management system
- Map applications
- And more...

API plug-ins
enable to connect EcoStruxure EV Advisor to your other management systems, such as:

- Fleet Management System
- Building Management Software
- ERP/HR Systems
- Other EV Driver APP
- Members APP
- Reward program systems
- And more...

EcoStruxure™ EV Advisor

Introducing how EcoStruxure EV Advisor is applied today

EcoStruxure EV Advisor is used by some of the largest regional Charging Point Operators and a wide range of businesses' managers. They all rely on this SaaS solution to offer charging solutions to their employees, customers, tenants, and visitors.

Charging at Work

Provide employees and visitors access to your charging infrastructure to accelerate EV adoption. Consider public access outside business hours for quicker ROI.

Fleet charging

Keep your company cars and commercial fleet charged and always ready to roll. Opt for RFID cards installed in the vehicles or the EV Driver App for assigned drivers per vehicle.

Employee charging

Equip your employees with parking spaces featuring charging stations. Offer special electricity rates or budgets and enable payment via the EV Driver App or integration with your HR system.

Guest charging

Enable your visitors to pre-book a charger or reserve a specific one for valued customers visiting your facilities in advance. After office hours, open to the public and implement a pricing strategy for your daytime visitors.

Charging at Multifamily Homes

Whether the chargers are dedicated to one household or shared, provide a seamless and dependable charging experience for all residents.

Residents charging

Offer residents a seamless and dependable charging experience, allowing them to either make direct monthly payments for all charging events through the app or include the data in other statements provided to them.

Visitors charging

Offering visitor parking space can be a necessity or a strategy to attract top-tier tenants. We can assist them in locating your parking spots, and payments can be conveniently managed through the app or even via credit card terminal.

Car Sharing

If car sharing is included in your residential offerings, we can assist in its seamless operation. By assigning a dedicated RFID to each vehicle, charging costs can be associated with the car rather than individual users. Through the reservation feature in the EV Driver App, EV drivers can pre-book to charge the shared car for its next ride.

Charging at Destinations

Provide an appealing charging solution for both passersby looking for a quick stop and individuals planning to visit your facilities.

- Short-stay charging
- Long-stay charging
- Frequent user charging
- Public charging

Car Park Managers

Businesses providing parking as a service, catering to both paid and free options, and welcoming a mix of regular and ad-hoc users. By offering charging solutions, these companies aim to attract more customers, while also adhering to potential legal guidelines on the provision of chargers.

No matter the type of commercial car park you manage, EcoStruxure EV Advisor equips your business with the operational tools you need.

Retail

Public chargers serve as an inviting feature that encourages guests to visit and stay longer. As customers recharge their electric vehicles, they have more time to explore and make purchases, thereby leaving behind more revenue for the business. It's a strategic way to enhance the customer experience while boosting sales.

With EcoSruxure EV Advisor you can boost customer engagement and sales by inviting patrons to charge up their electric vehicles while they shop.

Hospitality

In the hotel business, closed parking are dedicated to visitors and guests' convenience. With the addition of EV charging stations, the hotel enhances its appeal, providing an attractive amenity for guests with electric vehicles.

Enhance your guests' experience by inviting them to charge up during their stay with our EV Advisor services, offering exclusive access to closed parking spaces and convenient EV charging options..

Airports

Cars are often parked for extended periods, occupying charging stations during their stay, making spaces to be pre-bookable charging facilities.

Maximize customer satisfaction and convenience by inviting travelers to charge up their EVs while they travel with EcoStruxure EV Advisor, offering pre-bookable charging spaces for worry-free journeys.

Restaurants

Public chargers can attract guests to visit, but the host's goal is to accommodate shorter stays (average 30-90 minutes) without encouraging extended periods.

EcoStruxure EV Advisor enhances customer experience and turnover by inviting patrons to charge up while they enjoy your hospitability.


Kl. 2
318 kJ
Bolesta
Schneider
Electric
1000
Kl. 2
318 kJ

eMobility Services

eMobility Services

Services over the entire lifecycle

We support you wherever you are in your eMobility adoption.

Our 4 service values

Service-level agreement

By ordering a service contract, get advantage of an SLA, providing peace of mind by taking a better care for your EV Charging Infrastructure.

Personalized deal

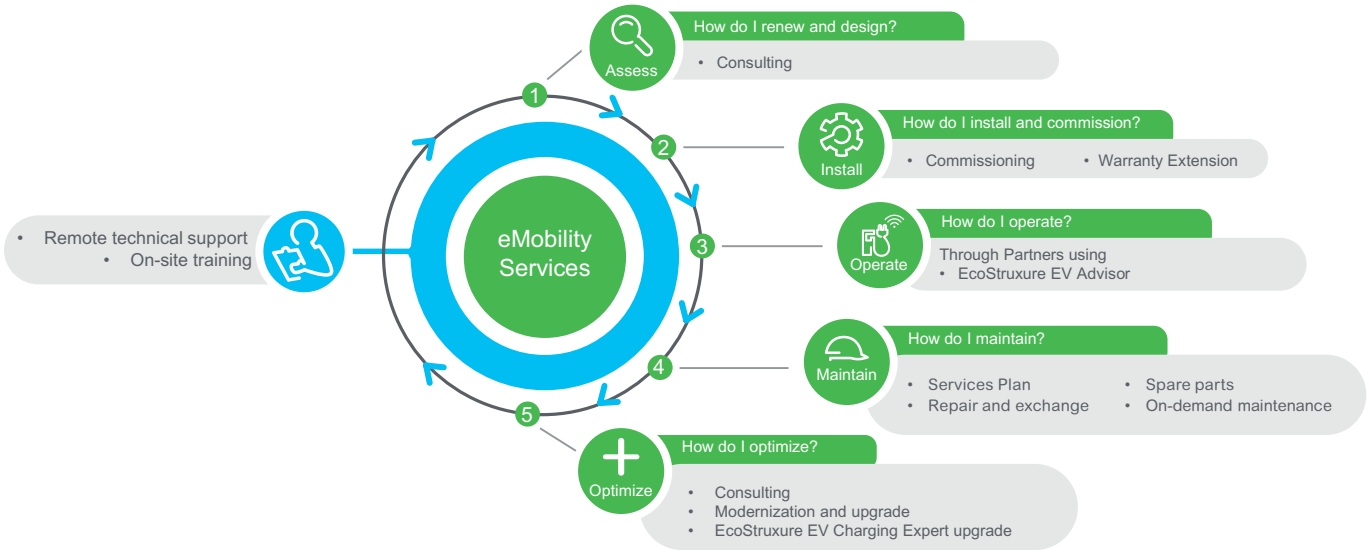
Leverage a contract individually tailored to your requirements and conditions.

Increased lifespan of your equipment

Extend the lifespan of your products and systems with preventive maintenance and services.

Schneider Electric expertise

Schneider Field Services representatives provide nationwide services with spare parts readily available for you.



Contact your local eMobility sales representative for further information

How do I install and commission?

Commissioning

For complex AC architectures with EcoStruxure EV Charging Expert, EVlink Pro AC or EVlink Pro DC

Our technical experts provide on-site and remote assistance in commissioning new charging station.

Benefits

- Minimize start-up time and improve end-user satisfaction.
- Take advantage of the expertise of Schneider Electric technicians on the choice of settings to improve system performance.
- Leverage an installation that complies with the Schneider Electric standard of practices and therefore optimizes equipment uptime and costs.

Download the MySchneiderApp and Manage your eMobility Asset seamlessly!

Manage the performance of your asset

- Manage the performance of your asset
- Anticipate any issues
- Technical support through FAQs and contact to the Customer care center

Download the Application

REGISTER YOUR ASSET NOW

Warranty Extension

Long-term protection of your asset with warranty extension

Our warranty extension* allows you to expand your factory warranty for an additional one or three years, giving you more flexibility and peace of mind, and improved control of your maintenance budget.

Benefits

- Keep repair costs under control
- Reduce maintenance costs of new products installed
- Tap into coverage flexibility and choose either one or three years

*The warranty extension can only be ordered at the time of purchasing your EVlink charging station.
Check warranty duration with your local sales representative and register the warranty extension by contacting our Customer Care center.

How do I maintain?

eMobility Service Plan

Extend life and performance of your equipment with our Services Plan

At Schneider Electric, we believe that the time and cost associated with EV charging infrastructure should never be barriers to achieving sustainable goals.

Benefits

- Continuous support with 8/5 remote technical support
- Optimize investment and increase uptime
- Control your budget with one fixed yearly plan for all maintenance needs
- Operate in optimum conditions with high-end services and up-to-date features and firmwares.

eMobility Spare Parts

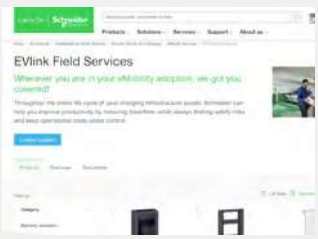
Maximize reliability and safeguard your maintenance needs with high quality original parts

Schneider Electric provides you with original, high-quality and fast delivered spare parts, always available from our local, regional and global stocks together with repair work when needed.

End of life policy

- Schneider Electric provides continuity of service for all withdrawn products.
- Withdrawn spare parts, accessories and charging stations are available for 5 years from the commercialization end date to replace or repair products.

Learn more on Schneider Electric website



Spare part list
on the website
EVlink Field services

Technical documentation

Please refer to bibliography in Appendix

How do I optimize?

EcoStruxure EV Charging Expert Upgrade and commissioning package

Extend the eMobility infrastructure

Schneider Electric technicians upgrade your EcoStruxure EV Charging Expert license to extend the charging station management capacity and/or to move to dynamic load management without buying new products.
They also perform on-site commissioning for additional charging stations and update the EcoStruxure EV Charging Expert software settings.

EVlink Parking modernization

Extend asset lifetime by replacing the motherboard

The upgrade of the electronic board for the EVlink Parking Service provides full Electronic Board replacement in order to extend the lifetime of your assets, modernize your infrastructure and postpone CapEx investment.

A professional network

eMobility Partner Program

Schneider Electric eMobility certified experts lead the way towards adopting new technology and processes to deliver high-quality services to our customers.

By becoming part of our partner network, you will be at the forefront of smart charging technology and expand your reach.

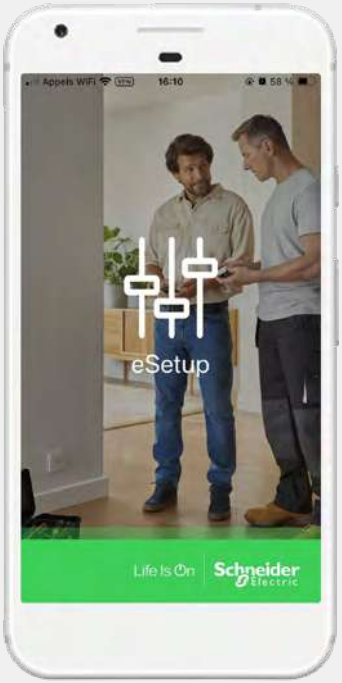
Join our professional network of certified eMobility partners to engage in a continuous specialization path.

Approved Installer for EVlink™

Schneider Electric

Benefits

- Gain in-depth knowledge and expertise
- Access to innovative digital tools and technical support
- Co-branding that enables the growth of your business



Mobile Apps for Partners

Easy commissioning with eSetup

- Save time on installation and commissioning and access to the charge details and maintenance report.

Download the Application

Get in touch for support

Customer care support

As one of our partners and customers, you have access to our technical support!

Schneider Electric offers bespoke remote support to help you improve your productivity by quickly resolving any technical issues related to your eMobility products, both for the hardware and software to answer any question one phone call away from you.

Premium Support

Our Premium Support is a highly responsive service adapted to our most loyal customers.

It allows us to answer your technical questions faster, with a commitment to a timeframe for response according to a Service Level Agreement on Initial Respond Time, and suitable resources to resolve the issue at hand. It enables direct access to Advanced Support Agents with multi-channel communication (phone, email, and chat) together with exclusive access to MySchneiderPortal containing exclusive FAQ content.

Reach out to our Customer Care team in your location

eMobility Training

Make the most of your staff's skills, giving them the resources to perform high-end services.

Schneider Electric offers a wide selection of training solutions to enhance your competencies in the right area of expertise

Select your courses now on the technical training course finder

Commercial references

Services dedicated to AC infrastructures

Warranty Extension		
Description	Product	Commercial reference
Additional 1-year Warranty Extension	Schneider Charge	**EVS2W1H**
Additional 3-year Warranty Extension	Schneider Charge	**EVS2W3H**

Warranty Extension		
Description	Product	Commercial reference
Additional 1-year Warranty Extension	EVlink Pro AC	**EVS2W1B**
Additional 3-year Warranty Extension	EVlink Pro AC	**EVS2W3B**

Training		
Description	Product	Commercial reference
Training AC infrastructure	Training on how to design AC charging Infrastructure	**EVS1TBD**
	Training on how to install & commission AC charging Infrastructure	**EVS1TBIC**
	Training on how to operate & maintain AC charging Infrastructure	**EVS1TBOM**

Commissioning		
Description	Product	Commercial reference
Remote assistance	Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CR0L**
	5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CRSL**
	Max. 5 EVlink Pro AC charging stations	**EVS1CR0**
	5 to 15 EVlink Pro AC charging stations	**EVS1CRS**
	Option: connection to a supervision solution	**EVS1CRCPO**
On-site	Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CF0L**
	5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CFSL**
	15 to 50 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CFML**
	50 to 100 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert	**EVS1CFLL**
	Max. 5 EVlink Pro AC charging stations	**EVS1CF0**
	5 to 15 EVlink Pro AC charging stations	**EVS1CFS**
	15 to 50 EVlink Pro AC charging stations	**EVS1CFM**
	Option: connection to a supervision solution	**EVS1CFCPO**

Service Plan		
Description	Product	Commercial reference
Service Plan duration	1 year eMobility Service Plan	**ECOESSEV1Y**
	3 years eMobility Service Plan	**ECOESSEV3Y**
	5 years eMobility Service Plan	**ECOESSEV5Y**
Upgrade Preventive Maintenance	Yearly Preventive Maintenance EVlink Pro AC	**ECOESSPRVPAC**
	Yearly Preventive Maintenance ecoStruxure EV Charging Expert	**ECOESSPRVEVCE**
Upgrade Warranty Extension	1 year Warranty Extension EVlink Pro AC	**ECOESSPACWE**
	1 year Warranty Extension ecoStruxure EV Charging Expert	**ECOESSEVCEWE**
Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)	FSR dispatch 8H	**ECOESSEVFSR8H**
	FSR dispatch 12H	**ECOESSEVFSR12H**
	FSR dispatch Next Business Day	**ECOESSEVFSRNBD**
	FSR dispatch 48H	**ECOESSEVFSR48H**

Modernization		
Description	Product	Commercial reference
EVlink Parking modernization	Upgrade of main circuit board, for 1 charge point	**EVS1UFP1B**
	Upgrade of main circuit board, for 2 charge point	**EVS1UFP2B**

Commercial references

Services dedicated to DC infrastructures

Training		
Description	Product	Commercial reference
Training on DC infrastructure	EVlink Pro DC 60 EcoXpert training Certified level	**EVS1TDC60CERTIFIED**
	EVlink Pro DC 60 EcoXpert training Master level	**EVS1TDC60MASTER**
	EVlink Pro DC 60 EcoXpert training upgrade Certified to Master level	**EVS1TDC60CERT2MAST**
	EVlink Pro DC 180 EcoXpert training Certified level	**EVS1TDC180CERT**
	EVlink Pro DC 180 EcoXpert training Master level	**EVS1TDC180MASTER**
	EVlink Pro DC 180 EcoXpert training upgrade Certified to Master level	**EVS1TDC180CERT2MAS**
	EVlink Pro DC offers EcoXpert training Certified level	**EVS1TDCCERTIFIED**
	EVlink Pro DC offers EcoXpert training Master level	**EVS1TDCMASTER**
	EVlink Pro DC offers EcoXpert training upgrade Certified to Master level	**EVS1TDCCERT2MAST**

Commissioning		
Description	Product	Commercial reference
Commissioning	On-Site Commissioning for 1 EVlink Pro DC ≥ 120 kW	**EVS1CFD100**
	On-Site Commissioning for 1 EVlink Pro DC 60 kW	**EVS1CFD60**

Service Plan		
Description	Product	Commercial reference
Service Plan duration	1 year eMobility Service Plan	**ECOESSEV1Y**
	3 years eMobility Service Plan	**ECOESSEV3Y**
	5 years eMobility Service Plan	**ECOESSEV5Y**
Upgrade Preventive Maintenance	Yearly Preventive Maintenance EVlink Pro DC ≥ 120 kW	**ECOESSPRVPDC100**
	Yearly Preventive Maintenance EVlink Pro DC 60 kW	**ECOESSPRVPDC60**
Upgrade Warranty Extension	1 year Warranty Extension EVlink Pro DC ≥ 120 kW	**ECOESSPDC100WE**
	1 year Warranty Extension EVlink Pro DC 60 kW	**ECOESSPDC60WE**
	1 year Warranty Extension for Power Module	**ECOESSPDCPMWE**
Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)	FSR dispatch 8H	**ECOESSEVFSR8H**
	FSR dispatch 12H	**ECOESSEVFSR12H**
	FSR dispatch Next Business Day	**ECOESSEVFSRNBD**
	FSR dispatch 48H	**ECOESSEVFSR48H**
Upgrade site assessment	1 site assessment EVlink Pro DC 180 kW	**ECOESSEVSAPD100**
	1 site assessment EVlink Pro DC 60 kW	**ECOESSEVSAPD60**

On-Demand Service	
On-Demand preventive maintenance visit ≥ 120 kW	**EVS1PMD100**
On-Demand preventive maintenance visit ≥ 60 kW	**EVS1PMD60**

Electrical Distribution for eMobility

Schneider Electric Power distribution

Increasing use of Electric Vehicle will require an intense growth of charging infrastructure. The vehicle charging needs connection to an electricity supply, the question of electrical distribution is central. The so-called EVSE (electric vehicle supply equipment) are intended to be installed in various environments.

the International Electrotechnical Committee (IEC) defined a set of standards, covering devices for protection (short-circuit, electric shocks, overvoltage) and electrical installation standards.

Please refer to appendix

Overview

Electrical Protections


MCCB


MCB


RCD


iMNx

Energy Efficiency


Metering solutions


EcoStruxure Panel Server

Scalability


Canalis


Kaedra


Pragma



PrismaSeT range

Learn more about Electrical Distribution Solutions

Acti9 Type A-SI or Type B:
Residual Current Devices (RCD, RCBO and RCCB)

Electrical protections for residential or buildings applications

As the EV connected to an AC EVSE may reject DC residual current during charging, the selection of type of RCD shall be considered carefully.

- Type A RCD, complying to IEC 61008 or IEC 61009 series can be used in conjunction with an EVSE equipped with a Residual Direct Current Detecting Device (RDC-DD), complying to IEC 62955, intended to detect 6 mA DC residual current.

- Type B RCD provides protection against residual AC, pulsating DC and smooth DC residual currents It provides also continuity of service in case of small DC residual currents.

Acti9 RCBO
A9DB2616

Acti9 iCV40N Type A-SI

- **Helps protect people** against earth leakage currents from multifrequency components, generated by charging station technology that can cause fibrillation and electrocution.
- **Simplify operation** thanks to VisiSafe™ and VisiTrip™.
- **Monitor and control the electrical panel** with PowerTag and Smartlink auxiliaries.

Acti9 iCV40N RCBO Type A-SI is certified (IEC/EN 61008-2-1)

Acti9 iID B type
A9Z51240

Acti9 iID B type for EV

- **Helps protect people** against multifrequency earth leakage currents, generated by charging station technology that can cause fibrillation and electrocution.
- **Be installed** in coordination with other upstream and parallel RCDs (refer to the Schneider Electric Residual Protection Device guide for coordination tables).

IEC 60364-7-722 standard requires a 30 mA residual current protection for direct contact.
Acti9 iID B type RCCB for EV is certified (IEC/EN 62423) and is fully compatible with EV charging stations for residential and tertiary applications.

Acti9 iC120N and Acti9 Vigi iC120:
Miniature circuit breaker and Earth leakage protection

Acti9 iC120N
A9N18480

Acti9 Vigi iC120
A9N18597

Standards

EN/IEC 60898-1
EN/IEC 60947-2

Acti9 iC120N and Acti9 Vigi iC120

Acti9 iC120H circuit breakers are multi-standard circuit breakers that combine the following functions:

- circuit protection against short-circuit currents
- circuit protection against overload currents
- suitability for isolation in the industrial sector to IEC/EN 60947-2
- fault tripping and indication by adding auxiliaries.

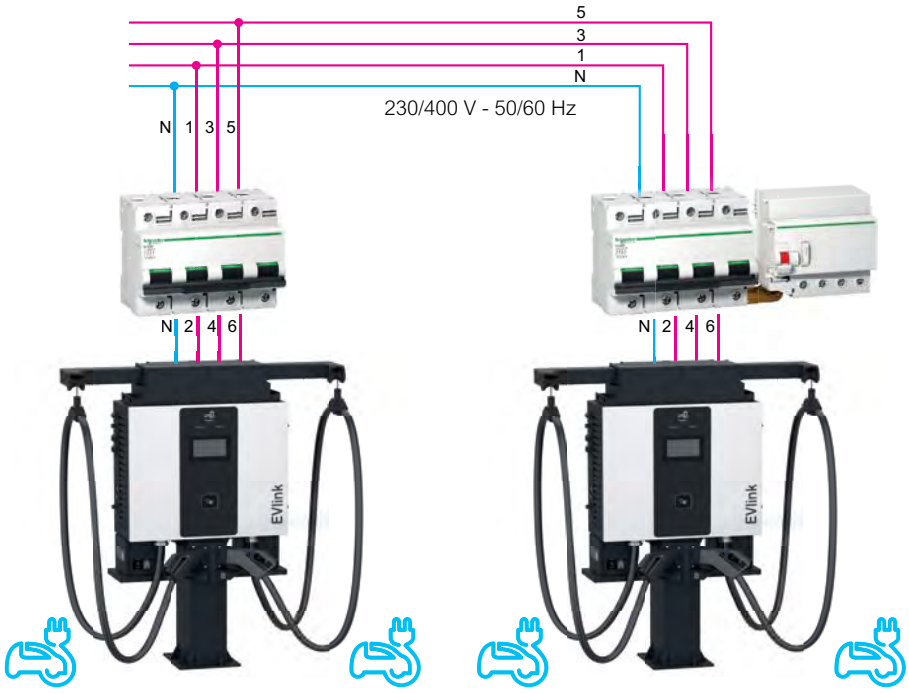
Acti9 Vigi iC120 is a modular add-on residual current devices.The earth leakage protection class is SI type and voltage independent technology. Sensitivity is available in 30mA, 300mA, 500mA and 1A.

When a Vigi iC120 device is combined with an iC120 circuit breaker, it provides the following functions:

- protection of persons against electric shock by direct contact (30 mA),
- protection of persons against electric shock by indirect contact (u 300 mA),
- protection of installations against fire hazards (300 mA to 1000 mA).

Learn more on se.com

Solution diagram



EVlink Pro DC 60 kW

EVlink Pro DC 60 kW

Current information and protections to use with EVlink Pro DC 60	
Current	
Power	**60 kW**
Rated current	**97 A**
Max. current	**107 A**
Electrical protection	
Circuit Breaker (Overcurrent) Schneider ElectricTM reference*	**3P+N or 4P**
	Acti9 C120 4P 125 A, curve C + Acti9 vigi C120 4P 30mA type A-SI (Optional RCD Protection)

ComPacT NSX and VigiPacT add-on:
Earth leakage protection

ComPacT NSX

VigiPact
LV432465

Learn more on
ComPacT NSX
& NSXm
Circuit Breakers

ComPacT NSX VigiPact add-on

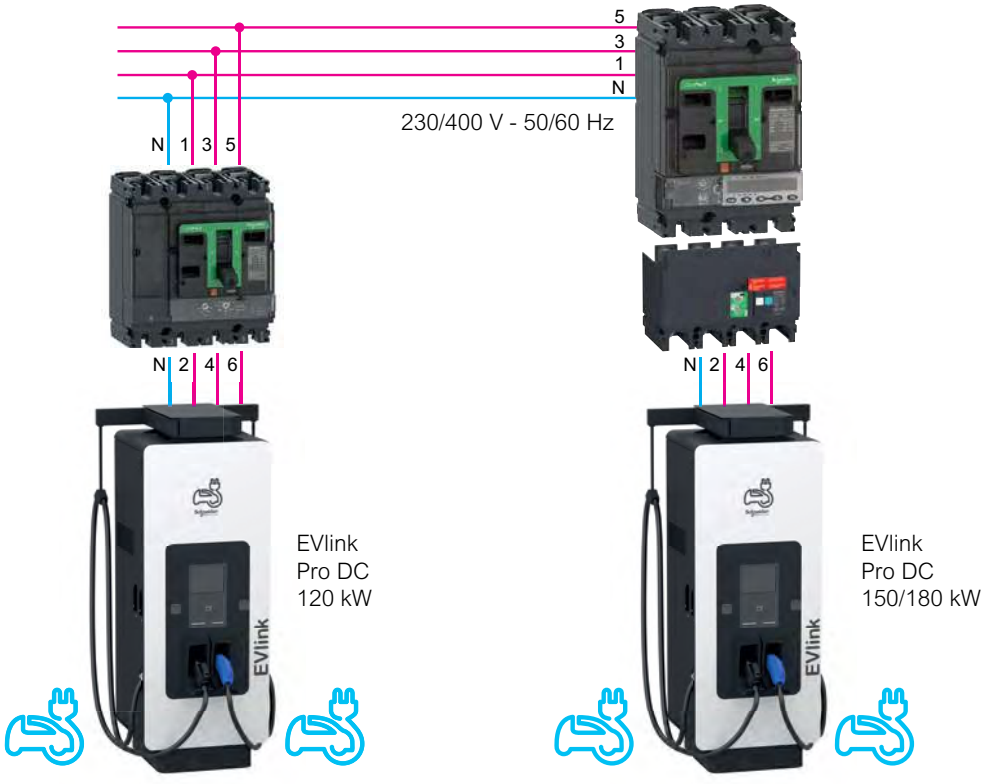
ComPact NSX with VigiPact Add and ComPact NSX with Micrologic 4 & 7 are Residual Current Device (RCD) according to IEC 60947-2 Annex B with a sensitivity adjustable from 30mA to 30A.

RCD may be required for protection against electric shock in case of line to earth fault and/or protection against thermal effect caused by insulation fault, depending on local regulation and characteristics of the installation (e.g long cables or earthing systems).

Standards:

- IEC 60947-2, annex B
- IEC 60755, Type A, immunity to DC components up to 6 mA
- Operation down to -25 °C as per VDE 664

Solution diagram



Current information and protections to use with EVlink Pro DC 120 - 150 - 180 kW				
Current				
Power		**120 kW**	**150 kW**	**180 kW**
	Rated current	**193 A**	**242 A**	**291 A**
	Max. current	**214 A**	**268 A**	**323 A**
Electrical protection				
	Circuit breaker (overcurrent)	**3P+N or 4P**	**3P+N or 4P**	**3P+N or 4P**
	References	**C25F4TM250* or C25F44V2501***	**C40F42D400**	**C40F42D400**
	Optional RCD protection (VigiPact)	**-**	**LV432465**	**LV432465**

*Optional RCD protection included.
Note: if there is plan to upgrade later (from 120 to 150 kW or 150 to 180 kW...) already consider the protection sizings for DC 180 kW.

iMNx:
undervoltage release tripping unit

Undervoltage release tripping unit to increase continuity of service and enhance people protection.

iMNx is an undervoltage release, independent from the supply voltage function which adds a second level of electrical protection.

Regardless of the RDC-DD 6 mA and in accordance with IEC60364-5-53 and EV Ready requirements, the MNx helps to protect people during intervention on electrical equipment and to increase continuity of service. IEC61851 ed3.0 §8.1 also recommends a monitoring solution to provide an isolating function.

Most of EVlink Pro AC charging stations have an embedded iMNx release.
If not, iMNx can be supplied with the charging station.

Acti**9** iMNx, undervoltage release

Commercial reference	**A9A26969**
[Uc] control circuit voltage	220...240 V AC 50/60 Hz
Control type	With external feeding
9 mm pitches	2
Width	18 mm

For EVlink Pro AC commercial references with embedded protection

Please refer to page 27

Metering solutions

Metering solutions to display the active energy consumed.

- Maximize charging power in residential and small tertiary applications
- Provide a MID certified meter so that the payment and billing is linked to the amount of energy consumption
- Send active energy consumed information in OCPP to a supervision solution with communicating meters.

Standalone meters with external current transformers

METSEPM5320

PowerLogic Power meter

Commercial reference	METSEPM5320
Communication	1 Ethernet port
Accuracy class	0.5 S
Dimensions	96 x 96 x 72 mm (H x W x D)
Consumption	130 mA / 24 V DC - 65 mA / PoE 48 V DC

To be completed with (not provided)

- a closed Current Transformer
- a cut-off device
- a short-circuiting block

PowerLogic PM5000 series power meters offer high-end cost management capabilities in a straightforward metering platform.

A9MEM3155

iEM Energy meters - MID

Commercial reference	A9MEM3155
Communication	Modbus
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 1 active energy conforming to IEC 61557-12 Class B active energy conforming to EN 50470-3
Width	90 mm
Poles description	3P+N 1P+N 3P

Acti9 iEM3000 series energy meters are cost-attractive, feature-rich energy meters for DIN rails and modular enclosures. More than just kWh meters, the Acti9 iEM3000 series meters provide a full overview of both energy consumption and on-site generation with full four-quadrant measurements of the active and reactive energy delivered and received.

Metering solutions

Circuit breakers with embedded metering

The Enerlin'X communication system provides access to device status, electrical values and control, using Ethernet and Modbus SL communication protocols.

Enerlin'X IFE
LV434002

Enerlin'X IFE switchboard server for Com**PacT** NSX circuit breaker

Commercial reference	**LV434002**
Enerlin'X IFE provides an Ethernet interface to a ComPacT NSX circuit breaker when it has an embedded metering module	
Electrical distribution	3-P, 4-P
Communication	Modbus TCP with circuit breaker
Metering	charging station energy consumption

MasterPacT MTZ with Micrologic Control unit

Enerlin'X EIFE
LV851001

Enerlin'X EIFE Embedded Ethernet interface for drawout Master**PacT** MTZ

Commercial reference	**LV851001**
Enerlin'X EIFE provides an embedded Ethernet interface to a MasterPacT circuit breaker with a Micrologic Control unit that can perform the charging stations metering	
Electrical distribution	3-P, 4-P
Communication	Modbus TCP with circuit breaker
Metering	charging station energy consumption

IoT gateway for an intelligent power network

EcoStruxure Panel Server is a modular gateway with enhanced cybersecurity that provides easy and fast connections to multiple concurrent edge control or cloud applications.

EcoStruxure Panel Server
PAS600

EcoStruxure Panel Server

Commercial reference	**PAS600 / PAS600L / PAS600T**
Ethernet communication	2 Ethernet ports, type 10/100 Base: HTTPS, Modbus TCP/IP, SFTP, SNMP, ARP
Serial communication	1 serial port (RS485, 2 wires) – RS232 not supported Modbus serial protocol
Power supply	24 VDC, POE, 100-240 VACDC, 100-277 VACDC (different Panel Server references)
Consumption	3W max for 24 VDC – 5W max for 100-240 VACDC, 100-277 VACDC
Width	72 mm
Operating temperature	-25°C to +70°C

Canalis™ :
Decentralized EV distribution

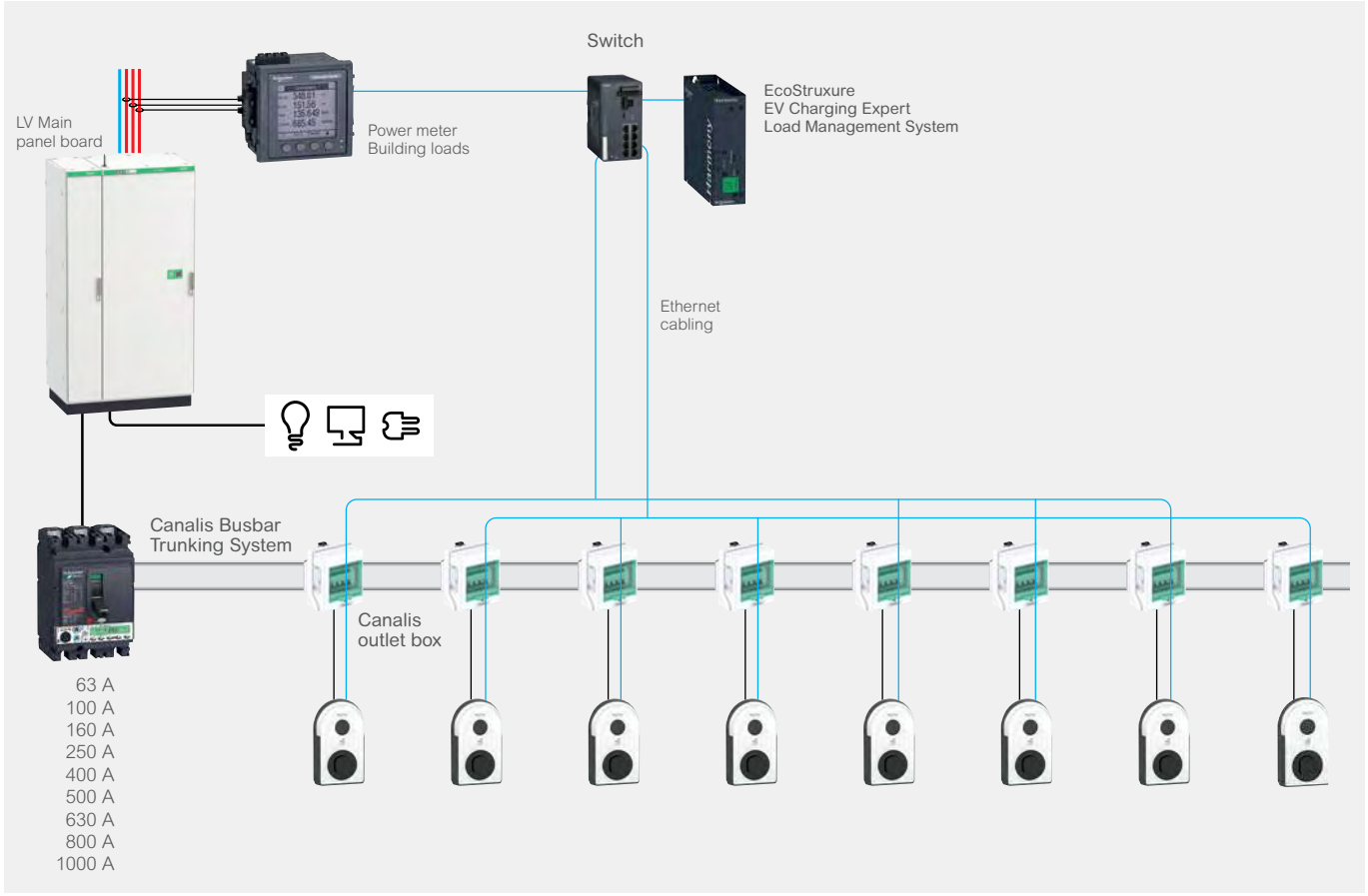
Canalis busbar trunking system

Decentralized EV charger electrical distribution with the Canalis™ busbar trunking system allows you to save time and cost on installation, and to be ready for future extensions.

Save space in your LV Switchboard and cost in the event of a change in the system*:

- Installation in half the time compared with cables
- Future readiness

Decentralized distribution with Canalis is an optimized solution for indoor car parks and garages, bringing easy servicing and scalability. EVlink terminal distribution kits enable direct connection to the busbar.



A new concept for outdoor charging stations.

Canalis for EV is a plug-and-play system, powered by Canalis KS and based on a modular design composed of prefabricated parts which are available through the distribution network.

A modular solution to bring a maximum of possibilities

1. Canalis is fed by cables coming through the feed pillar or rom the top when the canopy is next to a building.
2. Chargers are powered by Canalis KS busbar trunking and its tap-off units.
3. The structure is adapted for all situations, regardless of the parking space size, the number of chargers weither they are installed in front or side of the pilars.
4. The canopy surface can be used to identify the parking places with numbers, company name... and can be equipped with lights to help the car connection.
5. The feed pillar can be customized to be equipped with a payment terminal.

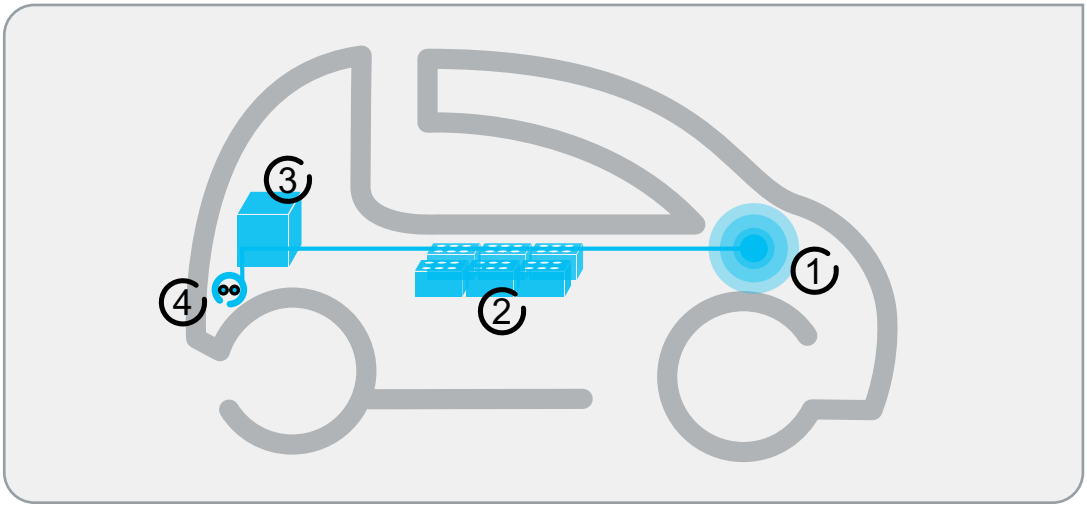
Learn more about
Canalis ™ for EV Outdoor Charging Infrastructure


Schneider Electric
Learn more
Mobility

Appendix

Electric Vehicle additional information

How does it work?



4 major components:

① Motor

The vehicle has one or more motors. Depending on size and performance, the total power ranges between 15 and 200 kW.

Example: 48 kW (65 hp) for a small 4-seater sedan.

② Batteries

Huge advances in battery technology have been made in recent years. Lead has gradually been replaced by other, more efficient compounds. Research continues with a view to improving capacity and reducing weight.

The most common technology at present is lithium-ion.

These new batteries have no memory effect and can therefore be charged without having to be completely empty beforehand. They are present in telephones, laptop computers, and some aircraft, as well as in electric vehicles.

③ On-board charger

The vehicle is fitted with one battery charger supplied in AC by the charging station that defines the maximum charging current available. In some vehicles the battery charger may also be supplied in DC by the charging station.

④ Charging inlet

The vehicle is fitted with at least one inlet for AC charging. In some vehicles, the inlet can also be used for DC fast charging or is completed by a second inlet for DC fast charging.

Learn more

Wiki Guide
for electric vehicle charging

Electric Vehicle standards

Charging an electric vehicle means connection to a powerful electricity supply.
All electrical installations should be properly designed, constructed, and treated according to the IEC standards for EV installations.

The International Electrotechnical Committee (IEC) has defined a set of standards for EV infrastructure, covering devices, protection and electrical installation.

IEC 61851 standard for EV supply equipment

This standard defines the fundamental aspects of EV charging and contains all the requirements covering the EVSE, as equipment. Therefore, the EVSE must comply with the IEC 61851 series and shall be supplied according to IEC 60364-7-722 Requirements.

Electric Vehicle Supply Equipment complying with IEC 61851-1 edition 3

IEC 60364 -part 7-722 for Low Voltage installations

The international series of standards for Low Voltage Electrical Installations (IEC 60364 series) contains a new part dedicated to supplies for electric vehicles.

IEC 60364 part 7-722 requires electrical protective measures:

- **Protection against short-circuits and overloads with circuit breakers**
- **Protection against electric shocks and risks of electrocution with a 30 mA RCD.**
  The RCD shall preferably be of type B, or possibly of type A in case the EVSE contains a 6 mA DC detection
- **Protection against overvoltage with a surge protection device (SPD)**

Acti9 iC60 circuit breaker

Acti9 B type
Earth leakage protection

Acti9 Surge Protection Device

IEC 61969-3 standard for enclosure installed outdoor

- IEC 61969-3 for outdoor enclosure (climatic, biological and chemical tests)
- IEC 60927-3-100 installation of electronic equipment
- IEC 62208 and UL50 Empty enclosures
- ISO12944 C4H Anti-corrosion

Class II Electrical protection (for Polyester enclosures)

PanelSet SF/SFN
heavy duty oudoor enclosure

Learn more

White Paper
Safety measures for electric vehicle charging

Communication network

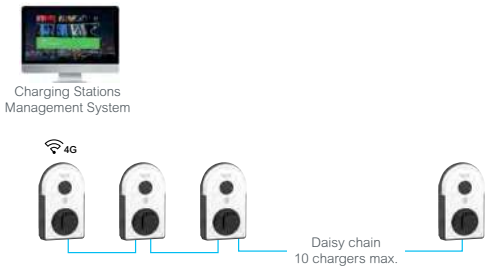
Possible IT network topologies

4G embedded modem

Each charging station is individually connected to the Charging Station Management System.

4G embedded modem - EVlink Pro AC Cluster

One charging station owns an embedded modem and shares 4G connectivity within a maximum of 9 other charging stations.



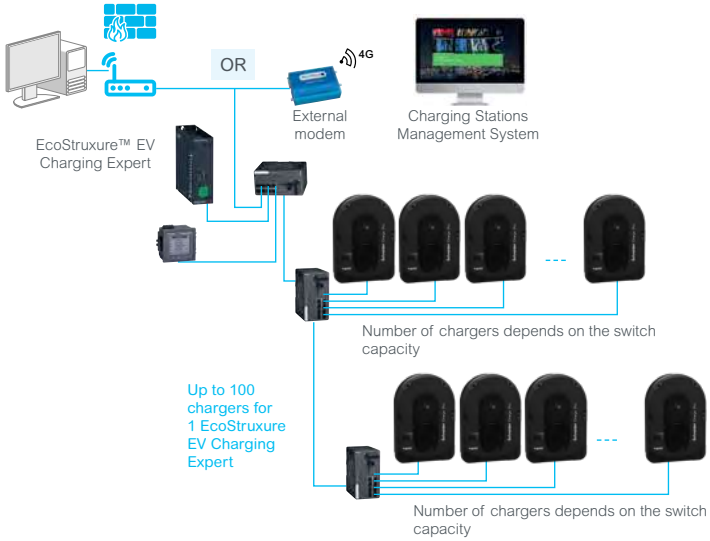
Wi-Fi communication - EVlink Pro DC or Schneider Charge Pro

This communication set-up requests a local Wi-Fi network.

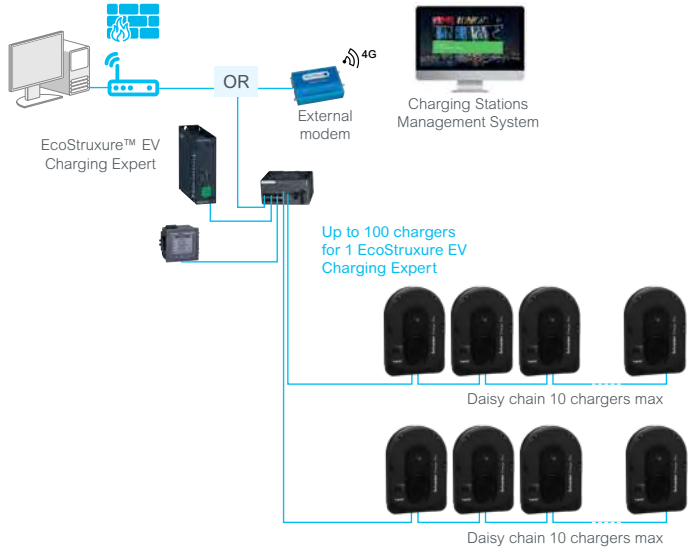
Communication network

Network topologies for Schneider Charge Pro

Star



Daisy chain



Offer compatibility:
Schneider Charge Pro
EVlink Pro AC
EVlink Pro DC 60
EVlink Pro DC 120 -180 kW
EcoStruxure EV Charging Expert

Modicon Managed and Unmanaged Switches

The Modicon Networking range offers you a smart and flexible way to integrate Ethernet solutions into your operation, from the device level to the control network and to your corporate network.

Unmanaged switch for star topology

4 ports for copper

MCSESU053FN0

8 ports for copper

MCSESU083FN0

Managed switch for ring and daisy chain topologies

4 ports for copper

MCSESM043F23F0

8 ports for copper

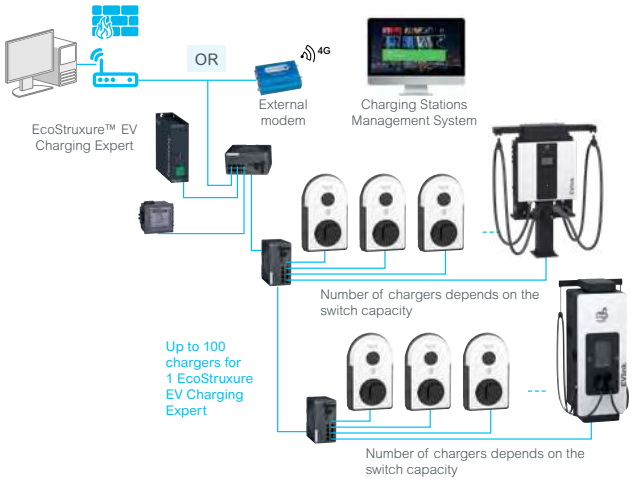
MCSESM083F23F0

These managed switches come with the Ethernet TCP/IP protocol.
They come with 4 or 8 copper cable transmission ports.
They provide simple and complex connectivity for multiple Ethernet devices, network management, enhanced cyber security and more advanced switching features.

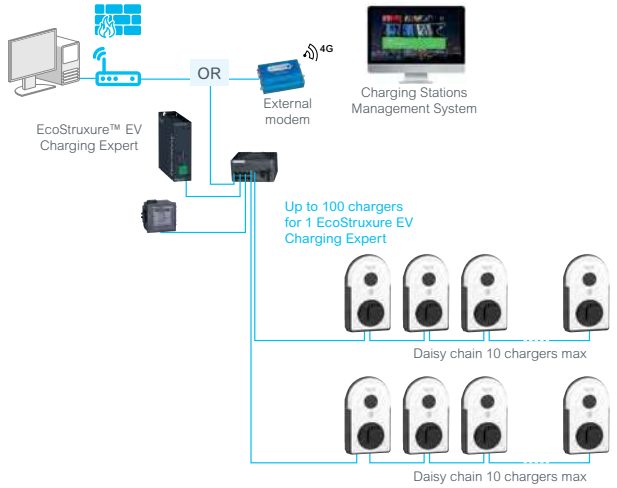
Complete range **of Modicon Switches**

Network topologies for EVlink Pro AC and EVlink Pro DC

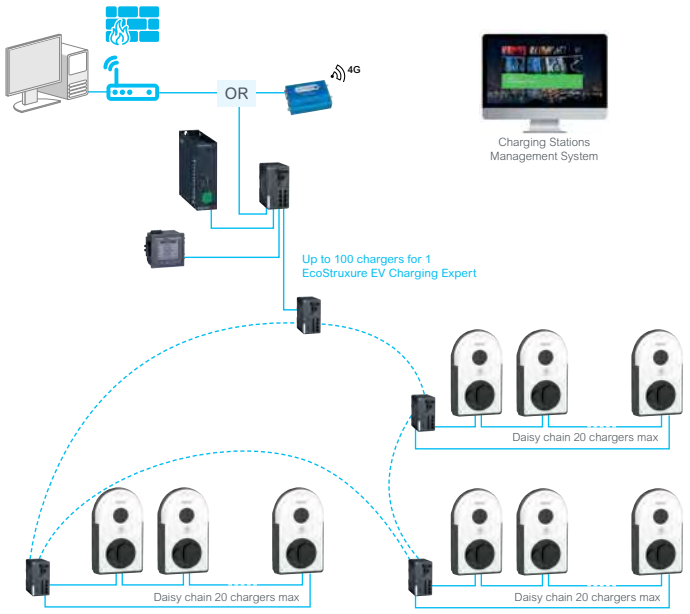
Star



Daisy chain



Daisy chain loop-Ring* for EVlink Pro AC



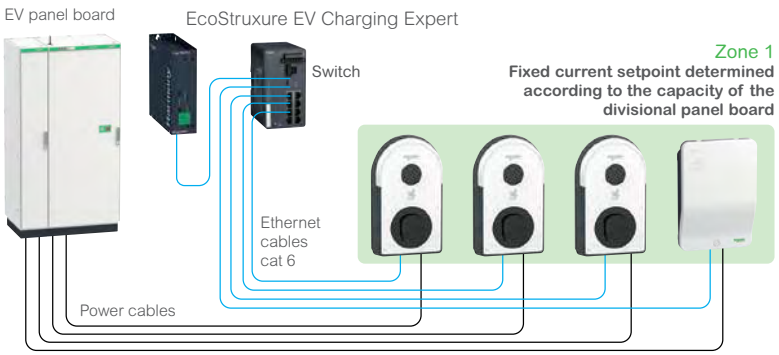
(*) For ring topology, the RSTP bridge priority is set to 32768, not modifiable. The bridge priority of the RSTP switch shall so be set to a lower value: for instance, 4096.

EcoStruxure™ EV Charging Expert

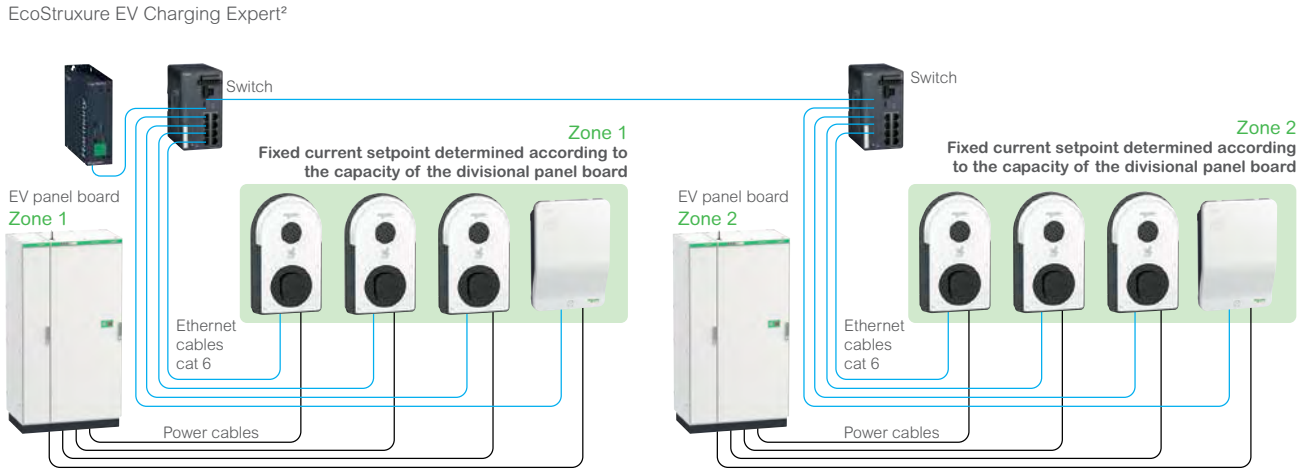
Typical load management architectures

Static load management

Single-zone

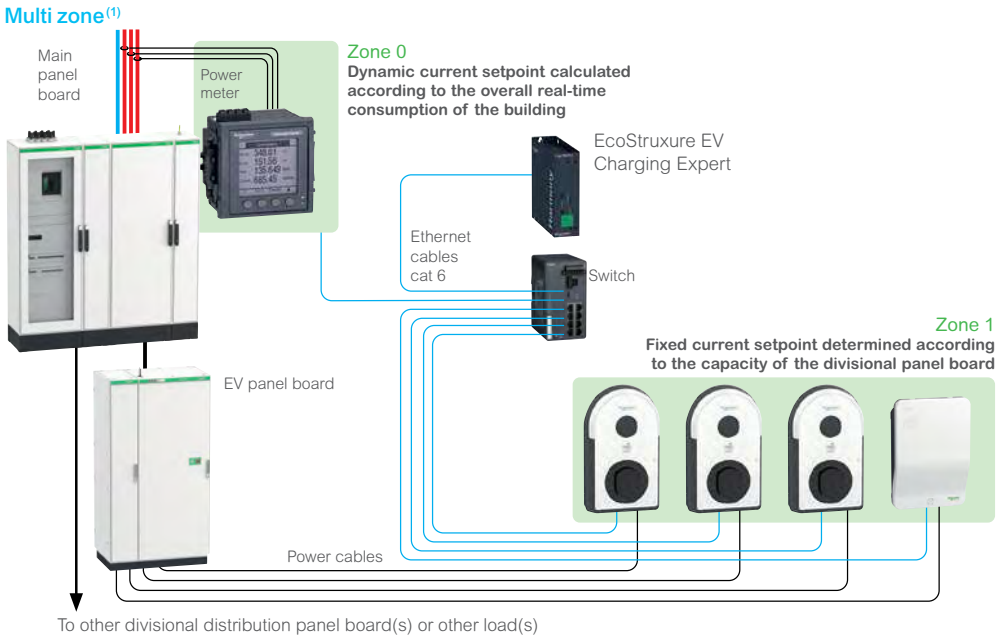


Multi-zone (multiple switchboards)

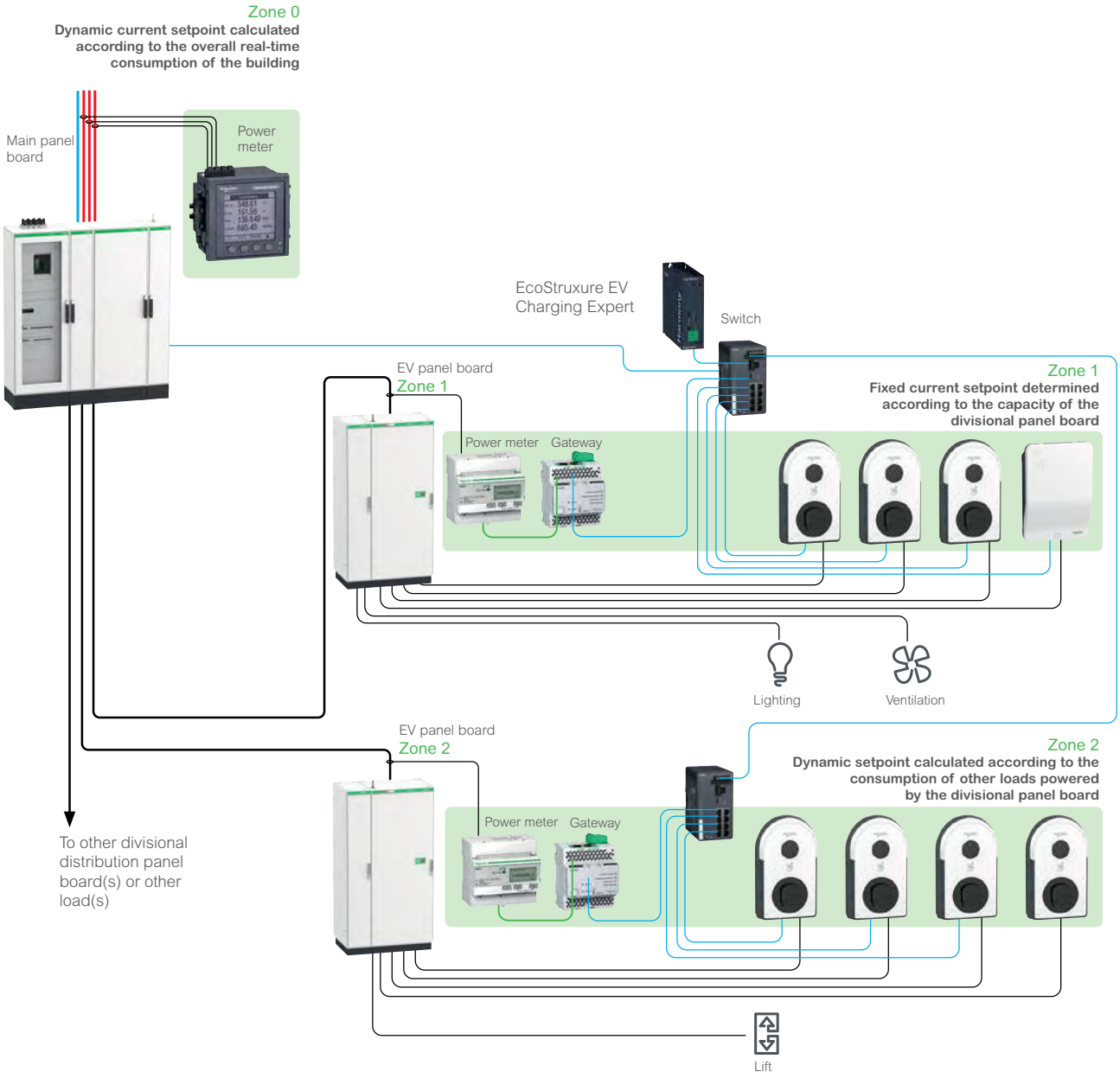


EcoStruxure™ EV Charging Expert

Dynamic load management



Typical load management architectures



List of commercial references

Schneider Charge

Characteristics		References[1]
		Schneider Charge
Charging stations with socket outlet		
	7.4 kW (1P32A),11 kW (3P 16A), 22 kW (3P 32A)	**EVH5A22N2S**
Charging stations with attached cable 5 m and T2 connector		
	7.4 kW (1P - 32 A)	**EVH5A07N2C5**
	11 kW (3P - 16 A)	**EVH5A11N2C5**
Charging stations with attached cable 7 m and T2 connector		
	7.4 kW (1P - 32 A)	**EVH5A07N2C7**
	11 kW (3P - 16 A)	**EVH5A11N2C7**

Characteristics		References[1]
		Schneider Charge with TIC*
Charging stations with socket outlet		
	7.4 kW (1P32A),11 kW (3P 16A), 22 kW (3P 32A) (1P/3P+N)	**EVH5A22N400F**

*Only for France

Accessories	References
Peak controller	
1 Phase anti-tripping module (peak controller from 16 A to 50A)	**EVA4HPC1**
1 Phase anti-tripping module (peak controller from 32 A to 100 A)	**EVA2HPC1**
3 Phase anti-tripping module (peak controller from 16A to 50A)	**EVA2HPC3**
Gun Holder	
Schneider Charge Gun Holder	**EVA5GH**

Services	References
Schneider Charge - Warranty extension	
Additional 1-year Warranty Extension	**EVS2W1H**
Additional 3-year Warranty Extension	**EVS2W3H**

Schneider Charge Pro

Characteristics	References[1]
Charging stations with socket outlet	
Charge Pro 22KW T2S TIC	**EVB4S22N40**
Charge Pro 22KW T2S MID TIC	**EVB4S22N40M**
Charge Pro 22KW T2S TIC 4G	**EVB4S22N40G**
Charge Pro 22KW T2S MID TIC 4G	**EVB4S22N40MG**
Charging stations with attached cable	
Charge Pro 22KW Att Cable	**EVB4S22NC0**
Charge Pro 22KW Att Cable MID	**EVB4S22NC0M**
Charge Pro 22KW Att Cable 4G	**EVB4S22NC0G**
Charge Pro 22KW Att Cable MID 4G	**EVB4S22NC0MG**

Accessories and Spare parts	References[1]
Peak Controllers	
1 Phase anti-tripping module (peak controller from 16 A to 50A)	**EVA4HPC1**
1 Phase anti-tripping module (peak controller from 32 A to 100 A)	**EVA2HPC1**
3 Phase anti-tripping module (peak controller from 16A to 50A)	**EVA2HPC3**
Pedestal Plate	
Pedestal plate for 1 Schneider Charge Pro	**EVA2PBS1**
Pedestal plate for 2 Schneider Charge Pro	**EVA2PBS2**
Plate to convert pedestal from 1 to 2 Schneider Charge Pro	**EVA2PCS2**
Spare Parts	
T2 socket Sparepart	**EVP2SSS43**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

EVlink™ Pro AC and Pro AC Metal

Characteristics	References
Charging stations with socket outlet	
EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX	**EVB3S07N4A**
EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX MID	**EVB3S07N4AM**
EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA RCD Type Asi MNX MID	**EVB3S07N4EAM**
EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA RCD Type Asi MNX	**EVB3S07N4EA**
EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA MNX MID	**EVB3S07N40M**
EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA MNX MID	**EVB3S07N40EM**
EVlink Pro AC 11 kW 16 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX	**EVB3S11N4A**
EVlink Pro AC 11 kW 16 A 3PH T2S TF SOCKET RCD Type B EV MNX	**EVB3S11N4FB**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET RCD Type B EV MNX	**EVB3S22N4B**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX	**EVB3S22N4A**
EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET 6 mA RCD Type Asi 30 mA MNX	**EVB3S22N4EA**
EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET RCD Type B EV MNX	**EVB3S22N4EB**
EVlink Pro AC 22 kW 32 A 3PH T2S TF SOCKET RCD Type B EV MNX	**EVB3S22N4FB**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET MID 6 mA and MNX supplied	**EVB3S22N40M**
EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET MID 6 mA and MNX supplied	**EVB3S22N40EM**
EVlink Pro AC 22 kW 32 A 3PH T2S TF SOCKET MID 6 mA and MNX supplied	**EVB3S22N40FM**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA MNX	**EVB3S22N4**
EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET 6 mA MNX	**EVB3S22N4E**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET MID and RCD B EV MNX supplied (recommended for Metallic kit)	**EVB3S22N40MR**
EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA	**EVB3S07N41**
EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA	**EVB3S07N4E1**
EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA	**EVB3S22N41**
EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET 6 mA	**EVB3S22N4E1**
Charging stations with attached cable	
EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD Type Asi MNX	**EVB3S07NCA**
EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD Type Asi MNX MID	**EVB3S07NCAM**
EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD-DD and MNX supplied	**EVB3S07NC0**
EVlink Pro AC 22 kW 32 A 3PH Attached Cable 6 mA RCD-DD and MNX supplied	**EVB3S22NC0**
EVlink Pro AC 11 kW 16 A 3PH Attached Cable 6 mA RCD Type Asi MNX	**EVB3S11NCA**
EVlink Pro AC 22 kW 32 A 3PH Attached Cable 6 mA RCD Type Asi MNX	**EVB3S22NCA**
EVlink Pro AC 22 kW 32 A 3PH Attached Cable RCD Type B EV MNX	**EVB3S22NCB**
EVlink Pro AC 22 kW 32 A 3PH Attached Cable MID 6 mA and MNX supplied	**EVB3S22NC0M**

Accessories	References(1)
Pack of 10 RFID Badges	**EVP1BNS**
Cable holder for EVlink Pro AC Metal charger	**EVA1FWHS12**
Permanent T2S socket cable holder EVlink Pro AC	**EVA1PLS1**
Pedestal	
Pedestal for 1 EVlink Pro AC Charger	**EVA1PBS1**
Pedestal for 2 EVlink Pro AC Chargers	**EVA1PBS2**
Plate to convert Pedestal for 1 charger to Pedestal for 2 EVlink Pro AC	**EVA1PCS2**
Metallic kits	
EVlink Pro AC Metal wall mount 1 charge point kit	**EVA1RWKS1**
EVlink Pro AC Metal floor standing 1 charge point kit	**EVA1RFKS1**
EVlink Pro AC Metal floor standing 2 charge points kit	**EVA1RFKS2**
Enclosures	
Thalassa PLS box kit IP66 power cable 25 35²	**EVA1RFKES**
Communication interface	
4G kit - embedded modem with 2 internal antennas for EVlink Pro AC	**EVA1MS**
4G kit - embedded 4G modem with an external antenna for EVlink Pro AC Metal	**EVA1MM**
Smart meter connection Historical Standard TIC tele information client card EVlink Pro AC	**EVA1MTH**
EVlink Pro PAY payment kiosk	
Payment kiosk for EV charging installations	**EVPROPAY**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

List of commercial references

EVlink™ Pro AC and Pro AC Metal

Charging cables	References
EVlink charging cables	
T2-T2 plug connector 32 A 1 Phase 5 m length	**EVP1CNS32122**
T2-T2 plug connector 32 A 1 Phase 7 m length	**EVP1CNL32122**
T2-T2 plug connector 32 A 1 Phase 10 m length	**EVP1CNX32122**
T2-T2 plug connector 32 A 3 Phase 5 m length	**EVP1CNS32322**
T2-T2 plug connector 32 A 3 Phase 7 m length	**EVP1CNL32322**
T2-T2 plug connector 32 A 3 Phase 10 m length	**EVP1CNX32322**

EVlink Pro AC Spare parts	References
Front panel	
SE white front plate	**EVP1SS**
SE white front plate with cut-out window	**EVP1SM**
Socket outlet	
1PH socket outlet T2S	**EVP1SSS41**
3PH socket outlet T2S	**EVP1SSS43**
1PH socket outlet T2S and Domestic TE	**EVP1SSS51**
3PH socket outlet T2S andDomestic TE	**EVP1SSS53**
1PH socket outlet T2S Domestic TF	**EVP1SSS61**
3PH socket outlet T2S Domestic TF	**EVP1SSS63**
TE domestic socket	**EVP1SSSE**
TF domestic socket	**EVP1SSSF**
Attached cable	
T2 attached cable 3PH 32 A 5 meter length	**EVP1CSS323C**
T2 attached cable 1PH 32 A 5 meter length	**EVP1CSS321C**

Services	References(1)
EVlink Pro AC - Warranty extension	
Additional 1-year Warranty Extension for EVlink Pro AC	**EVS2W1B**
Additional 3-year Warranty Extension for EVlink Pro AC	**EVS2W3B**
Training	
Training on how to design AC charging Infrastructure	**EVS1TBD**
Training on how to install & commission AC charging Infrastructure	**EVS1TBIC**
Training on how to operate & maintain AC charging Infrastructure	**EVS1TBOM**

Comissioning	References(1)
Remote assistance	
Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CR0L**
5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CRSL**
Max. 5 EVlink Pro AC charging stations	**EVS1CR0**
5 to 15 EVlink Pro AC charging stations	**EVS1CRS**
Option: connection to a supervision solution	**EVS1CRCPO**
On-site	
Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CF0L**
5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CFSL**
15 to 50 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CFML**
50 to 100 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert	**EVS1CFLL**
Max. 5 EVlink Pro AC charging stations	**EVS1CF0**
5 to 15 EVlink Pro AC charging stations	**EVS1CFS**
15 to 50 EVlink Pro AC charging stations	**EVS1CFM**
Option: connection to a supervision solution	**EVS1CFCPO**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

EVlink™ Pro AC and Pro AC Metal

Service Plan	References[1]
Service Plan duration	
1 year eMobility Service Plan	**ECOESSEV1Y**
3 years eMobility Service Plan	**ECOESSEV3Y**
5 years eMobility Service Plan	**ECOESSEV5Y**
Upgrade Preventive Maintenance	
Yearly Preventive Maintenance EVlink Pro AC	**ECOESSPRVPAC**
Yearly Preventive Maintenance EcoStruxure EV Charging Expert	**ECOESSPRVEVCE**
Upgrade Warranty Extension	
1 year Warranty Extension EVlink Pro AC	**ECOESSPACWE**
1 year Warranty Extension EcoStruxure EV Charging Expert	**ECOESSEVCEWE**
Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)	
FSR dispatch 8H	**ECOESSEVFSR8H**
FSR dispatch 12H	**ECOESSEVFSR12H**
FSR dispatch Next Business Day	**ECOESSEVFSRNBD**
FSR dispatch 48H	**ECOESSEVFSR48H**

Modernization	References[1]
EVlink Parking modernization	
Upgrade of main circuit board, for 1 charge point	**EVS1UFP1B**
Upgrade of main circuit board, for 2 charge point	**EVS1UFP2B**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

List of commercial references

EVlink™ Pro DC 60 kW

Characteristics	References
Charging Stations	
EVLINK Pro DC 60 kW DC CCS Combo 2 + CCS Combo 2; 3.6 meters cable range; with cable management; 50 Hz	**EVD1S60TBB**
EVLINK Pro DC 60 kW DC CCS Combo 2 + CHAdeMO; 3.6 meters cable range; with cable management, 50 Hz	**EVD1S60THB**
EVLINK Pro DC 60 kW DC CCS Combo 2 + CCS Combo 2; 5 meters cable range; without cable management, 50 Hz	**EVD1S60TBBC5**
EVLINK Pro DC 60 kW DC CCS Combo 2 + CHAdeMO; 5 meters cable range; without cable management, 50 Hz	**EVD1S60THBC5**
EVLINK Pro DC 60 kW DC CCS Combo 2 + CCS Combo 2; 7 meters cable range; without cable management, 50 Hz	**EVD1S60TBBC7**
EVLINK Pro DC 60 kW DC CCS Combo 2 + CCS Combo 2; 3.6 meters cable range; with cable management; 60 Hz	**EVD1S60TBB-SA**
Accessories	
Pack of 10 RFID Badges	**EVP1BNS**
74 cm pedestal for EVD1S60TBB or EVD1S60TBBC5 or EVD1S60TBBC7	**EVP1DB3LG**
100 cm pedestal for EVD1S60TBB or EVD1S60TBBC5 or EVD1S60TBBC7	**EVP1DB4LG**
74 cm pedestal for EVD1S60THB or EVD1S60THBC5	**EVP1DB5LG**
100 cm pedestal for EVD1S60THB or EVD1S60THBC5	**EVP1DB6LG**
Cable management accessory for EVD1S60TBBC5 or EVD1S60THBC5	**EVA1D60S01**

Training	References
EVlink Training in DC infrastructure	
Training on EVlink Pro DC 60 kW – How to Install	**EVS1TID60**

Commissioning	References
On-site	
For 1 EVlink Pro DC 60	**EVS1CFD060**

EVlink™ Pro DC 60 kW Services

Service Plan	References(1)
Service Plan duration	
1 year eMobility Service Plan	**ECOESSEV1Y**
3 years eMobility Service Plan	**ECOESSEV3Y**
5 years eMobility Service Plan	**ECOESSEV5Y**
Upgrade Preventive Maintenance	
Yearly Preventive Maintenance Pro DC 60 kW (must be sold with any of the Service plan reference)	**ECOESSPRVPDC60**
Upgrade Warranty Extension	
1 year Warranty Extension Pro DC 60 kW	**ECOESSPDC60WE**
Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)	
FSR dispatch 8H	**ECOESSEVFSR8H**
FSR dispatch 12H	**ECOESSEVFSR12H**
FSR dispatch Next Business Day	**ECOESSEVFSRNBD**
FSR dispatch 48H	**ECOESSEVFSR48H**
Upgrade site assessment	
1 site assessment EVlink Pro DC 60 kW	**ECOESSEVSAPD60**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

EVlink™ Pro DC 120-150-180 kW

Characteristics	References
Charging Stations	
EVLINK Pro DC 120 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m range; with cable management	**EVD1S120TBB**
EVLINK Pro DC 150 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m range; with cable management	**EVD1S150TBB**
EVLINK Pro DC 180 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m range; with cable management	**EVD1S180TBB**
EVLINK Pro DC 120 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal	**EVD1S120TBBCC**
EVLINK Pro DC 150 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal	**EVD1S150TBBCC**
EVLINK Pro DC 180 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal	**EVD1S180TBBCC**
EVLINK Pro DC 120 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal, Eichrecht	**EVD1S120TBBCC-G**
EVLINK Pro DC 150 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal, Eichrecht	**EVD1S150TBBCC-G**
EVLINK Pro DC 180 kW DC CCS Combo 2 + CCS Combo 2; 3.6 m cable range; with cable management, payment terminal, Eichrecht	**EVD1S180TBBCC-G**
EVLINK Pro DC 120 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management	**EVD1S120TBBC7**
EVLINK Pro DC 150 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management	**EVD1S150TBBC7**
EVLINK Pro DC 180 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management	**EVD1S180TBBC7**
EVLINK Pro DC 120 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management, Eichrect	**EVD1S120TBBC7-G**
EVLINK Pro DC 150 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management, Eichrect	**EVD1S150TBBC7-G**
EVLINK Pro DC 180 kW DC CCS Combo 2 + CCS Combo 2; 7.5 m cable range; without cable management, Eichrect	**EVD1S180TBBC7-G**
Accessories	
Pack of 10 RFID Badges	**EVP1BNS**

Training	References
Training on DC infrastructure	
Training on EVlink Pro DC 180 kW – How to Install	**EVS1TID100**

Commissioning	References
On site	
For 1 EVlink Pro DC ≥ 120 kW	**EVS1CFD100**

EVlink™ Pro DC 120-150-180 kW Services

Service Plan	References(1)
Service Plan duration	
1 year eMobility Service Plan	**ECOESSEV1Y**
3 years eMobility Service Plan	**ECOESSEV3Y**
5 years eMobility Service Plan	**ECOESSEV5Y**
Upgrade Preventive Maintenance	
Yearly Preventive Maintenance Pro DC 180 kW (must be sold with any of the Service plan reference)	**ECOESSPRVPDC100**
Upgrade Warranty Extension	
1 year Warranty Extension Pro DC 180 kW	**ECOESSPDC100WE**
1 year Warranty Extension for Power Module	**ECOESSPDCPMWE**
Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)	
FSR dispatch 8H	**ECOESSEVFSR8H**
FSR dispatch 12H	**ECOESSEVFSR12H**
FSR dispatch Next Business Day	**ECOESSEVFSRNBD**
FSR dispatch 48H	**ECOESSEVFSR48H**
Upgrade site assessment	
1 site assessment EVlink Pro DC 180 kW	**ECOESSEVSAPD100**

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

List of commercial references

EcoStruxure™ EV Charging Expert

Characteristics	References[1]	Availability in Versions 1 to 5	Availability in Versions 6 and later
Core			
EV Charging Expert Core 5 CS dynamic	**HMIBSCEA53D1EDB**	•	•
EV Charging Expert Core 15 CS dynamic	**HMIBSCEA53D1EDS**	•	•
EV Charging Expert Core 50 CS dynamic	**HMIBSCEA53D1EDM**	•	•
EV Charging Expert Core 15 CS static	**HMIBSCEA53D1ESS**	•	
EV Charging Expert Core 50 CS static	**HMIBSCEA53D1ESM**	•	
EV Charging Expert Core 100 CS dynamic	**HMIBSCEA53D1EDL**	•	•
Upgrade			
EV Charging Expert Upgrade dynamic 5 CS to 15 CS	**EVLMSEDB2EDS**	•	•
EV Charging Expert Upgrade dynamic 5 CS to 50 CS	**EVLMSEDB2EDM**	•	•
EV Charging Expert Upgrade dynamic 5 CS to 100 CS	**EVLMSEDB2EDL**	•	•
EV Charging Expert Upgrade 15 CS from static to dynamic	**EVLMSESS2EDS**	•	
EV Charging Expert Upgrade static from 15 CS to 50 CS	**EVLMSESS2ESM**	•	
EV Charging Expert Upgrade from 15 CS static to 50 CS dynamic	**EVLMSESS2EDM**	•	
EV Charging Expert Upgrade dynamic from 15 CS to 50 CS	**EVLMSEDS2EDM**	•	•
EV Charging Expert Upgrade from 15 CS static to 100 CS dynamic	**EVLMSESS2EDL**	•	
EV Charging Expert Upgrade dynamic from 15 CS to 100 CS	**EVLMSEDS2EDL**	•	•
EV Charging Expert Upgrade from 50 CS static to 50 CS dynamic	**EVLMSESM2EDM**	•	
EV Charging Expert Upgrade static 50 CS to dynamic 100 CS	**EVLMSESM2EDL**	•	
EV Charging Expert Upgrade dynamic from 50 CS to 100 CS	**EVLMSEDM2EDL**	•	•

Firmware version 5 and lower – Options per licence

		EcoStruxure EV Charging Expert with Static mode (dynamic load management with STATIC current setpoint)		EcoStruxure EV Charging Expert with Dynamic and Static modes (dynamic load management with DYNAMIC current setpoint, or STATIC current setpoint)			
References		**HMIBSCEA53D1ESS**	**HMIBSCEA53D1ESM**	**HMIBSCEA53D1EDB**	**HMIBSCEA53D1EDS**	**HMIBSCEA53D1EDM**	**HMIBSCEA53D1EDL**
Features							
Capacity	Number of EVlink charging stations	15	50	5	15	50	100
Multi zone	Maximum number of zones	1	10	2	2	10	20
	Maximum number of zone levels	1	4	2	2	4	4

Firmware version 6 and later – Options per licence

		EcoStruxure EV Charging Expert with Static mode (dynamic load management with STATIC current setpoint)		EcoStruxure EV Charging Expert with Dynamic and Static modes (dynamic load management with DYNAMIC current setpoint, or STATIC current setpoint)			
References		**HMIBSCEA53D1ESS**	**HMIBSCEA53D1ESM**	**HMIBSCEA53D1EDB**	**HMIBSCEA53D1EDS**	**HMIBSCEA53D1EDM**	**HMIBSCEA53D1EDL**
Features							
Capacity	Number of EVlink charging stations	In case of a firmware upgrade to Version 6, automatically migrated to **HMIBSCEA53D1EDS**	In case of a firmware upgrade to Version 6, automatically migrated to **HMIBSCEA53D1EDM**	5	15	50	100
Multi zone	Maximum number of zones			20			
	Maximum number of zone levels			4			

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

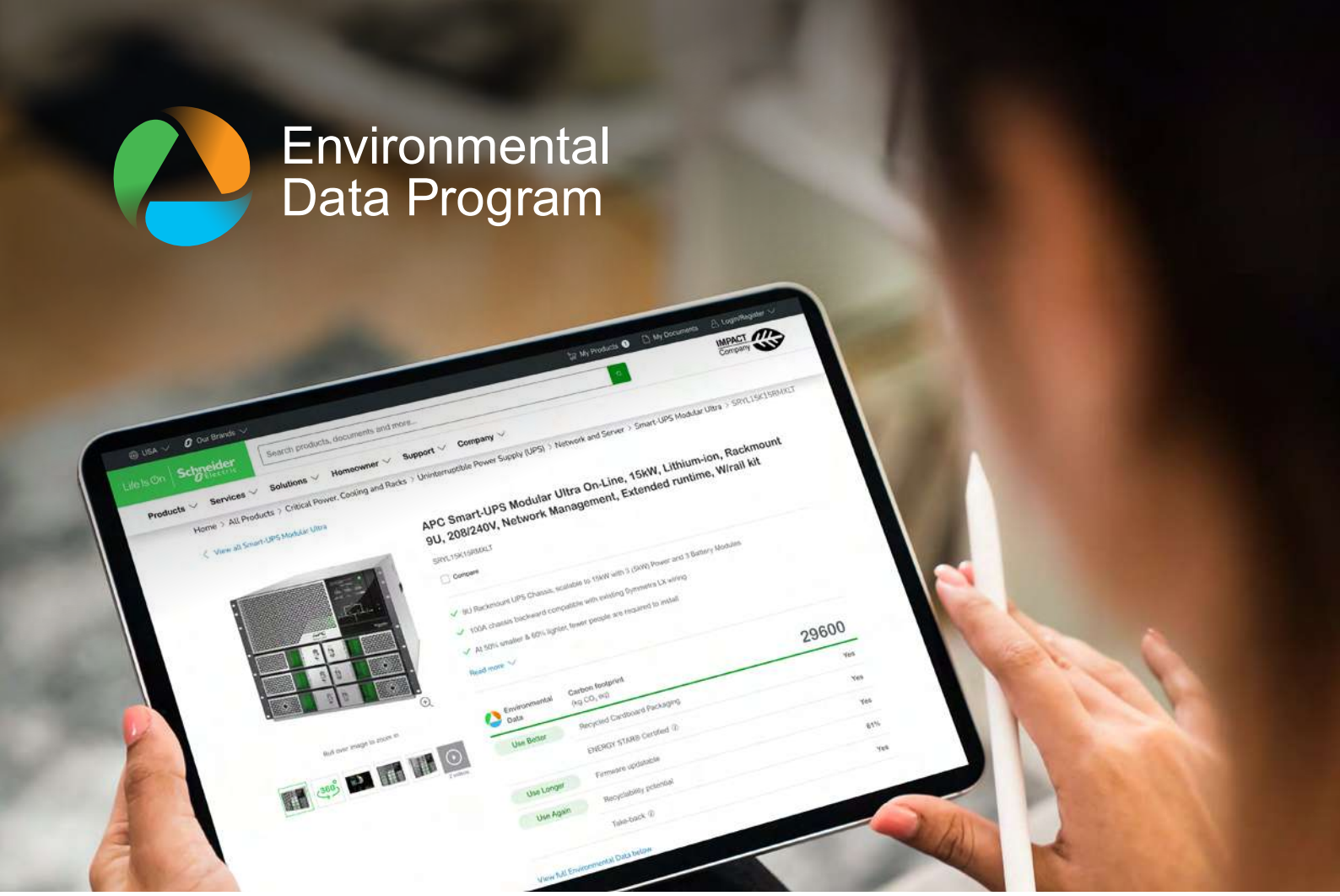
Bibliography

Technical documentation

Characteristics		References[1]
Schneider Charge		
Schneider Charge Data sheet	EN	**998-22833864**
Schneider Charge Installation guide	EN / FR / DE / ES / IT	**PKR9096301**
Schneider Charge Commissioning guide	EN / FR / DE / ES / IT	**PKR9545101**
Schneider Charge Pro		
Installation Guide	EN / FR	**BRU2882901**
Pedestal installation Guide	EN / FR	**BRU4438903**
OCPP Protocol Guidelines	EN	**BRU5587800**
Cybersecurity Guide	EN / FR	**BRU5883000**
Peak Controllers		
Anti-tripping module 1P - Installation guide	EN / FR / ES / IT	**BQT5080501**
Anti-tripping module 3P - Installation guide	EN / FR / DE / ES / IT	**BQT5080401**
EVlink Pro AC range		
Installation Guide[1]	EN / FR	**NNZ1940301-00**
Instruction Guide EVlink Pro AC Metal WM1CP[1]	EN / FR	**JYT24399**
Instruction Guide EVlink Pro AC Metal FS1CP[1]	EN / FR	**JYT24398**
Instruction Guide EVlink Pro AC Metal FS2CP[1]	EN / FR	**JYT24397**
EVlink Pro AC troubleshooting guide	EN	**JYT6692101**
Technical specifications OCPP connectivity guide	EN	**GEX1969200**
EVlink Pro AC spare parts replacement	EN	**GEX2273501**
EVlink Pro AC spare parts replacement for standards	EN	**GEX4591201**
Technical specifications MODBUS connectivity guide	EN	**GEX1969300**
EVlink Pro AC Preventive Maintenance guide	EN	**GEX8681300**
EVlink Pro AC Cybersecurity guide	EN	**GEX5261101**
Electrical diagram guide for EVlink Pro AC Metal	EN	**GEX2008002**
EVlink Pro DC range		
EVlink Pro DC 60 Installation Guide[1]	EN	**GEX6836301**
EVlink Pro DC 60 Owner Guide	EN	**GEX6836201**
EVlink Pro DC 120-180 Installation Guide[1]	EN	**GEX4300800**
EVlink Pro DC 120-180 Owner Guide	EN	**GEX4301000**
Technical specifications OCPP connectivity guide	EN	**DOCA0311**
Cyber-security Guide	EN	**DOCA0310**
EcoStruxure™ EV Charging Expert		
Installation Guide	EN	**DOCA0164**
User Guide	EN	**DOCA0163**
Quick Start commissioning Guide	EN	**EVSOLQSC001EN**
eMobility Services		
eMobility Services - Brochure		
EVlink Warranty Extension	EN	**998-21827492**
EVlink Commissioning Service	EN	**998-21950800_B**
EcoStruxure EV Charging Expert Upgrade and Commissioning package	EN	**998-22046477**
eMobility Services - Statement of work		
Warranty Extension	EN	**JYT9348100**
Remote Commissioning	EN	**PKR2869000**
On-site commissioning for AC infrastructure	EN	**GEX5781900**
Service Plan for DC infrastructure	EN	**DOCA0309**
On-site commissioning for DC infrastructure	EN	**DOCA0308**

[1] Delivered with the product

Environmental Data Program

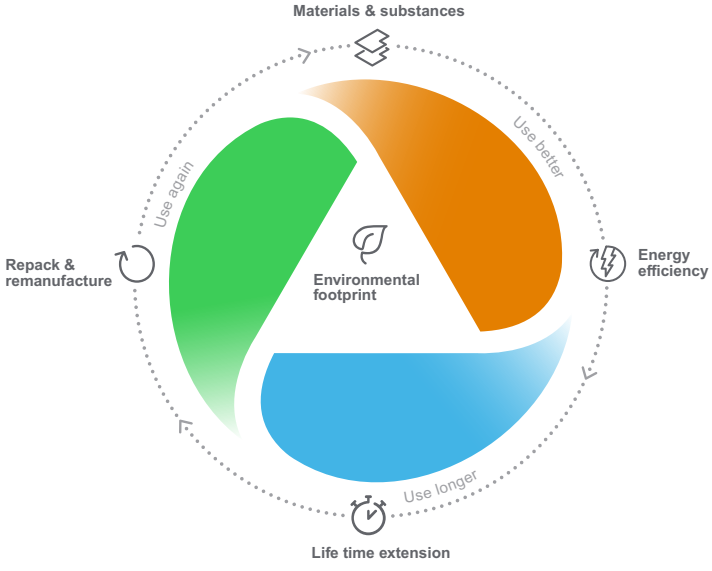


Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.
Use Longer: How a product's life time can be effectively extended in terms of repairability and updatability.
Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.

Learn more about the Environmental Data Program

Life Is On | Schneider Electric

Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

RCS Nanterre 542 048 574
Capital social 2 268 274 220 €
www.se.com

01/2025
E-MOBILITY-EVL-CAT04_EN