



eMobility solutions

Building the future of all-electric mobility

Electric vehicle charging solutions
Catalog 2023

se.com/emobility

Life Is On

Schneider
Electric

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Green Premium™

Schneider Electric's commitment to deliver sustainable performance, by design.



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACH substance information
- Industry leading # of PEP's*
- Circularity instructions



Learn more
about
**Green
Premium**

Green Premium label promises compliance with the latest regulations, transparency on environmental impacts as well as circular and low-CO₂ products.

CO₂ and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO₂ emissions.

Cost of ownership optimization through... Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through... Well-being Performance

Green Premium products are RoHS and REACH compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

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*Available soon in selected European countries

eMobility solutions



Extensive network of
certified partners



Industry standards
compliance



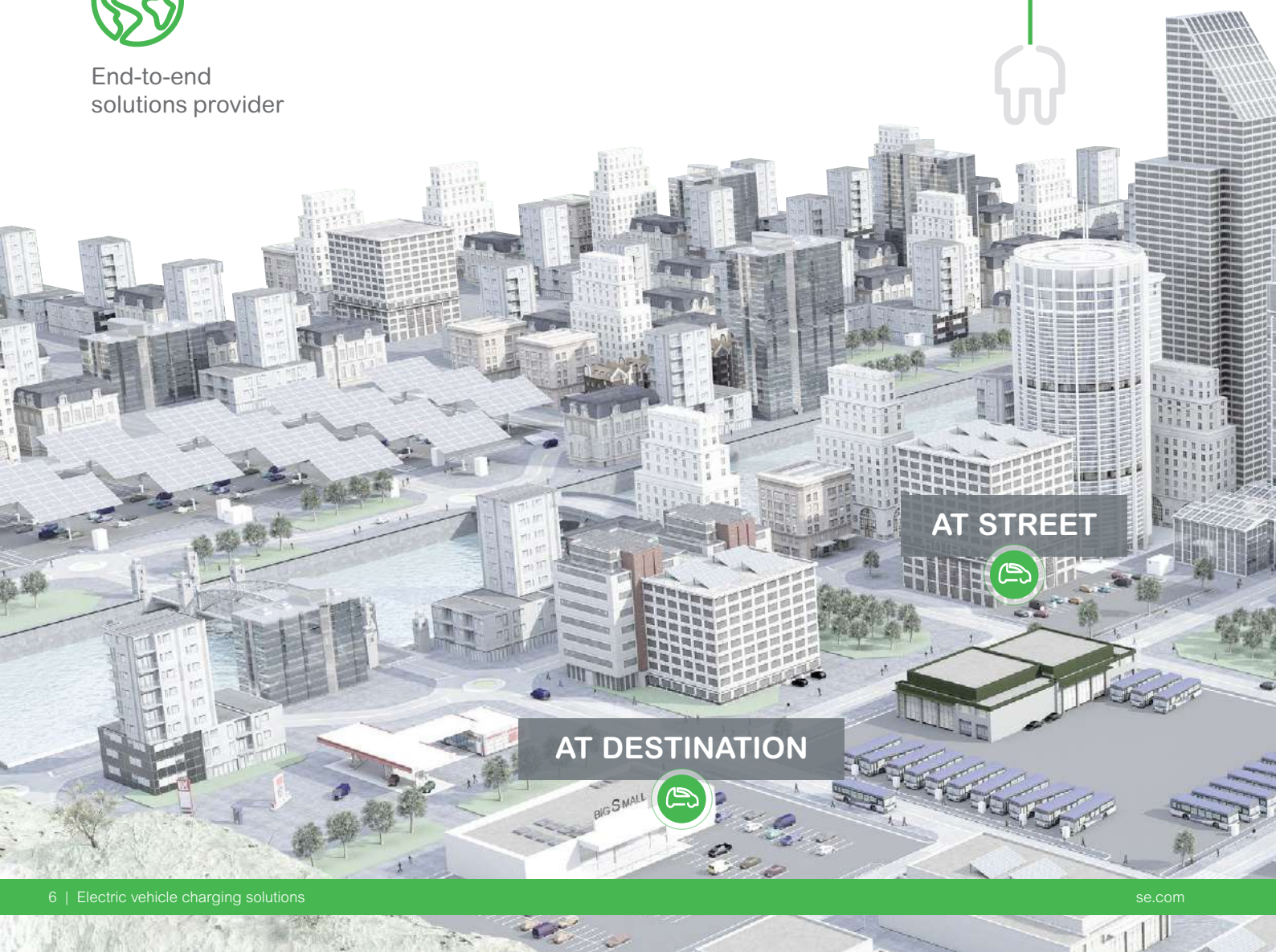
Worldwide
customer support



End-to-end
solutions provider

Building the mobility of the future

SCALABILITY AND RESILIENCY
EFFICIENCY AND SUSTAINABILITY
CONNECTIVITY AND INTEROPERABILITY
CYBERSECURITY



AT STREET

AT DESTINATION



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.



Homes



Buildings



Fleets

AT PUBLIC



AT WORK



AT HOME



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

FLEETS





eMobility for Single Family Homes

Charge your car with
a smart End-to-End solution

”

I want to charge my car without tripping my house, while optimizing my comfort and keeping my energy consumption under control.

”

EVlink Home Smart provides homeowners with an easy smart charging experience.

Charge at the right time, with the option to select the most suitable charging mode, while optimizing energy usage and avoiding power overruns.



Watch
the video



➤ EVlink Home Smart

Wall-mounted charging station

Convenient, compliant and attractive design:

- A full range of products: T2 socket, with or without attached cable, 3 power ranges available (Certification: CE 61851-1 ed 3.0)
- Built-in internal protection: RDC-DD 6 mA
- Communication protocol OCPP1.6J
- User-friendly LED status indicator



➤ Anti-Tripping Module

Power load management

- Continuously adapt the power supplied to charge the car, taking home consumption into account
- No need for an additional communication cable (Power Line Communication)



➤ Wiser Mobile App

Connected technology

- Remote control and scheduling of EV charging
- Bill optimization based on ToU tariff
- Energy consumption monitoring

> Customer benefits



► For the homeowner:

- No disruption to lifestyle while the installation is running
- Optimized charging sessions
- "Green charging" mode
- Energy consumption under control
- EV charging schedule to avoid peak tariffs
- Competitive and certified offer



► For home builders:

- Benefit of Schneider Electric's reputable network of certified partners
- Competitive and certified offer



► For electricians:

- Reduced installation time
- Schneider Electric certification and training
- Products available from distributors

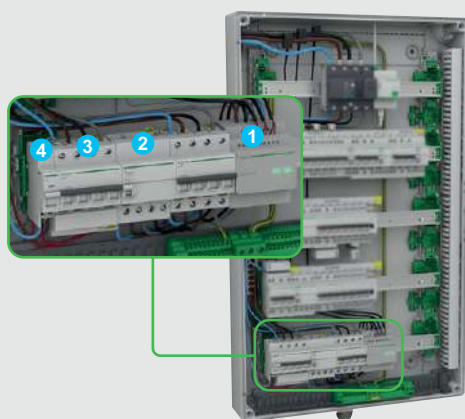


► For distributors:

- Competitive offer to become the One-Stop Shop for EVs
- Entire application sales with strong market demand

Smart charging End-to-End Solution

Protect the electrical installation



- 1 EVlink anti-tripping module: 1- or 3-phase peak controller
- 2 RCD Type A-SI to detect 30 mA AC residual current
- 3 MCB to provide charging station cable overload protection
- 4 MNx: undervoltage release tripping unit (IEC 61851-1 ed.3)

RCBO (option): residual current breaker with overcurrent protection

Charge your EV



EVlink Home Smart

Optimize your energy consumption



Power: from 3.7 to 11 kW



Commission
easily with
eSetup



Operate
with Wiser

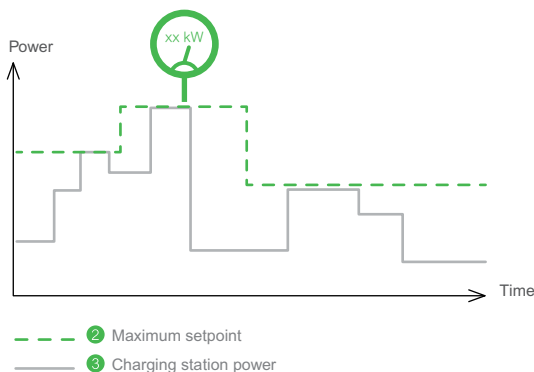


eMobility for new residential buildings

Design a scalable and service-ready infrastructure

“ I want to provide an EV charging infrastructure which is compliant with local regulations, scalable, and service-ready for new residential buildings. ”

EcoStruxure for eMobility is a solution ready for the sustainable and efficient buildings of the future. It offers multi-dwelling owners and tenants a user-friendly charging experience with optimized power supply and accurate consumption metering per user for allocation of costs. It is an open, standards-compliant, and service-ready solution.



› EcoStruxure EV Charging Expert

Load Management System

- Distribution of available power for all charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of any EV charging station based on an open protocol (OCPP 1.6-J)

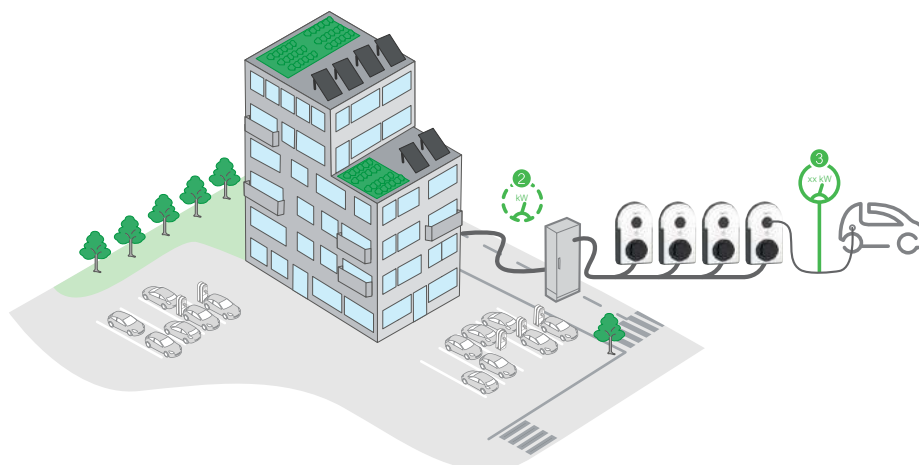


Watch the video

› EVlink Pro AC

Connected EV charging station

- Robust design that is rated IP55/IK10, for outdoor or indoor installations
- Embedded protection for power distribution (RCD; iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant:
 - Precision metering (MID meters)
 - Interoperability with supervision solutions (OCPP 1.6-J)
 - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 ready)



> Customer benefits



► For home builders designing the EV infrastructure:

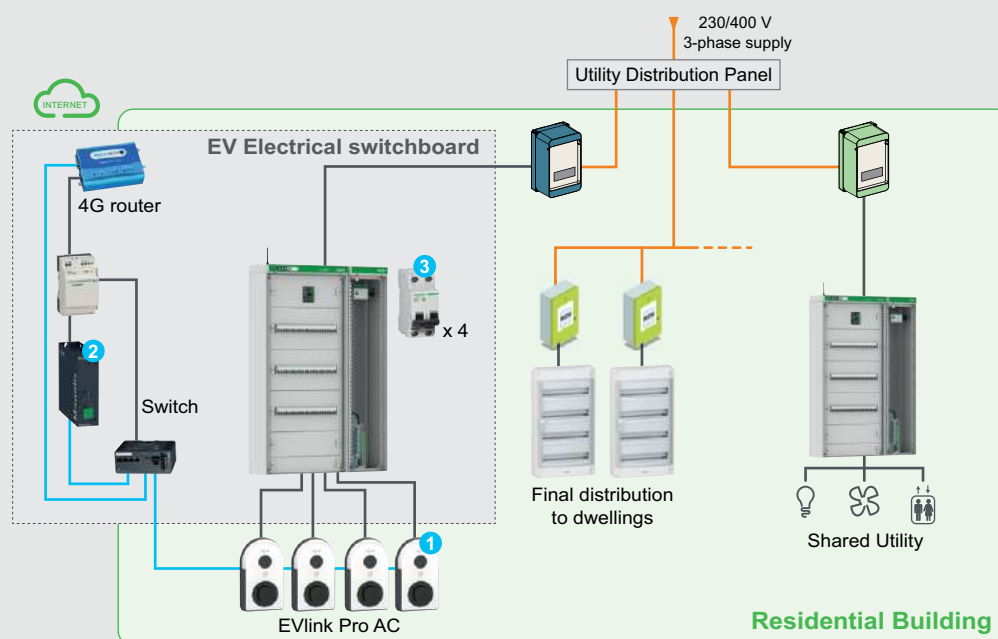
- Compliant with local regulations
- Scalable and flexible design
- Open and ready for operations
- Minimized property development costs



► For the electrical contractor installing and commissioning the EV infrastructure:

- Reduced installation time
- Guided commissioning for basic or larger infrastructure
- Schneider Electric Partner certification and training program

New residential building solution ready for operations



The eMobility solution is open to Schneider Electric or third-party supervision solutions.

- Private network
- Utility supply network
- Ethernet network
- ① Charging stations: EVlink Pro AC
- ② Load Management System: EcoStruxure EV Charging Expert
- ③ Short-circuit protection: Acti9 MCB 40 A (one per charging station)



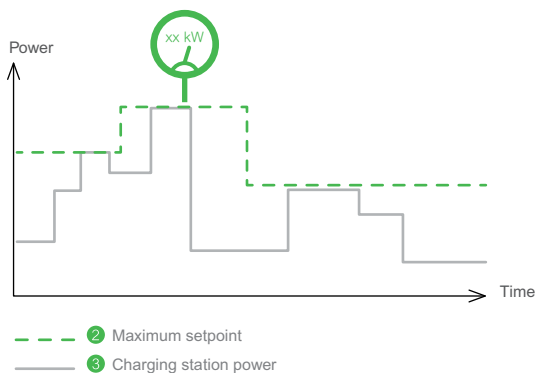
eMobility for single tertiary sites

Get started with a scalable charging solution
that will boost your brand image

”

I want to offer my employees the opportunity to charge at work while leveraging new charging services I can offer to my customers.”

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.



➤ EcoStruxure EV Charging Expert

Load Management System

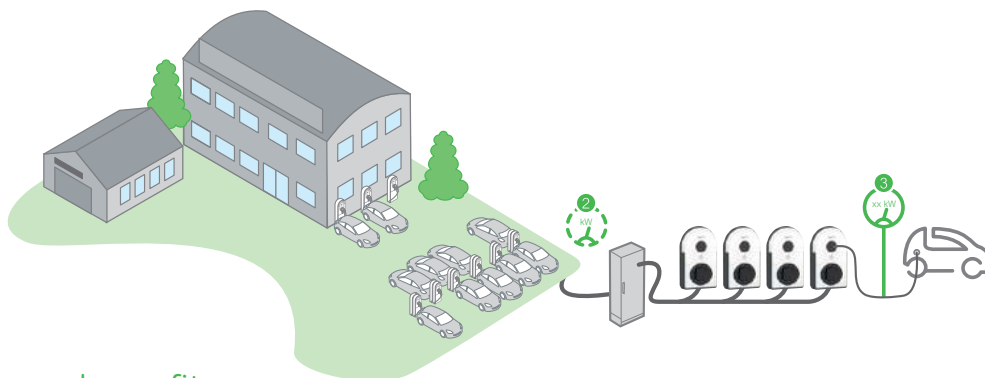
- Dynamic distribution of available power among charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of EV charging stations based on an open protocol (OCPP 1.6-J)



➤ 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)



> Customer benefits



► For building owners:

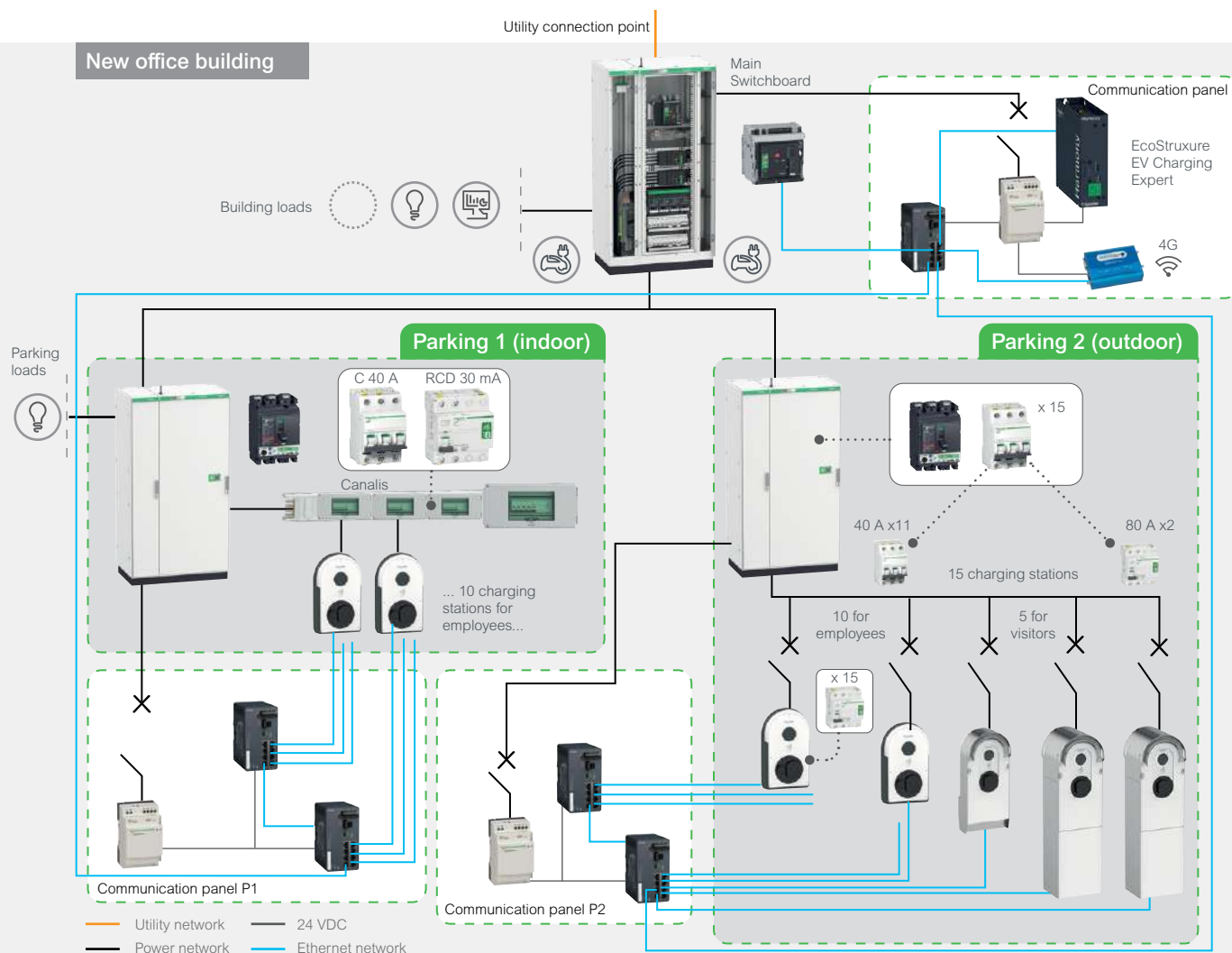
- Demonstration of sustainability commitments
- Improved employee satisfaction and customer loyalty
- Optimized power availability
- Scalable infrastructure
- In-house operations or delegated to external charge point operator



► For electrical contractors:

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

Charging infrastructure for employees or customers driving EVs





eMobility for charging infrastructure at work

Integrate a complete smart EV charging solution and optimize power availability at your sites

“ Installing an EV charging solution will boost my employee loyalty and help me meet sustainability targets while increasing the value of my property. ”

EcoStruxure for eMobility lets building and business owners seamlessly integrate electric mobility at their sites without compromising their power supply. They comply with local regulations while offering a futureproof and convenient solution to electric vehicle drivers at their sites.

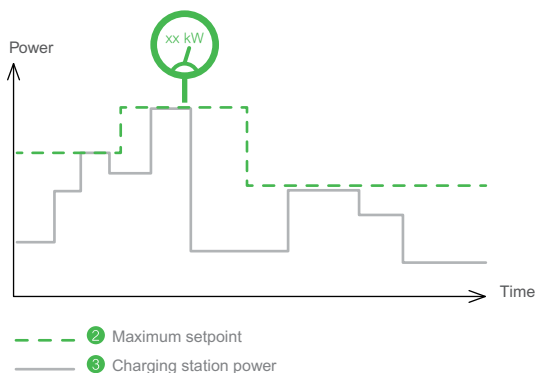


➤ EcoStruxure™ EV Advisor*

Multi-site remote supervision for EV charging infrastructures

- EV driver profile management
- Remote monitoring, control and troubleshooting
- Custom tariff setting
- Analytics and API capability

*Available soon in selected European countries



➤ EcoStruxure™ EV Charging Expert

Load Management System

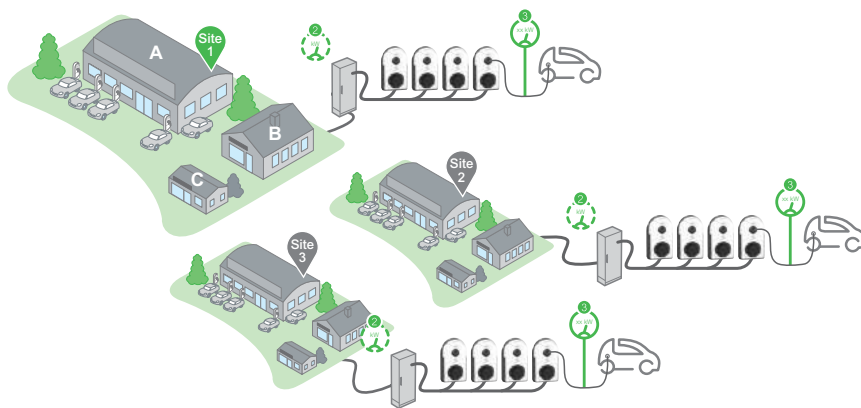
- Dynamic distribution of available power among charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of EV charging stations based on an open protocol (OCPP 1.6-J)



➤ EVlink Pro AC

Connected EV charging station

- Robust IP55/IK10 rated design for outdoor or indoor installations
- Embedded protection for power distribution (RCD; iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant:
 - Precision metering (MID meters)
 - Interoperability with supervision solutions (OCPP 1.6-J)
 - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 ready)



> Customer benefits



► For building owners:

- Demonstration of sustainability commitments
- Improved employee loyalty
- Minimized upfront costs
- Optimized power availability and reduced energy costs
- Multiple user profiles



► For operators:

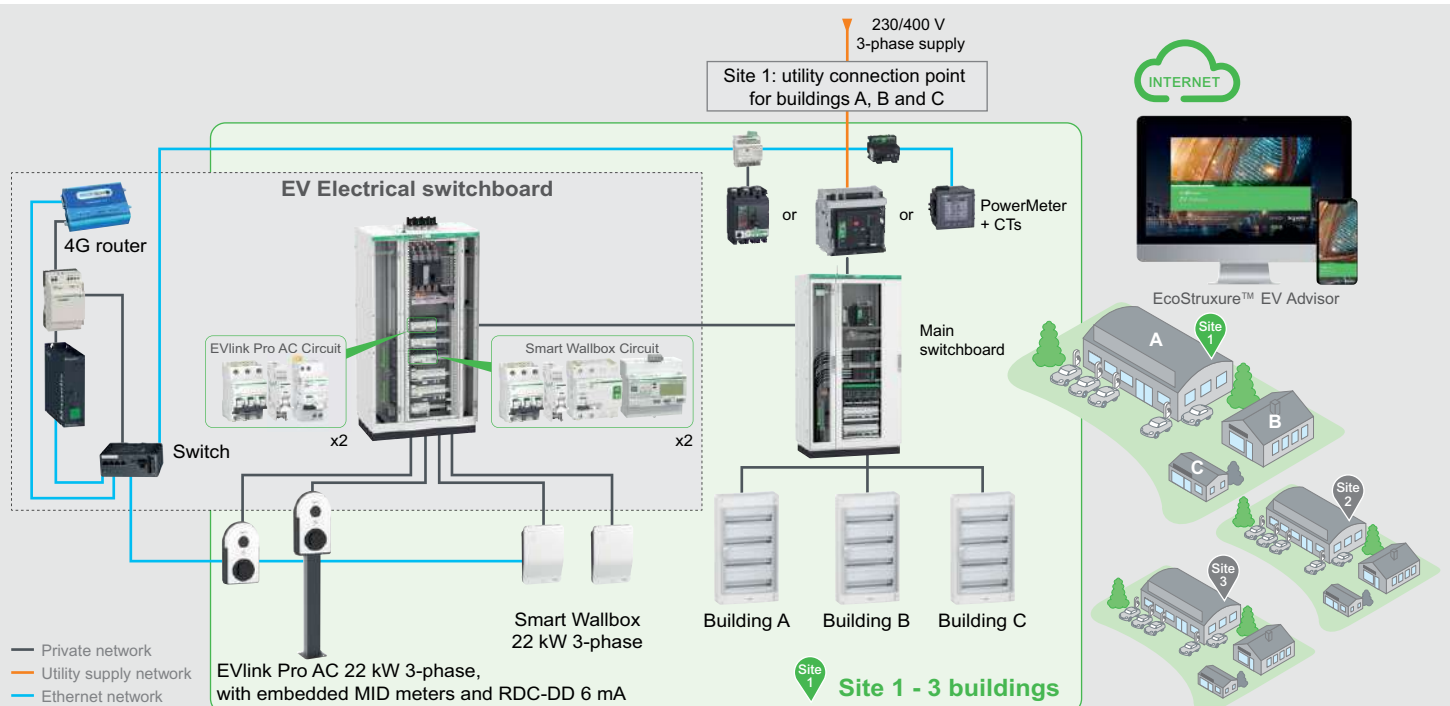
- Service offer: charge point availability, identification of issues
- Optimized operations thanks to remote diagnosis features and shorter interventions



► For electrical contractors:

- Reduced installation time
- Guided commissioning for basic or large scale infrastructure
- Schneider Electric Partner certification and training program

New Building Solution for Charging at Work





Transition smoothly to an EV fleet and take the road to a more sustainable future

”

I want to electrify my fleet with minimal impact on my operations while investing wisely in a scalable EV charging infrastructure. ”

The EcoStruxure™ for Fleet application enables seamless integration of the electric vehicle charging infrastructure at home, at work and in transit. The solution enables Fleet Managers to optimize their total cost of ownership while increasing employee satisfaction.

➤ 1• Design the electrification journey

Consulting services

- Digital diagnostic or in-person analysis
- TCO, ROI, CO₂ emission impact evaluation
- Rollout plan for fleet electrification

➤ 2• Implement the EV infrastructure

Project management through to commissioning

- Technical definition and infrastructure design
- Electrical distribution and charging station commissioning
- Test reports

Connected EVlink Pro AC charging station

- Intuitive user interfaces
- RFID/NFC reader
- Robust design for outdoor or indoor installations
- Wall-mounted or floor-standing
- Interoperability with supervision systems (OCPP 1.6-J)
- IEC 61851 Ed.3, ISO 15118 ready



EVlink Pro AC
7.4-22 kW

➤ 3• Operate easily with comprehensive services

EcoStruxure™ EV Advisor*

Remote supervision

- Remote monitoring, control, and trouble-shooting
- EV drivers' profile management
- Custom tariff setting (per site, user, schedule)
- Analytics and API capabilities

Services

- Start/Stop charging sessions
- Search for and book a charger
- Personal data management
- Charge at home kWh-price setting
- Help and hotline services
- Ad-hoc support and maintenance
- Continuous optimization (renewable energy, microgrid solution, cybersecurity enhancement)
- Access to public charge points



*Available soon in selected European countries

➤ Customer benefits



- ▶ For building owners and facility managers:
 - Reduced development and installation costs
 - Scalable and flexible design
 - Open and ready for operation services
 - Optimized power availability and reduced energy costs
 - Compliant with local regulations



- ▶ For fleet managers wanting to electrify their company fleet:
 - Optimized CAPEX and ROI
 - Lower Total Cost of Ownership
 - Supported decision making and change-management processes
 - Tracked usage for cost and CO₂ emission reduction
 - Scale the EV fleet to your business needs



- ▶ For EV fleet drivers:
 - Friendly user experience thanks to RFID card, dedicated driver's App, online and hotline support
 - Automated reimbursement and billing management
 - Quick and easy installation at home

End-to-end solution for fleets meeting sustainability and budget requirements

STEP 1: CONSULTANCY SERVICES

Analyze, plan, design and quote

Scalable and tailored support from small to large fleets

- Public information platform



- Online consulting tools



- Expert consultants



STEP 2: INFRASTRUCTURE IMPLEMENTATION

Build and install

Project and processes management

- Follow-up and coordination of project implementation through to commissioning
- Coordination of deliveries and suppliers
- Onboarding of chargers
- Test reports



Technical and infrastructure design

- Remote or on-site analysis
- Design of the infrastructure and architecture of the solution
- BOM and supplier definition



EcoStruxure™ for eMobility

APPS, ANALYTICS AND SERVICES

EDGE-CONTROL OFFERS

CONNECTED PRODUCTS

Schneider Electric digital innovation, at every level

STEP 3: OPERATION AND SERVICES

Operate and optimize investments

Efficient charge point operation

- Charge point operation and monitoring
- RFID/NFC reader and user management
- Customer services: support, trouble-shooting, maintenance and infrastructure enhancements
- Comprehensive charging experience



AT HOME



AT WORK



AT PUBLIC

Smart Charging solution



”

Smart Charging refers to a system which is able to monitor, manage and eventually control the use of EV charging devices with the aim of optimizing energy consumption.

”

As the adoption of EVs grows worldwide at a phenomenal rate, the estimates from BloombergNEF⁽¹⁾ are that 30% of vehicles are expected to be electric by 2030.

The expansion of the charging infrastructure will add complexity to the grids and will push the existing power distribution networks beyond their capacity, thus requiring expensive infrastructure upgrades.

To understand the need of **Smart Charging**, let's first look at some of the existing scenarios for EV charging setups: In a scenario without any energy / load management setup, all plugged-in EVs start to charge simultaneously and at max power. The additional energy of EV charging on top of the normal building loads will result in overload and possibly exceed the Maximum Import Capacity (MIC). This could result in high fines or penalties from the grid operator.

To avoid the above scenario, standard load management practices are already adopted in most setups.

[\(1\) BloombergNEF - Electric Vehicle Outlook 2022](#)

Load management can be static or dynamic, meaning that a defined threshold (power limit) is set and only the remaining available power for EV charging is distributed among the connected EVs. Also, EVs can be charged at pre-defined times to optimize off peak electricity tariffs. These standard load management practices are sometimes effective but the growing adoption of EVs, which has increased the impact on the existing power distribution systems, provides a lot of scope to further optimize the EV charging infrastructure.

Smart Charging goes further than a standard load management setup.

It is an intelligent system with proactive logic to schedule and forecast, and therefore provides an optimal charging solution.

In a nutshell, each EV plugged into the charging station charges with a specific charging profile.

It not only takes into the account the needs of the EV driver (eg. Departure time etc.) but also respects the power limits of the entire installation.

On top of this, a smart charging system gives significant OPEX savings to the infrastructure owner by optimizing the locally generated renewable energy (eg. PV installation on the building) and using the dynamic electricity tariffs for cost efficient charging.

Benefits of Smart Charging

User requirement		Accommodate individual needs of EV drivers. For example, departure time, tariff preferences.
Infrastructure reliability		Integrate EV charging while keeping the MV/LV installations intact.
Dynamic energy tariffs		Savings in OPEX through price negotiation from multiple energy markets to balance supply and demand.
Renewable energy self consumption		Optimize self consumption of locally generated power. For example, PV installation on the building.



Learn more about
Smart charging solutions

A smart charging solution is able to adapt, the charging strategy to both the needs of the user of the EV and the power grid in an intelligent and flexible way. Thus, a smart charging system will allow flexibility, optimized energy consumption, infrastructure scalability and cost efficiency.

eMobility solutions

Panorama per Applications



HOMES

Single Family Home



APPS,
ANALYTICS
AND SERVICES

Wiser



BUILDINGS

> Multifamily Home



eMobility Services

EcoStruxure™
EV Advisor*

EDGE
CONTROL

EVlink Home anti-tripping system



EcoStruxure™
EV Charging Expert

CONNECTED
PRODUCT

EVlink Home
EVlink Home Smart



EVlink Pro AC
EVlink Pro AC Metal



Electrical
distribution
for eMobility
From grid to EV



iMnx
Undervoltage
release tripping unit



Acti9 A-Si type
Earth leakage
protection



Canalis busbar trunking system
EVlink terminal distribution kit

*Available soon in selected European countries



FLEETS

> At work



> At destination



Everywhere



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

Remote supervision for installers, fleet operators, and charge point operators, to easily commission, monitor, and control the EV charging infrastructure.



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



Load
Management
System



User interface

EVlink Pro AC EVlink Pro AC Metal



EVlink Pro AC EVlink Pro AC Metal



iMnx
Undervoltage
release tripping unit



iEM
Energy Meters



Acti9 B SI type
Earth leakage protection



Acti9 A-SI type
Earth leakage protection





EVlink™ Home and Home Smart

Electric Vehicle charging stations and accessories

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Range accessories	p. 28
EVlink™ Home anti-tripping module	p. 29
Cables for EVlink™ Home and Pro AC ranges.....	p. 44



Characteristics



Certification

EVlink Home has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards

EN 61851-1 Ed3.0 (2019)



> ROHS compliant
> Reach compliant
> EoL: End Of Life Process
> Product Environmental Profile compliant

Charging station offer

- Charging power: 3.7 kW - 7.4 kW single-phase and 11 kW three-phase power supply
- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with or without shutter
- Attached cable with T2 connector

Power supply network

- 230V +/- 10% single-phase – 50 Hz +/- 10% for 3.7 and 7.4 kW charging stations
- 400V +/- 10% three-phase – 50 Hz +/- 10% for 11 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S

Mechanical and environmental characteristics

- Ingress protection code: IP55 attached cable version; IP54 socket version
- Impact protection code: IK10
- Operating temperature: -30°C to +50°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 282*409*148 mm / 11*16*6 in. (without cable)
- Weight: 3.7 – 7.4 kW approx. 4.5 kg / 11 kW approx. 5.6 kg

Easy to install and commission

- Wall mounting

Energy Management

- Exclusive energy management options: real-time maximum charging current control (with the addition of an external anti-tripping system)
- Communication Power Line Carrier with Home Anti-tripping system

Access control modes

- Free access

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center
- Additional 1 or 3 year Warranty Extension

Charging station references

> EVlink Home



EVH4S03N2

EVlink Home					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
With socket outlet					
EVH4S03N2	1PH	T2	3.7	16 A	with 6 mA DC filter
EVH4S07N2	1PH	T2	7.4	32 A	with 6 mA DC filter
EVH4S11N2	3PH	T2	11	16 A	with 6 mA DC filter
T2 with shutters					
EVH4S03N4	1PH	T2S	3.7	16 A	with 6 mA DC filter
EVH4S07N4	1PH	T2S	7.4	32 A	with 6 mA DC filter
EVH4S11N4	3PH	T2S	11	16 A	with 6 mA DC filter
With attached 5 m ⁽¹⁾ cable and T2 connector					
EVH4S03NC	1PH	-	3.7	16 A	with 6 mA DC filter
EVH4S07NC	1PH	-	7.4	32 A	with 6 mA DC filter
EVH4S11NC	3PH	-	11	16 A	with 6 mA DC filter

EVlink Home with TIC*					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH4S03N400F	1PH	T2S	3.7	16 A	with RDC-DD filter - TIC
EVH4S07N400F	1PH	T2S	7.4	32 A	with RDC-DD filter - TIC
EVH4S11N400F	3PH	T2S	11	16 A	with RDC-DD filter- TIC

(*) TIC- Anti-tripping and peak hour module connected to the energy meter (Linky), for France only.

> Protections and options with EVlink Home

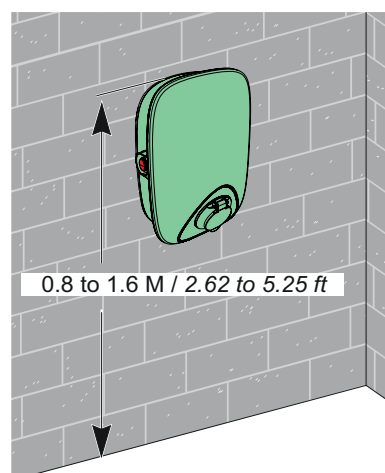
Description			
Charging	Single-phase		Three-phase
Rated Power - Current	3.7 kW - 16 A		11 kW - 16 A
Protection			
Circuit breaker (overcurrent) (1)	20 A Curve C	40 A Curve C	20 A Curve C
RCD (residual current) (1)	30 mA A-SI Type (2)	30 mA A-SI Type (2)	30 mA A-SI Type (2)
Under voltage tripping auxiliary (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.

Practical information



The charging station operates autonomously.
It has dedicated protective devices.

- Installation: by an electrician
- Location: residential, private usage



Watch
the video



Characteristics



Certification

EVlink Home has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards

EN 61851-1 Ed3.0 (2019)



Charging station offer

- Charging power: 3.7 kW - 7.4 kW single-phase and 11 kW three-phase power supply
- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with shutter
- Attached cable with T2 connector

Power supply network

- 230V +/- 10% single-phase – 50 Hz +/- 10% for 3.7 and 7.4 kW charging stations
- 400V +/- 10% three-phase 50 Hz +/- 10% for 11 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S

Mechanical and environmental characteristics

- Ingress protection code: IP55 attached cable version; IP54 socket version
- Impact protection code: IK10
- Operating temperature: -30°C to +50°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 282*409*148 mm / 11*16*6 in. (without cable)
- Weight: 3.7 – 7.4 kW approx. 4.5 kg / 11 kW approx. 5.6 kg

Easy to install and commission

- Wall mounting
- eSetup Smart phone commissioning application (to pair with Home network)

Energy Management

- Energy management exclusive options: real-time maximum charging current control (with the addition of an external anti-tripping system)
- Delayed charging and current limitation can also be controlled by supervision or by the home management system (over OCPP)
- Interface with an external MID energy meter for consumption billing

Versatile Connection

- Communication Power Line Carrier with Home Anti tripping system
- OCCP 1.6J
- Wi-Fi and Ethernet RJ45

Smart Phone application

- Phone application to perform charge scheduling, and monitor charge consumption and the carbon footprint
- Interoperable with Schneider Electric Home Energy Management system to optimize home consumption.

Access control modes

- Free access

Services offer

- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center
- Additional: 1 or 3 year Warranty Extension

Charging station references

EVlink Home Smart



EVH4A03N2

EVlink Home Smart					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
With socket outlet					
EVH4A03N2	1PH	T2	3.7	16 A	with 6 mA DC filter
EVH4A07N2	1PH	T2	7.4	32 A	with 6 mA DC filter
EVH4A11N2	3PH	T2	11	16 A	with 6 mA DC filter
T2 with shutters					
EVH4A03N4	1PH	T2S	3.7	16 A	with 6 mA DC filter
EVH4A07N4	1PH	T2S	7.4	32 A	with 6 mA DC filter
EVH4A11N4	3PH	T2S	11	16 A	with 6 mA DC filter
With attached 5 m ⁽¹⁾ cable and T2 connector					
EVH4A03NC	1PH	-	3.7	16 A	with 6 mA DC filter
EVH4A07NC	1PH	-	7.4	32 A	with 6 mA DC filter
EVH4A11NC	3PH	-	11	16 A	with 6 mA DC filter

EVlink Home Smart with TIC*					
References	Number of phases	Type of socket	Power kW	Output current	Embedded protection
T2 with shutters					
EVH4A03N400F	1PH	T2S	3.7	16 A	with RDC-DD filter - TIC
EVH4A07N400F	1PH	T2S	7.4	32 A	with RDC-DD filter - TIC
EVH4A11N400F	3PH	T2S	11	16 A	with RDC-DD filter - TIC

(*) TIC- Anti-tripping module connected to the energy meter (Linky), for France only.

Protection and options with EVlink Home Smart

Description		
Charging	Single-phase	Three-phase
Rated Power - Current	3.7 kW - 16 A	7.4 kW - 32 A
Protection		
Circuit breaker (overcurrent) (1)	20 A Curve C	40 A Curve C
RCD (residual current) (1)	30 mA A-SI Type (2)	30 mA A-SI Type (2)
Under voltage tripping auxiliary (3)(4)	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.

Wiser

A closer look at the Wiser application for EV owners



Create your own charging experience

Easy to sign up:

- Download Wiser on Appstore and Google Store
- Scan your charger QR code to pair your charger
- Select your car and your DSO

Power Management:

- Adapt charge to available power

Schedule and adapt:

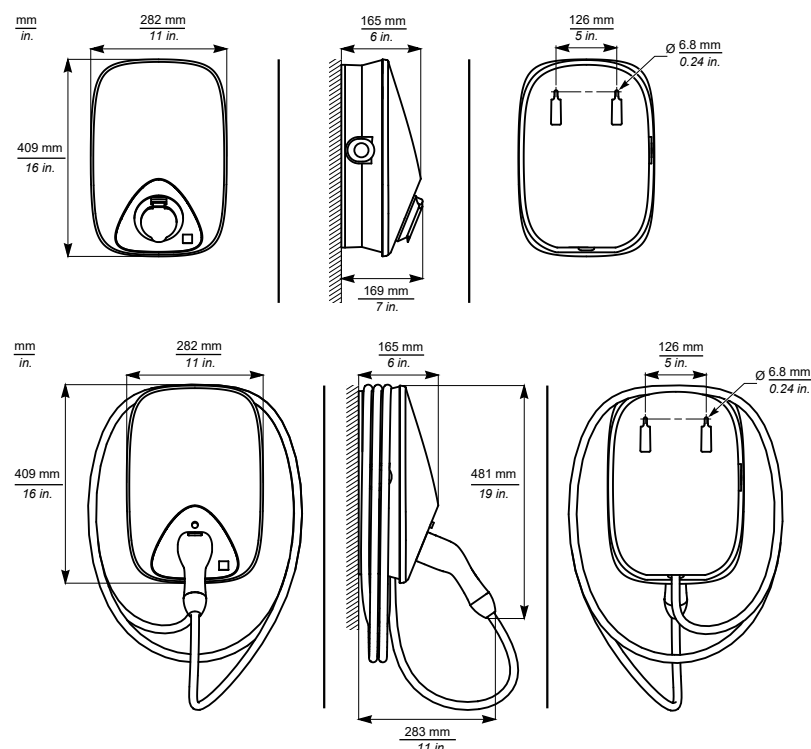
- Plan your charging time
- Adjust your energy mix
- Start the charge, and travel

History:

- Track your charging sessions and better understand the energy consumption related to your EV.

Range accessories

➤ Charging stations dimensions



With socket outlets

≈ 4.5 kg (9.92 lb) - T2/T2S - 3.7 / 7.4 kW

≈ 5.6 kg (12.34 lb) - T2/T2S - 11 kW

With attached cable

≈ 8.8 kg (15.43 lb) - 3.7 / 7.4 kW

≈ 9.9 kg (17.63 lb) - 11 kW

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

Additional information

Charging station technical document	Language	References
EVlink Home Installation Guide (1)	EN / FR / ES / DE	JYT6393700-00
EVlink Home Smart Installation Guide (1)	EN / FR / ES / DE	Available September 2022
EVlink Home anti-tripping system 1P User Manual (1)	EN / FR / ES / DE	JYT9298700
EVlink Home anti-tripping system 3P User Manual (1)	EN / FR / DE	JYT4921902

eSetup is an application for installers and electricians to commission EVlink Pro AC, EVlink Home Smart, Wiser and Facility Expert SB products from Schneider Electric. It helps save time on installation and commissioning: everything can be done with an app and simple interface.

Get a charge details report and maintenance report from the app.



(1) Delivered with the product.

To download the above documents, search by reference on www.se.com

EVlink™ Home anti-tripping module



Characteristics



1-phase Universal Peak
Controller: EVA1HPC1

1-phase High Power
Peak Controller:
EVA2HPC1

3-phase Universal Peak
Controller: EVA1HPC3

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 by comparing the utility power limit and the home consumption gathered by a current transformer positioned on the bottom of the main circuit breaker.

Power supply network and electrical characteristics

- 220/230 V (+/- 10%) 50 Hz (+/- 10%)
- Rated power 4W
- Overvoltage category: III, Pollution degree: 2
- Insulation degree: reinforced insulation
- Sampling current range: AC 1 to 100 A / intervals of 1 second

Settings

- Possible max current value settings: 3P up to 50 A, 1P up to 100 A

Communication

- Communication Power Line Carrier with EVlink Home charger
- Sampling current range: AC 1 to 100 A / intervals of 1 second

Mechanical and environmental

- Dimension 70.4 x 93.2 x 68.8 mm
- Weight 196 g
- Mounting type: Top-hat rail mounting
- Nominal temperature -30°C to +50°C

Standards

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



EVlink™ Pro AC and Pro AC Metal

Electric Vehicle charging stations and accessories

EVlink™ Pro AC	p. 32
Customization	p. 36
EVlink™ Pro AC Metal.....	p. 37
Range accessories and spare parts.....	p. 42
Cables for EVlink™ Home and Pro AC ranges.....	p. 44

EVlink™ Pro AC



Characteristics



Certification

EVlink Pro AC has been certified according to 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
IEC 62955
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 / ZE Ready

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

Diagram of the earthing system

- TT, TN-S, TN-C-S
- IT (Compatible IT on 1-phase - some single-phase vehicles may require the addition of an isolation transformer; Compatible IT with additional isolation transformer on the 3-phase power supply)

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 certified)

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

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⁾
EVB3S07N4A	T2S	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
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
EVB3S07N4EA	T2S	TE	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 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
EVB3S07NCA	Att T2 ⁽⁵⁾	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S07NCAM	Att T2 ⁽⁵⁾	-	32 A	7.4	1PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	Yes
EVB3S11N4A	T2S	-	16 A	11	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S07NC0	Att T2 ⁽⁵⁾	-	32 A	7.1	1PH	RDC-DD 6 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	-	-
EVB3S22N4B	T2S	-	32 A	22	3PH	RCD B EV	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	-	-
EVB3S22NCB	Att T2 ⁽⁵⁾	-	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22N4EA	T2S	TE	32 A	22	3PH	RDC-DD 6 mA + RCD Asi 30 mA	MNx	-	-
EVB3S22N4EB	T2S	TE	32 A	22	3PH	RCD B EV	MNx	-	-
EVB3S22N4FB	T2S	TF	32 A	22	3PH	RCD B EV	MNx	-	-
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
EVB3S22N4	T2S	-	32 A	22	3PH	RDC-DD 6 mA	MNx	-	-
EVB3S22N4E	T2S	TE	32 A	22	3PH	RDC-DD 6 mA	MNx	-	-
EVB3S22N40MR ⁽³⁾	T2S	-	32 A	22	3PH	-	-	RCD B EV+MNx	Yes

(1) Cable for T2S charger available as an accessory

(2) Includes 5 RFID badges

(3) For metallic charger only; 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 / NMI 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.

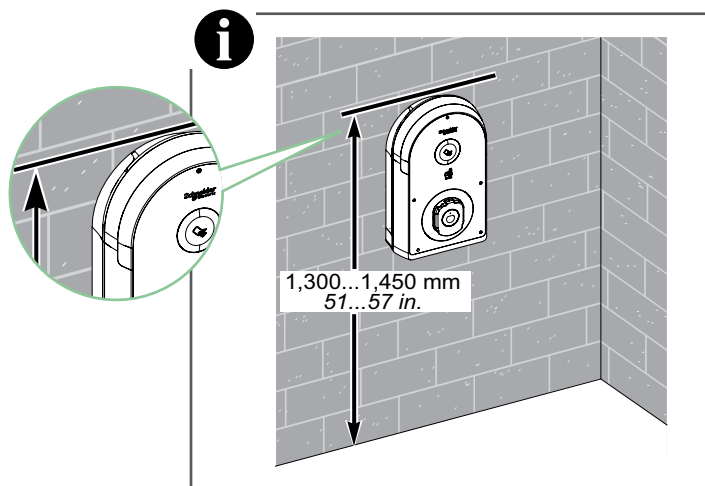
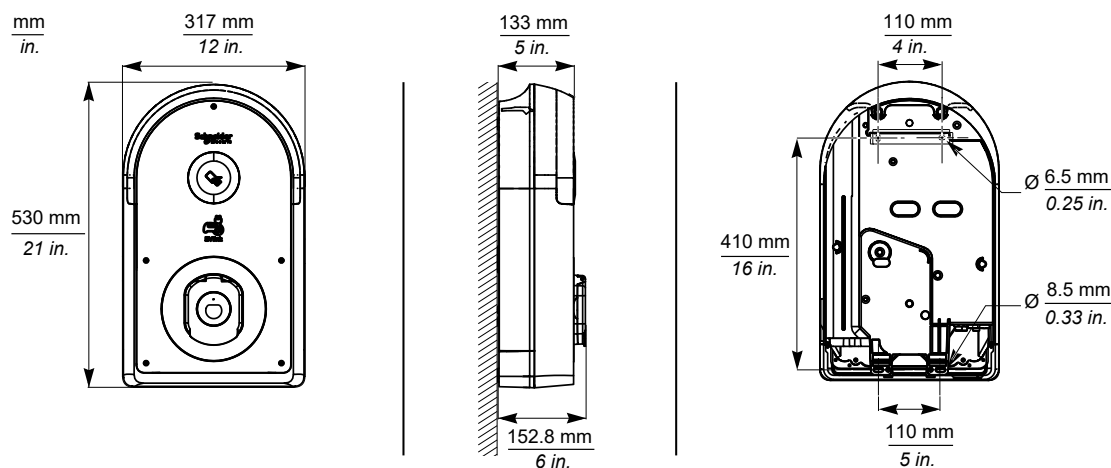
(2) With or without domestic socket.

(3) EVlink Pro AC setting can be changed to "normally closed" if necessary, with the eSetup commissioning app.

Practical information

Practical information

EVlink Pro AC dimensions (mm)



Cable entry from above, below or through the wall



With T2S socket outlet



≈ 7.2 kg (15.43 lb)

With T2 attached cable



≈ 10 kg (22.05 lb)

Additional information

Charging station technical document	Language	References
Installation Guide ⁽¹⁾	EN / FR	NNZ1940301-00
EVlink Pro AC troubleshooting guide ⁽²⁾	EN	JYT6692101
Technical specifications OCPP connectivity guide	EN	GEX1969200
EVlink Pro AC spare parts replacement	EN	GEX2273501
Technical specifications MODBUS connectivity guide	EN	GEX1969300
eSetup is an application for installers and electricians to commission EVlink Pro AC, EVlink Home Smart, Wiser and Facility Expert SB products from Schneider Electric. It helps to save time on installation and commissioning: everything can be done with an app and simple interface. Get a charge details report and maintenance report from the app.		

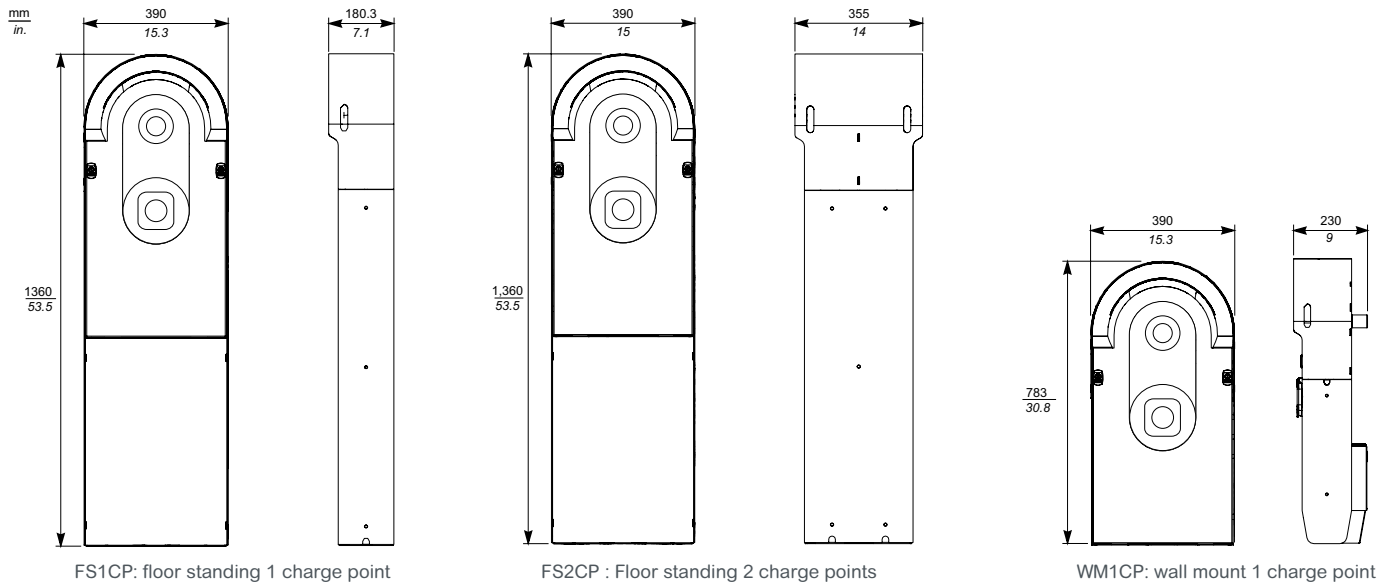
(1) Delivered with the product.

(2) To be downloaded.

To download the above documents, search by reference on www.se.com

Practical information

➤ EVlink Pro AC Metal dimensions (mm)



EVlink Pro AC

 ≈ 7.2 kg (15.43 lb)

Metallic kit

 WM1 CP ~ 26 kg (79.36 lb)

 FS 1CP ~ 40 kg (134.48 lb)

 FS 2CP ~ 61 kg (176.37 lb)



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 mount 1 charge point	50 to 70 min

Additional information

Charging station technical document	Language	References
Installation Guides ⁽¹⁾	EN / FR	Instruction Guide EVlink Pro AC FS2CP: JYT24397 Instruction Guide EVlink Pro AC FS1CP: JYT24398 Instruction Guide EVlink Pro AC WM1CP: JYT24399
EVlink Pro AC trouble shooting guide ⁽²⁾	EN	JYT6692101
Electrical diagram guide	EN	GEX2008002
eSetup commissioning app		

(1) Delivered with the product.
(2) To be downloaded.

To download the above documents, search by reference on www.se.com

Customization

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

➤ EVlink Pro AC

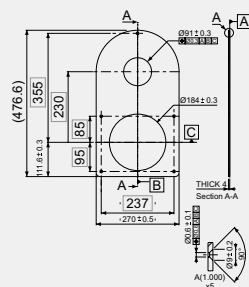


- The front plate can be customized.
- The material is PC BAYLOY 10 UV white 3.

➤ EVlink Pro AC Metal



- The metallic enclosure can be customized.
- The material is electrogalvanized steel class C3.



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



EVlink™ Pro AC Metal



Characteristics



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

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

The EVlink Pro AC Metal design enables any configuration and can be installed by a single 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 charge point or
 - floor standing for 2 charge points
2. An EVlink Pro AC charger to be installed inside the metal enclosure
3. Optional: Kaedra enclosure and / or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

Power supply network

- Same as EVlink Pro AC

Mechanical and environmental characteristics

- Same as EVlink Pro AC
- IP3X Metal enclosure
- IP65 Kaedra enclosure
- IP66 Thalassa enclosure

Access control modes

- Same as EVlink Pro AC

Services

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

EVlink Pro AC Metal selection criteria

➤ 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 mount charger 1 charge point
EVA1RFKS1	EVlink metallic kit for AC floor standing charger 1 charge point
EVA1RFKS2	EVlink metallic kit for AC floor standing charger 2 charge points

➤ EVlink Pro AC with embedded MID meter

A specific EVlink Pro AC commercial reference is available to measure the power consumption of the electric vehicle only:

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

➤ Enclosures

Depending on the protection chosen to be embedded into the EVlink Pro AC Metal charger, the installation of an enclosure (Kaedra or Thalassa) may be necessary.

Refer to the configuration tables on the next pages.



Kaedra 13960

Thalassa EVA1RFKES

Part number	Description
Kaedra 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
13960	T terminals
13444	T/N terminals
Thalassa 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

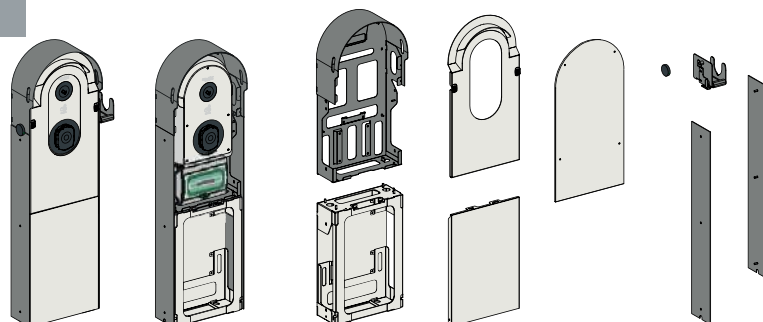
EVlink™ Pro AC Metal



EVlink Pro AC Metal selection criteria

Floor standing 1 charge point
Or Wall mounted 1 charge point

Designed to be handled,
assembled and installed
by only one person.



The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: wall mounted for 1 charge point or floor standing for 1 charge point
- EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure to be mounted inside the metal enclosure for hosting the electrical protection

EVlink Pro AC reference	Embedded in the EVlink Pro AC			To be installed in 1 Kaedra (optional)						To be installed in the distribution board		
	MID meter	MNx	RCD ⁽⁷⁾ per charge point	MNx	RCD ⁽⁷⁾ per charge point	SPD ⁽¹⁾	MCB control circuit ⁽³⁾	RCD control circuit ⁽⁸⁾	Terminal connector 25 mm ²	MCB per charge point	RCD per charge point	SPD ⁽¹⁾
EVB3S22N40MR	1	-	-	1 Supplied ⁽²⁾	1 B-EV Type Supplied ⁽²⁾	-	1	1	-	1 ⁽⁴⁾	-	1
EVB3S22N4A or EVB3S22N4B or EVB3S22NCA or EVB3S22NCB or EVB3S22N4EB or EVB3S22N4FB	-	1	1 B EV or Asi Type	-	-	1	-	-	5 only if SPD	1 ⁽⁴⁾	-	-
EVB3S22N40M or EVB3S22NC0M or EVB3S22N40EM or EVB3S22N40FM	1	-	-	1 Supplied ⁽²⁾	1 Asi Type	1	-	-	-	1 ⁽⁴⁾	-	-
EVB3S22N4 or EVB3S22N4E	-	1	-	-	1 Asi Type	1	-	-	-	1 ⁽⁴⁾	-	-
EVB3S11N4A or EVB3S11NCA	-	1	1 Asi Type	-	-	1	-	-	5 only if SPD	1 ⁽⁵⁾	-	-
EVB3S11N4FB	-	1	1 B-EV Type	-	-	1	-	-	5 only if SPD	1 ⁽⁵⁾	-	-
EVB3S07N4A or EVB3S07NCA or EVB3S07N4EA	-	1	1 Asi Type	-	-	1	-	-	3 only if SPD	1 ⁽⁶⁾	-	-
EVB3S07N4AM or EVB3S07NCAM or EVB3S07N4EAM	1	1	1 Asi Type	-	-	1	-	-	3 only if SPD	1 ⁽⁶⁾	-	-

(1) Optional. Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations

(2) Supplied with EVlink Pro AC

(3) MCB (miniature circuit breaker) for control circuit protection: 1P+N 10 A C 6 kA/10 kA

(4) MCB per charge point: 3P+N 40 A C 6 kA/10 kA

(5) MCB per charge point: 3P+N 20 A C 6 kA/10 kA

(6) MCB per charge point: 1P+N 40 A C 6 kA/10 kA

(7) RCD residual current device 30 mA type Asi or type B EV

(8) RCD control circuit: 1P+N 25 A 30 mA type AC; mandatory for TT network; strongly recommended for TNC / TNS network

EVlink™ Pro AC Metal



EVlink Pro AC Metal selection criteria

Floor standing 2 charge points 1 cable entrance

Designed to be handled,
assembled and installed by
only one person.



The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: floor standing for 2 charge points
- An EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure and/or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

EVlink Pro AC reference	Embedded in the EVlink Pro AC			To be installed in 2 Kaedra (optional)							To be installed in Thalassa		To be installed in the distribution board
	MID meter	MNx	RCD ⁽¹²⁾ per charge point	MNx	RCD ⁽¹²⁾ per charge point	SPD ⁽¹⁾	MCB per charge point	MCB control circuit ⁽⁷⁾	RCD control circuit ⁽⁸⁾	Terminal connector 25 mm ²	SPD ⁽¹⁾	Terminal connector 35 mm ²	MCB per charge point
2 x EVB3S22N40MR	2	-	-	2 Supplied ⁽²⁾	2 Supplied ⁽²⁾	-	2 ⁽⁴⁾	2	2	2	1	5	1 ⁽⁹⁾
2 x EVB3S22N40M or EVB3S22NC0M or EVB3S22N40EM or EVB3S22N40FM	2	-	-	2 Supplied ⁽²⁾	2 Asi Type	-	2 ⁽⁴⁾	-	-	2	1	5	1 ⁽⁹⁾
2 x EVB3S22N4A or EVB3S22N4B or EVB3S22NCA or EVB3S22NCB or EVB3S22N4EB or EVB3S22N4FB	-	2	2	-	-	-	2 ⁽⁴⁾	-	-	-	1	5	1 ⁽⁹⁾
2 x EVB3S11N4A or EVB3S11NCA or EVB3S11N4FB	-	2	2	-	-	-	2 ⁽⁵⁾	-	-	-	1	5	1 ⁽¹⁰⁾
2 x EVB3S07N4A or EVB3S07NCA or EVB3S07N4EA	-	2	2	-	-	1	2 ⁽⁶⁾	-	-	3	-	-	1 ⁽¹¹⁾
2 x EVB3S07N4AM or EVB3S07NCAM or EVB3S07N4EAM	2	2	2	-	-	1	2 ⁽⁶⁾	-	-	3	-	-	1 ⁽¹¹⁾

(1) Optional. Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations.

(2) Supplied with EVlink Pro AC

(3) To ease the cabling, 1 Kaedra enclosure per charger is preferred

(4) MCB (miniature circuit breaker) per charge point: 3P+N 40 A C 6 kA/10 kA

(5) MCB per charge point: 3P+N 20 A C 6 kA/10 kA

(6) MCB per charge point: 1P+N 40 A C 6 kA/10 kA

(7) MCB control circuit: 1P+N C 10 A 6 kA/10 kA

(8) RCD control circuit: 1P+N 25 A 30 mA type AC; mandatory for TT network; strongly recommended for TNC / TNS network

(9) MCB charger: 4P 80 A C 10kA

(10) MCB charger: 3P+N 40 A C 6 kA/10 kA

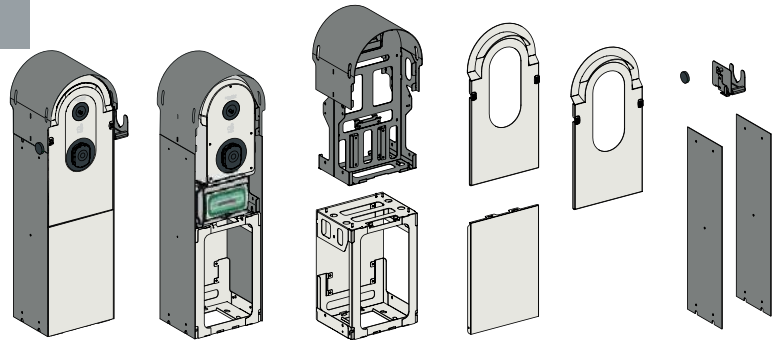
(11) MCB charger: 2P 80 A C 15 kA

(12) RCD residual current device 30 mA type Asi or type B EV

EVlink Pro AC Metal selection criteria

Floor standing 2 charge points dual cable entrance

Designed to be handled,
assembled and installed by
only one person.



The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: floor standing for 2 charge points
- An EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure and/or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

EVlink Pro AC reference	Embedded in the EVlink Pro AC			To be installed in 2 Kaedra (optional)						To be installed in the distribution board		
	MID meter	MNx	RCD ⁽⁷⁾ per charge point	MNx	RCD per charge point	SPD ⁽¹⁾	MCB control circuit ⁽⁴⁾	RCD control circuit ⁽⁵⁾	Terminal connector 25 mm ²	MCB per charge point	RCD per charge point	SPD ⁽¹⁾
2 x EVB3S22N40MR	2	-	-	2 Supplied ⁽²⁾	2 Supplied ⁽²⁾	-	2	2	2	2 ⁽⁶⁾	-	2
2 x EVB3S22N40M or EVB3S22NC0M or EVB3S22N40EM or EVB3S22N40FM	2	-	-	2 Supplied ⁽²⁾	2 Asi Type	2	-	-	2	2 ⁽⁶⁾	-	-
2 x EVB3S22N4 or EVB3S22N4E	-	2	-	-	-	-	-	-	-	2 ⁽⁶⁾	2 Asi Type	2
2 x EVB3S22N4A or EVB3S22N4B or EVB3S22NCA or EVB3S22NCB or EVB3S22N4EB or EVB3S22N4FB	-	2	2	-	-	2	-	-	10	2 ⁽⁶⁾	-	-
2 x EVB3S11N4A or EVB3S11NCA or EVB3S11N4FB	-	2	2	-	-	2	-	-	10	2 ⁽⁷⁾	-	-
2 x EVB3S07N4A or EVB3S07NCA or EVB3S07N4EA	-	2	2	-	-	2	-	-	5	2 ⁽⁸⁾	-	-
2 x EVB3S07N4AM or EVB3S07NCAM or EVB3S07N4EAM	2	2	2	-	-	2	-	-	5	2 ⁽⁸⁾	-	-

(1) Optional. Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations.

(2) Supplied with EVlink Pro AC

(3) To ease the cabling, 1 Kaedra enclosure per charger is preferred

(4) MCB (miniature circuit breaker) for control circuit protection: 1P+N 10 A C 6 kA/10 kA

(5) RCD control circuit: 1P+N 25 A 30 mA type AC mandatory for TT network; strongly recommended for TNC / TNS network

(6) MCB per charge point: 3P+N 40 A C 6 kA/10 kA

(7) MCB per charge point: 3P+N 20 A C 6 kA/10 kA

(8) MCB per charge point: 1P+N 40 A C 6 kA/10 kA

(9) RCD residual current device 30 mA type Asi or type B EV

Range accessories and spare parts

Accessories references

➤ EVlink Pro AC and Pro AC Metal

EVlink Cable



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

Please refer to page 44

4G Kits



Embedded 4G modem with 2 internal antennas for EVlink Pro AC.

Reference: **EVA1MS**

Optional exterior modem.

Reference: **EVP3MM**

Optional antenna.

Reference: **EVP2MX**



Embedded 4G modem with an external antenna for EVlink Pro AC Metal

Reference: **EVA1MM**

Optional exterior modem.

Reference: **EVP3MM**

Optional 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 Pro AC specific

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 holder



To leave the cable connected to the charging station

Reference: **EVA1PLS1**

Accessories references

➤ EVlink Pro AC Metal specific

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. Reference: **EVA1FWHS12**

Locking accessory for the metal kit



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 and Pro AC Metal - Socket outlets		References
	1PH socket outlet T2S	EVP1SSS41
	3PH socket outlet T2S	EVP1SSS43
	1PH socket outlet T2S - Domestic Tx (not supplied)	EVP1SSS51
	3PH socket outlet T2S - Domestic Tx (not supplied)	EVP1SSS53
	TE domestic socket	EVP1SSSE
	TF domestic socket	EVP1SSSF
EVlink Pro AC and Pro AC Metal - Attached cables		References
T2 charging connector		
	32 A single-phase 5 m length	EVP1CSS321C
	32 A single-phase 7 m length	EVP1CSL321C*
	32 A three-phase 5 m length	EVP1CSS323C
	32 A three-phase 7 m length	EVP1CSL323C*

* Confirm availability with your local Schneider Electric sales.

Cables for EVlink™ Home and Pro AC ranges

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

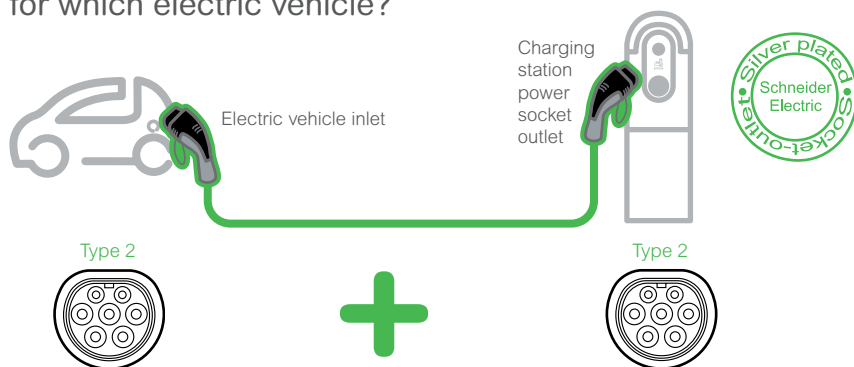
To take advantage of the charging capacity of public charging stations: by having an appropriate EVlink cable for the charging stations used, you obtain fast charging with integrated protection⁽¹⁾.

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



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





EVlink™ DC Product Range

Electric vehicle charging stations

EVlink™ DC Fast Charge p. 48

EVlink™ DC Fast Charge



In short



DC 24 kW - 1 connector / single standard

DC 24 kW - 2 or 3 connectors / multiple standards

DC 24 kW stations are able to charge an electric vehicle in less than 1 hour. The range covers a large variety of needs with a choice of either, per station:

- 1 connector, CHAdeMO or CCS Combo 2
- 2 connectors, CHAdeMO + CCS Combo 2
- 3 connectors, CHAdeMO + CCS Combo 2 + AC Type 2S (front socket outlet with shutter, for AC current with simultaneous charging AC + DC)

Communication with dual modem for separate operation and maintenance supervision.

Installation

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

Maintenance

- Reduced maintenance as there is no air filter to replace and a robust design (IP55, IK10) for uptime optimization.

Standards

- EV international standard: EN 61851-1 Ed. 3
- Immunity for industrial environments: EN 61000-6-2 - sept. 2015
- Emissions for industrial environments: EN 61000-6-4 - 2017 + A1: 2011
- EMC for industrial environments: Class A
- EV ready for AC output of the 3 connector versions

Application

EVlink Fast Charge stations are designed to charge a vehicle rapidly: **80% of capacity charged in less than 1 hour.**

DC 24 kW - 1 connector / single standard

Communication with dual modem for separate operation and maintenance supervision.

DC 24 kW - 2 or 3 connectors / multiple standards

Charging stations are ideal solutions for shopping centers, restaurants, parking areas or for any work place or shared buildings.

Characteristics

EVD1S24T0H

+ Pedestal EVP1DB1LG



EVD1S24THB

+ Pedestal EVP1DB2LG



EVD1S24THB2

+ Pedestal EVP1DB2LG



Mechanical and environmental features

- Degree of protection: IP55 (except cordsets)
- Degree of mechanical protection: IK10
- Operating temperature: -25°C / +50°C (with derating above 35°C)
- Storage temperature: -25°C to 65°C
- Operating altitude: 2000 m max.
- Relative humidity: 10% to 95%

Power supply network and charging mode

- Power supply: 360 - 440 V, 3P + N + earthing, 50 Hz
- Nominal supply current: 38 A (42 A max.) for DC output all versions
- Nominal supply current: 32 A (35 A max.) for AC output (version with 3 connectors)
- Direct current charging (all charging stations)
- Charging in Mode 4 (IEC 61851-23)
- Charging power: 24 kW
- Charging voltage/current: 200 to 530 VDC CCS Combo 2 / 150 to 500 VDC CHAdeMO, 1.5 to 65 A
- Protections: short circuit, overload; Residual Current Device on DC output; overheating, temperature regulated
- Cable length: Mono-standard 3.25 m, Multi-standard 3.25 m

Alternating current charging (3-socket charging station only)

- Charging in Mode 3 (IEC 61851-22)
- Charging power: 22 kW
- Charging voltage/current: 400 VAC / 32 A
- Protection: short circuit, overload; overheating, temperature regulated
- Charging voltage/current: 400 V $\pm$ 10% AC, 3P + N + earthing, 32 A max., with the front AC Type 2S socket outlet

Communication

- Wireless 3G/4G modem
- OCPP 1.6Json
- LAN/TCP IP protocol

User interfaces

- 7-inch touch screen
- RFID card reader

Dimensions (cabinet without socket / cable)

- Mono-standard wall mounted (mm): H 860 x L 507 x W 250
- Mono-standard on pedestal (mm): H 1533 x L 536 x W 336
- Multi-standard wall mounted (mm): H 1225 x L 507 x W 250
- Multi-standard on pedestal (mm): H 1835 x L 536 x W 336

Charging station references

EVlink DC Fast Chargers			
Power	Connector(s)	References	Weight (kg)
24 kW DC	CHAdeMO	EVD1S24T0H	66
	CCS Combo 2	EVD1S24T0B	66
	CHAdeMO + CCS Combo 2	EVD1S24THB	93
24 kW DC/22 kW AC	CHAdeMO + CCS Combo 2 + AC Type 2S	EVD1S24THB2	93
Pedestals			
For EVlink DC fast chargers		References	Weight (kg)
For EVD1S24T0H, EVD1S24T0B		EVP1DB1LG	51
For EVD1S24THB, EVD1S24THB2		EVP1DB2LG	53

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

Cluster power

Charge points 39

available 32
charging 3
suspended by EV 1
suspended by system 1
faulted 2
not connected 0
unavailable 0

CHARGES

0



Charges

Optimal

Reduced

Suspended

charging stations
local production

STATIONS

Name	Zone	Connect
Station 17	2nd Floor - North-East	1
Station 18	2nd Floor - North-East	2
Station 19	2nd Floor - North-East	1
Station 20	2nd Floor - North-East	2
Station 21	2nd Floor - North-East	1
Station 22	2nd Floor - North-East	1
Station 23	2nd Floor - North-West	2
Station 24	2nd Floor - North-West	1
Station 25	2nd Floor - North-West	2
Station 26	2nd Floor - North-West	1

Energy management, software and digital services

Energy management p. 52

EcoStruxure™ EV Charging Expert p. 54

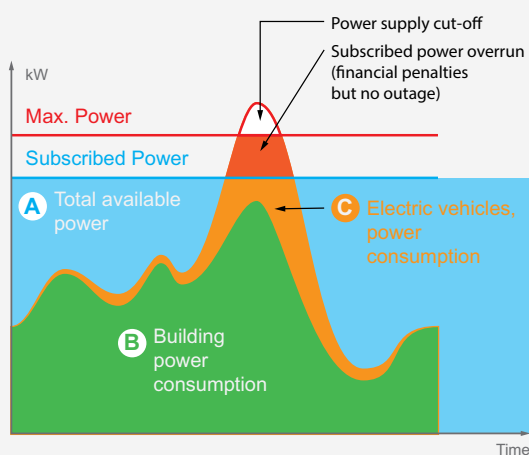
EcoStruxure™ EV Advisor p. 60

Energy management

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

> The problem

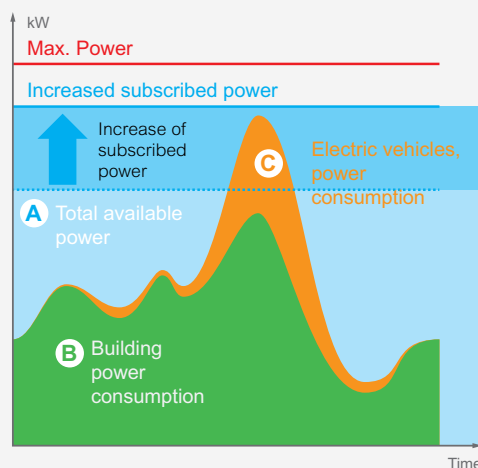
Initial situation



The installation of charging stations in an existing electrical installation can have a significant impact due to the power level required by electric vehicles to charge.

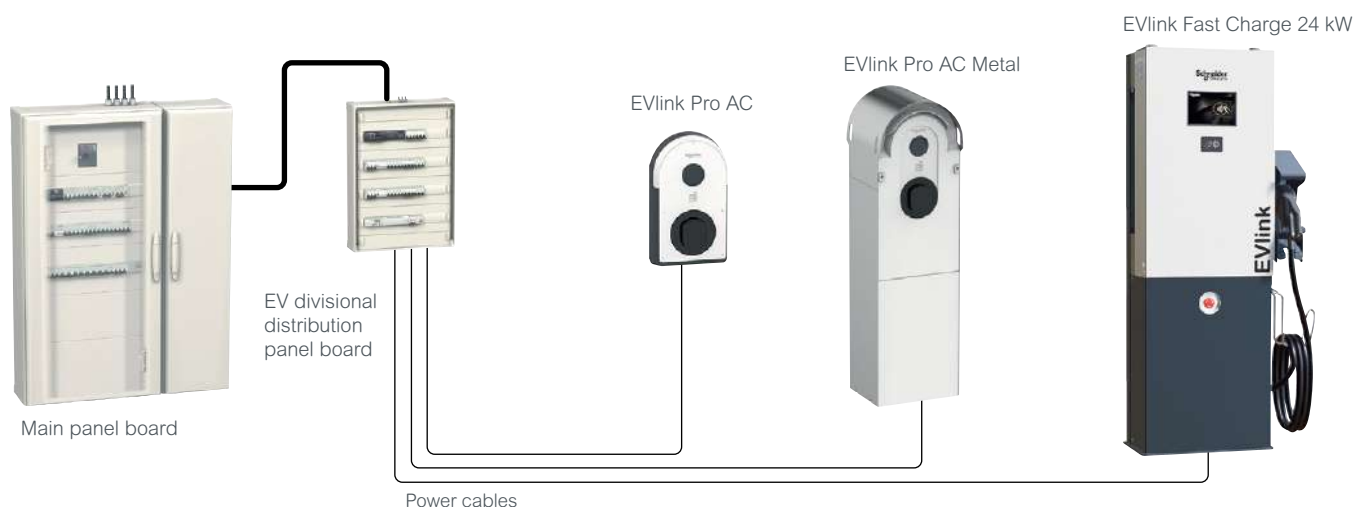
> Solution without energy management

Increase in subscribed power



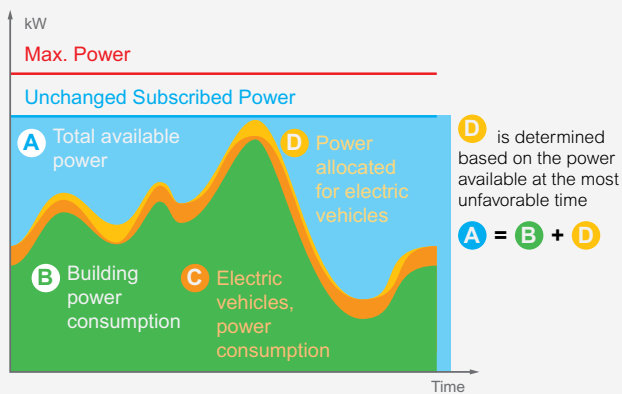
This solution consists of increasing the power subscribed to the energy supplier to maintain the same consumption model. It implies an increase in the cost of the subscription and the trigger threshold can be exceeded. Thus the continuity of service of the building could be impacted.

Electrical installation without energy management



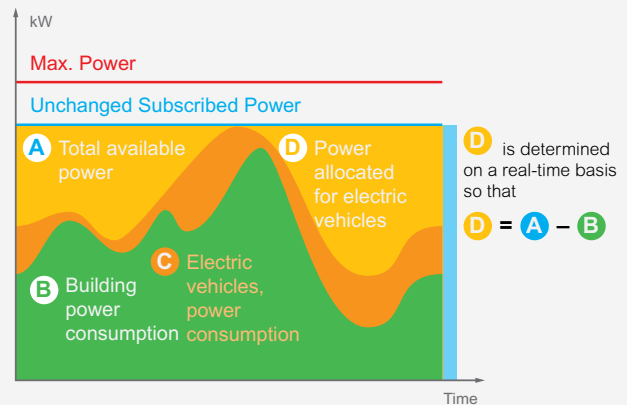
> Schneider Electric solutions

Static energy management



Setpoint "D" is fixed. The power is distributed between all connected vehicles.

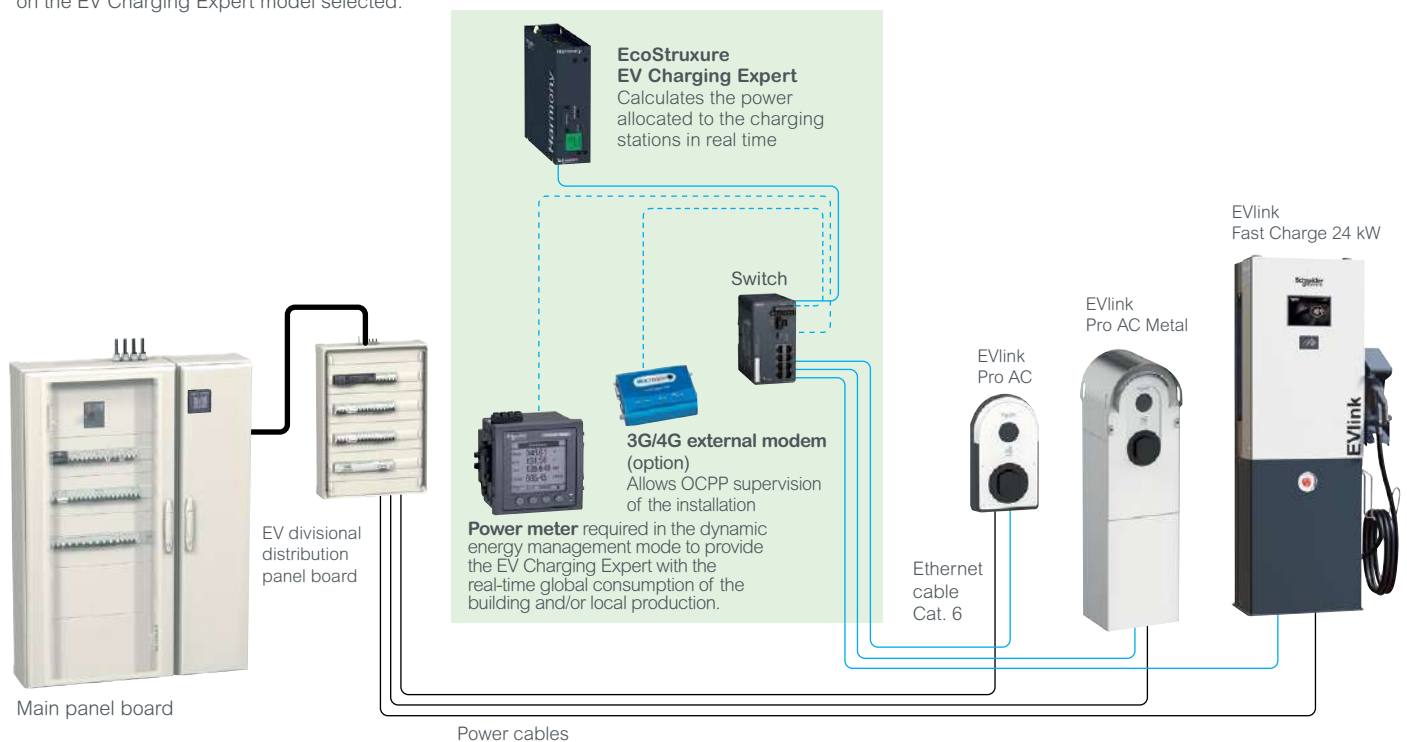
Dynamic energy management



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 the EV Charging Expert model selected.



[Discover more installation guidelines for EcoStruxure EV Charging Expert](#)



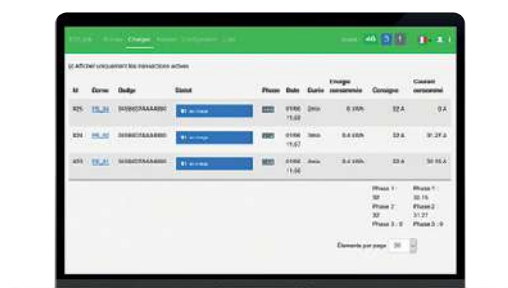
EcoStruxure EV Charging Expert



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



Find out
more here



Charging history of electric vehicles



Current charging sessions

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 (possible upgrade to OCPP 2.0)

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.

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



➤ EcoStruxure EV Charging Expert CORE references

		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 ⁽¹⁾		HMIBSCEA53D1ESS	HMIBSCEA53D1ESM	HMIBSCEA53D1EDB	HMIBSCEA53D1EDS	HMIBSCEA53D1EDM	HMIBSCEA53D1EDL
Features							
Capacity	Number of EVlink charging stations	15	50	5	15	50	100
Power management	Dynamic, with a STATIC current setpoint	●	●	●	●	●	●
	Time of use / DI		●		●	●	●
Multi zone	Maximum number of zones	1	10	2	2	10	20
	Maximum number of zone levels	1	3	2	2	3	3
Other loads	Power consumption reporting on other feeders		●			●	●
Badge management	VIP privilege user badge		●			●	●
Station management	VIP privilege charging station		●			●	●

(1) To upgrade from a current CORE reference to an upper-level one, consult the UPGRADES Software references.

➤ EcoStruxure EV Charging Expert UPGRADES Software references

Upgrade from a current CORE to an upper-level one

Reference	Description
EVLMSDB2EDS	Upgrade EV Charging Expert dynamic 5 CS to 15 CS
EVLMSDB2EDM	Upgrade EV Charging Expert dynamic 5 CS to 50 CS
EVLMSDB2EDL	Upgrade EV Charging Expert dynamic 5 CS to 100 CS
EVLMSSESS2EDS	Upgrade EV Charging Expert 15 CS from static to dynamic
EVLMSSESS2ESM	Upgrade EV Charging Expert static from 15 CS to 50 CS
EVLMSSESS2EDM	Upgrade EV Charging Expert from 15 CS static to 50 CS dynamic
EVLMSSESS2EDL	Upgrade EV Charging Expert dynamic from 15 CS to 50 CS
EVLMSSESS2EDL	Upgrade EV Charging Expert from 15 CS static to 100 CS dynamic
EVLMSSESS2EDL	Upgrade EV Charging Expert dynamic from 15 CS to 100 CS
EVLMSSESM2EDM	Upgrade EV Charging Expert from 50 CS static to 50 CS dynamic
EVLMSSESM2EDL	Upgrade EV Charging Expert static 50 CS to dynamic 100 CS
EVLMSSEDM2EDL	Upgrade EV Charging Expert dynamic from 50 CS to 100 CS

Additional information

Range compatibility:

EVlink Pro AC

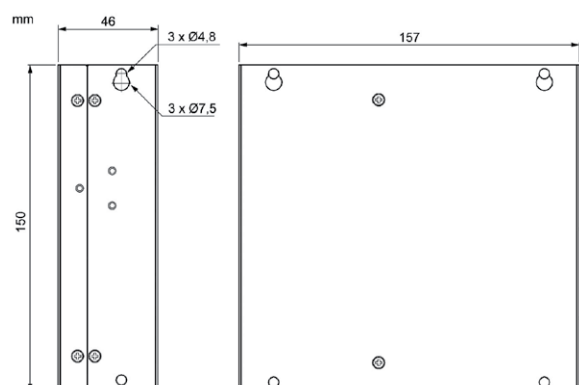
EVlink Smart Wallbox

EVlink Parking

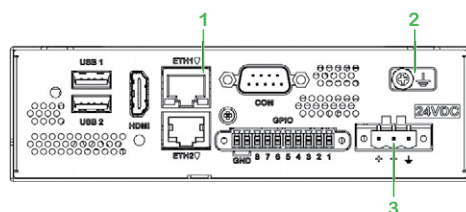
Practical information

➤ EcoStruxure EV Charging Expert dimensions (mm)

Dimensions



Rear view



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

EcoStruxure™ EV Charging Expert



➤ Features and benefits

Simplified,
decentralized,
flexible installation
architecture



- EcoStruxure EV Charging Expert manages and controls up to 100 charging stations from one single controller and user interface dashboard
- It is available in different versions to adapt to the specific customer needs, whether this is for fewer than 5 charging stations, or to up to 100
- It allows several parking zones to be managed, each one with its own power metering for dynamic load management, and all of it from a single controller
- It is scalable, and allows the installation to be upgraded easily from a current model to a more sophisticated one if the customer's EV charging needs evolve
- It operates with open protocols (OCPP 1.6Json) facilitating integration with other systems
- It allows the execution of installations according to "EV/ZE Ready" standards
- It is available at most distributors.

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, all in parallel to save time
- Easy firmware updates, with the most recent firmware release available on se.com.

Multiple functionalities
for efficient operation
and maintenance



- Integrates the local supervision of charging stations and their power management in a single product
- Includes an intuitive dashboard interface to manage and control the installation
- Optimizes building continuity of service all while providing the highest possible EV charging capabilities in real time
- Distributes energy equitably among all electric vehicles while maximizing the power delivered to the charging stations and the number of vehicles that charge simultaneously
- Provides time-of-use electricity tariff scheduling to limit EV charging when the electricity price is high, and to maximize it when it is low (depending on the selected model)
- The electric vehicle driver can see that the charging of the car is active before leaving it (a new vehicle is always actively charging when just connected) and prioritize it, even when all the available power is already being distributed to other vehicles which have been connected longer
- Allows the management of user badges without having to subscribe to an additional supervision system
- Allows priority (VIP) user badges or charging stations to be defined. These will not be load-shed, or will only be load-shed when strictly necessary to ensure the building's power continuity (depending on the selected model)
- Registers all historic data related to the EV charging transactions for analytics, cost allocation or invoicing
- Does not generate any subscription cost (if the services of a Charge Point Operator are needed, EcoStruxure EV Charging Expert is compatible with a CPO backend system (OCPP 1.6J protocol))
- Offers integration capabilities as it communicates with the Building Management System (BMS) via a webservice (may require specific development)
- Major international manufacturer and world leader in eMobility.



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



[Find out more here](#)



➤ Operation

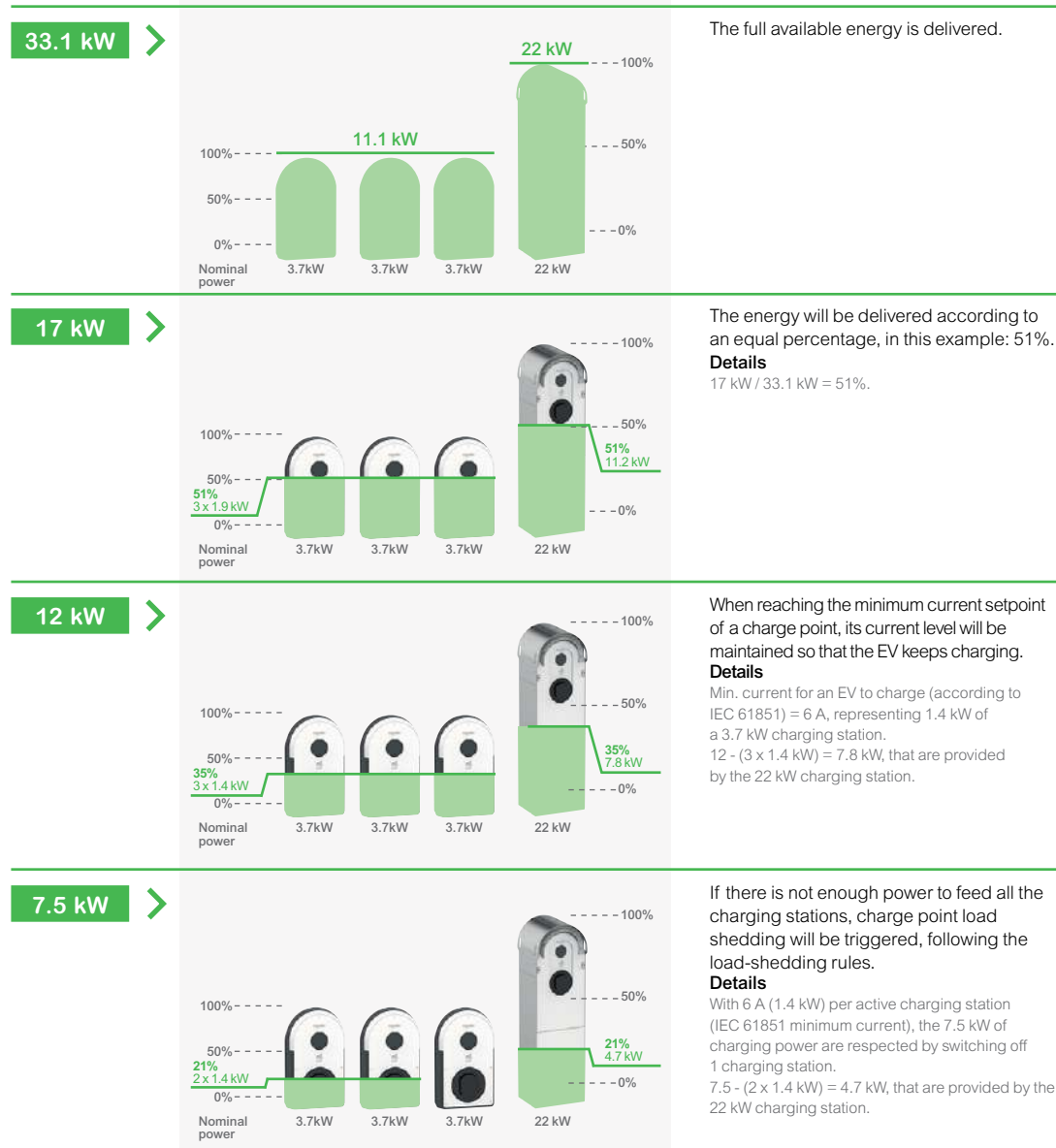
- EcoStruxure EV Charging Expert controls the EV charging infrastructure
- It allows the instantaneous power drawn by the entire set of connected electric vehicles to be limited, and manages the energy allocated to each one of them
- In real time, it transmits a setpoint to each charging station, which is transferred to the vehicles
- If the setpoint is exceeded, 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



EcoStruxure™ EV Charging Expert



➤ Principle of load balancing between vehicles

When the load shedding is triggered, the algorithm allows the available energy to be distributed according to 2 strategies (depending on the settings):

- 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.

➤ 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 EcoStruxure supervision (web services) ⁽¹⁾
		Maintenance report export	Optional: 3G/4G modem
			Commissioning by Ethernet cable

(1) May require specific development

Additional information

Charging station technical document	Language	References	
Installation Guides ⁽¹⁾	EN	EcoStruxure™ EV Charging Expert Installation Guide: DOCA0164 	
User Guides ⁽¹⁾	EN	EcoStruxure™ EV Charging Expert User Guide: DOCA0163 	Quick Start commissioning Guide EVSOLQSC001EN 

(1) To be downloaded.

To download the above documents, search by reference on www.se.com

Refer to Appendix for detailed

- > Switch detailsp. 98
- > Possible IT network topologiesp. 98
- > Typical load management architecturesp. 99



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.

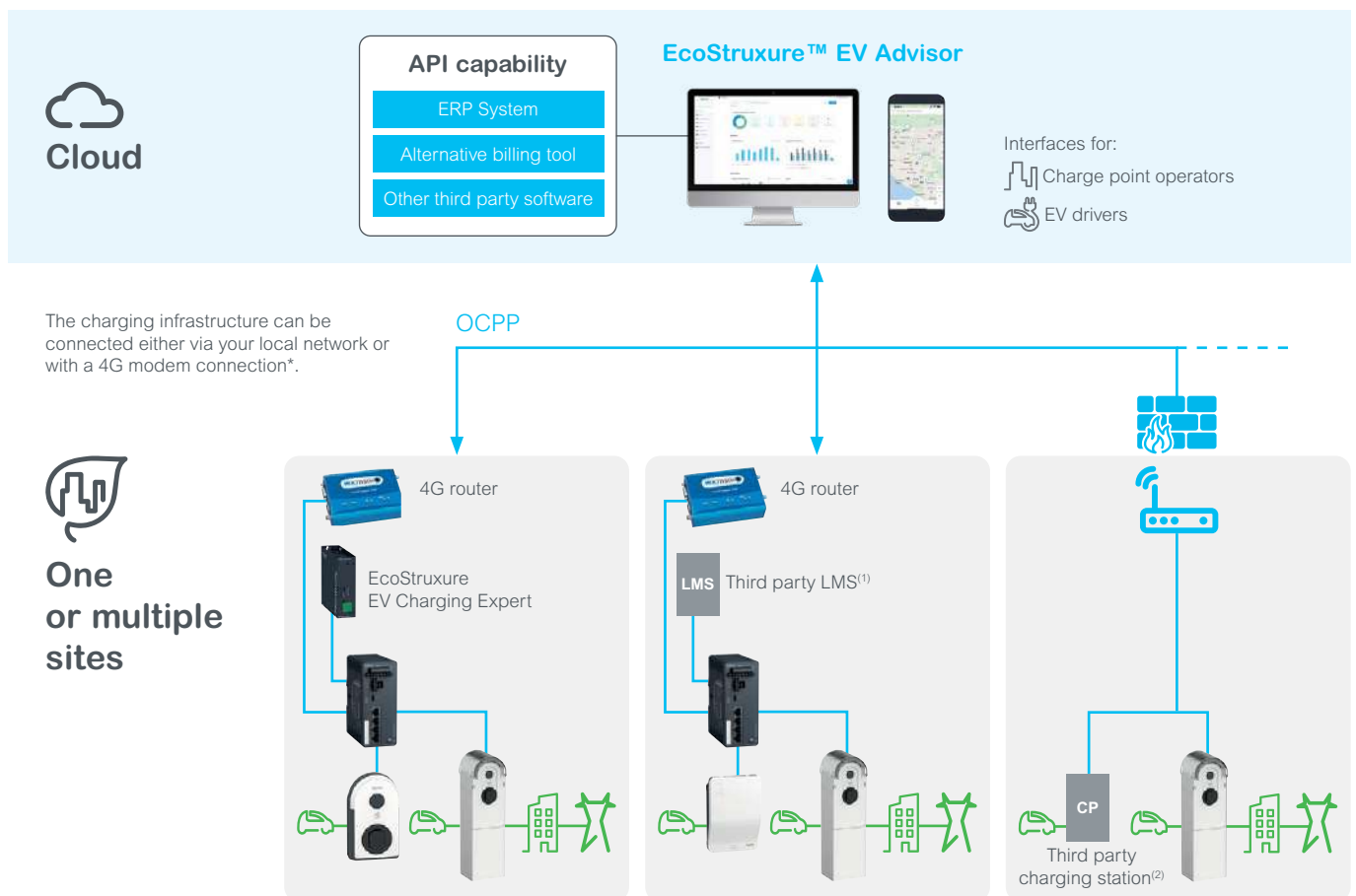
Users benefit from remote supervision and operation functions including features such as asset monitoring and asset control, cloud-based static load leveling, EV driver access management and pricing. As an open cloud-based platform, EcoStruxure EV Advisor will help our customers make the most of their EV charging infrastructure and will support them in implementing 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.

➤ Architecture

Whether you want to monitor a single site or manage an international network, with EcoStruxure EV Advisor you have flexibility to implement your individual business case.

With EcoStruxure EV Advisor, you can allocate access to the platform according to roles or responsibilities and share a log-in with your customers. For this purpose you can whitelabel the platform itself to promote your brand along with offering a whitelabeled EV Driver application.



⁽¹⁾ 4G data subscription is provided as option.

⁽²⁾ Consult us to get the list of approved third party charging station manufacturers.

* Available soon in selected European countries

EcoStruxure EV Advisor meets your challenges



Optimize uptime

Monitor the charging stations' performance remotely and reduce downtime with the help of alerts and remote-control functions to minimize the time you have to spend on site.



Monitor your key performance indicators

Generate dashboards with specific insights into utilization, revenue and station health, and data related to sustainability such as greenhouse gas reduction.



Avoid energy consumption peaks

Smartly manage the energy consumption of your EV infrastructure with our cloud-based load management tool.



Profit from the integrated Billing Solution

Enroll RFID cards and give granular access.
Set a pricing scheme for your chargers.



User-friendly charging experience

The EV / Driver application helps drivers to start a charging session from their phone and to see what chargers they have access to.



Control your EV charging history

EV Drivers can track their usage in real-time and get detailed reports about their usage.

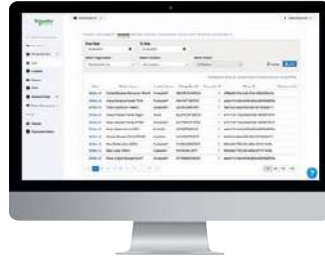
EcoStruxure™ EV Advisor



› Features and benefits of EcoStruxure EV Advisor software



Site map



Detailed reports



Performance dashboard

Manage your EV charging infrastructure



- Monitor your charging infrastructure remotely and carry out remote maintenance and troubleshooting activities.
- Manage access and permissions by specifying the rights of individuals or groups of EV drivers.

Generate revenues



- Set tariffs for charging events based on location, day of the week, time of day, parking time, consumption, number of charging events, and more.

Customize and implement your business case



- Develop your specific business case to suit your business activity. Manage a small number of locations or create your own network.
- Manage user rights: grant view-only or editor rights to different users of the EV Advisor platform in your organization or give your customers limited access to, for example, dashboard and reports.

Optimize cost and grid usage



- Optimize EV infrastructure energy consumption with the static cloud energy management feature.
- Monitor usage of the EV infrastructure to size and anticipate future needs through stats and dashboards.

Take advantage of an Open Platform



- Integrate the entire library of APIs to create a seamless customer experience.
- Connect and integrate third party OCPP compliant hardware to leverage EV Advisor as a truly open platform.

Optimize EV drivers' user experience



- Provide the app to your EV drivers to enable them to find and unlock the charging stations, monitor their usage and review invoices.
- Support awareness for your brand by whitelabeling the EV driver application.

Choose to become a network operator



- Set up multiple organizations and locations that can be monitored simultaneously.
- Whitelabel the platform dashboard with your brand and allow your customers and partners to access certain areas of the platform.
- Customized APIs supporting app development and other use cases including identity management, payment and CRM system integration.
- Share your entire network of chargers with EV drivers to increase utilisation, your profitability and the EV driver experience.





eMobility Services

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eMobility Services

› Services over the entire lifecycle

Wherever you are in your eMobility adoption, we've got you covered!



Design your infrastructure

Let's partner up to design a sustainable and efficient eMobility charging solution for your electric fleet that suits your business needs, either for new projects or for upgrading your infrastructure, optimizing your installation with renewable energies, digital software, and management services.



Make your operation smarter

Efficiently manage your charging stations for optimized energy consumption and minimized carbon footprint while seamlessly monetizing your EV charging assets, which can be easily monitored and controlled through energy management capabilities.



Make the most of your new installation

Take advantage of our experts to optimize the performance of your EV infrastructure and keep your assets running in optimum condition throughout the whole lifecycle, from installation and commissioning, up to maintenance and modernization.



A professional network

Optimize uptime with the support of a network of certified experts for consulting, field, and remote services, trained and equipped with tools to execute on-site interventions and remotely diagnose and manage your eMobility assets.

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.

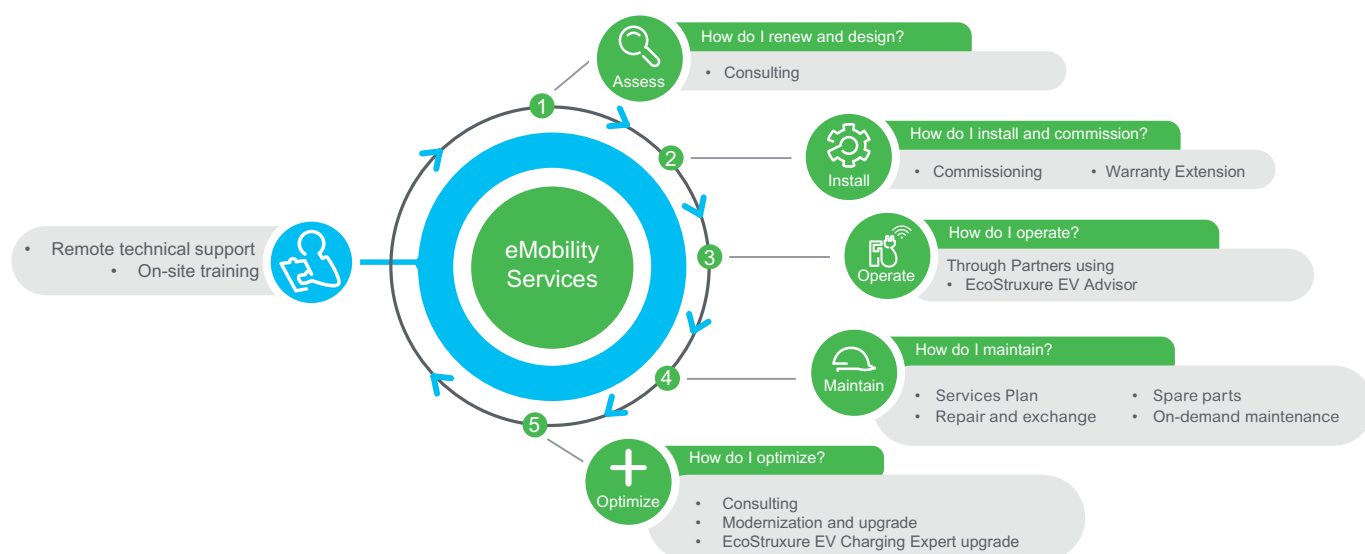
Schneider Electric expertise



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



Improve productivity and minimize operational costs by reducing downtime throughout the entire lifecycle of your charging infrastructure.

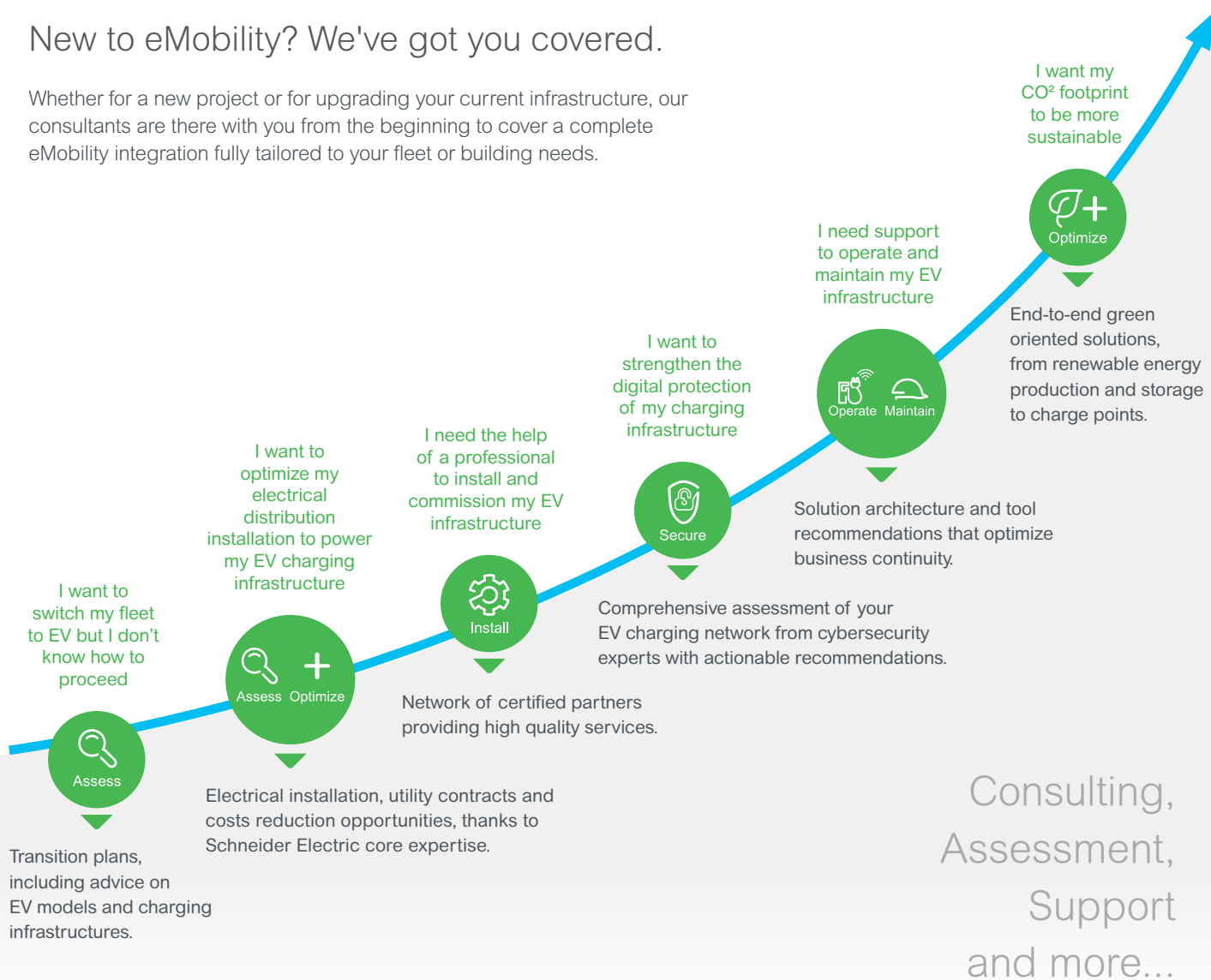


How do I renew and design?

> Consulting

New to eMobility? We've got you covered.

Whether for a new project or for upgrading your current infrastructure, our consultants are there with you from the beginning to cover a complete eMobility integration fully tailored to your fleet or building needs.



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 and EVlink Pro AC

At Schneider Electric, we take technical support very seriously.

Our technical experts provide on-site and remote assistance in commissioning new charging stations especially when there are building load management and supervision requirements.

Our certified technicians will help the equipment is properly commissioned and programmed. In addition, you will receive a detailed commissioning report, signed off by a Schneider Electric engineer, certifying the equipment is set up correctly and covered by our warranty.



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.

➤ Mobile Apps

Download the MySchneiderApp and Manage your eMobility Asset seamlessly!

Manage the performance of your asset

- Access obsolescence reports and associated service recommendations.
- Access the manufacturer's product documentation linked to your asset and store your own documents.

Anticipate any issues

- Be notified about recommended actions on your installed products: address your concerns about the right products at the right time.

Technical Support

- Our FAQs and contact to the Customer Care Center are available and customized to each of your registered assets.
- One click access to your dedicated technical support team.



[Download the Application](#)

REGISTER YOUR ASSET NOW

How do I install and commission?

➤ 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.



Additional information

Charging station technical document	Language	References		
Brochure	EN	EVlink Warranty Extension: 998-21827492 	EVlink Commissioning Service: 998-21950800_B 	EcoStruxure EV Charging Expert Upgrade and Commissioning package: 998-22046477 
eMobility Services - Statement of work	EN	Warranty Extension: JYT9348100 	Remote Commissioning: PKR2869000 	On-site commissioning: GEX5781900 

To download the above documents, search by reference on www.se.com

How do I maintain?

> 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 your sustainable goals.

With a fixed yearly plan, you can expect top-of-the-line services from Schneider electric for your eMobility infrastructure. All that in addition to priority access to on-site and remote support and preferential prices on our spare parts ecosystem.



Benefits

Continuous support		• 8/5 remote technical support with agreed fast response time and on-site support dispatch.
Optimize your investment and increase uptime		• Reduction of downtime and losses thanks to regular preventive maintenance.
Control your budget		• One fixed yearly plan for all your maintenance needs.
Operate in optimum conditions		• High-end services based on the manufacturer's expertise • Benefits from the most up-to-date features and firmware

How do I maintain?

➤ eMobility Spare Parts

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

Schneider Electric provides you with original spare parts as the ideal base for your **preventive maintenance** and – if needed – **repair work**.

Benefits

Original



- As the manufacturer, Schneider Electric knows everything about the spare parts for its products.

High Quality



- The parts are authentic and the same as used in the actual product.
- There is no fear for counterfeit parts when sourcing from the manufacturer.

Available

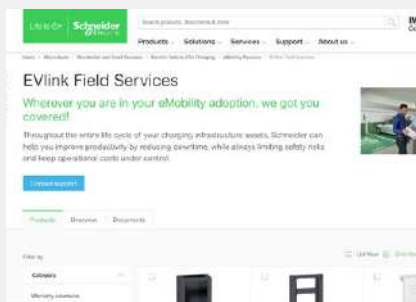


- Spare parts are available from our local, regional and global stocks.
- Fast delivery options can further accelerate the delivery of parts to you.

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



Spare part list
on the website
**EVlink Field
services**



Instruction sheet
**Spare part
replacement guide**

How do I optimize?

➤ EcoStruxure EV Charging Expert Upgrade and commissioning package

Extend the eMobility infrastructure

The EcoStruxure EV Charging Expert upgrade and commissioning package makes your eMobility infrastructure extension project smooth and efficient with newly added features.

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.

They also perform on-site commissioning for additional charging stations and update the EcoStruxure EV Charging Expert software settings.

Benefits

- Extend and upgrade your eMobility infrastructure with new functionalities without buying new products
- Minimize upgrade and start-up time thanks to Schneider Electric's fast support
- Benefit from Schneider Electric's expertise to maximize uptime and lifetime of your equipment.



EcoStruxure EV Charging Expert Upgrade and Commissioning Package
998-22046477



➤ EVlink Parking modernization

Extend asset lifetime by replacing the motherboard

Our Electronic Board replacement services help your charging station operate reliably and efficiently. The motherboard can require replacement due to firmware issues or in order to upgrade to OCPP 1.6 on the EVlink Parking 1.

The upgrade of the electronic board for the EVlink Parking Service provides full Electronic Board replacement. Labor and travel are included with this service

Benefits

- Extend the lifetime of aging assets
- Modernize your eMobility infrastructure without buying new products
- Postpone full renewal and CapEx investment



Upgrade of the electronic board for EVlink Parking Service
GEX6798200



Get in touch for support

➤ Customer care support

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

We are here for you

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.

We speak your language

Your dedicated product specialists are just one phone call away to answer all of your questions and help you with installation, configuration, troubleshooting, and diagnostics of your eMobility products.



Reach out to our
Customer Care team in
your location



➤ Premium Support

Our Premium Support is a highly responsive service adapted to our most loyal customers. It allows us to answer their technical questions faster, with a commitment to a timeframe for response, and suitable resources to resolve the issue at hand.

Benefits

Efficiency through
expertise



- Direct access to Advanced Support Agents.

Faster reactivity



- Dedicated Service Level Agreement on Initial Respond Time.

Easier to use



- Multi-channel communication (phone, chat and e-mail support)
- Schedule a session with experts.

Exclusive,
personalized access



- mySchneiderPortal / Exclusive FAQ content

Get in touch for support

➤ 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.

In addition, you could maximize your workforce's effectiveness through our comprehensive eMobility training and increase the knowledge of features and practices for commissioning, operating and maintaining your EV infrastructure.



➤ Learn more



Select your courses now on the technical training course finder



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, expand your reach with access to more customers and projects, and benefit from dedicated support to make the difference.

Join our professional network of certified eMobility partners to engage in a continuous specialization path, designed to deliver premium services and differentiate your business.

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

eSetup for Electricians is a dedicated app for EVlink Pro AC, Wiser and Facility Expert SB products from Schneider Electric.

- Save time on installation and commissioning since everything can be done within the app.
- Access to the charge details report and maintenance report from the app.



[Download the Application](#)

EcoStruxure Facility Expert

A free application to improve your operational efficiency and develop your services business

- Accurate planning of preventive maintenance tasks and interventions which leads to reduced working time
- Greater visibility of your work by easily generated reports that will allow you to create bills faster
- Details of activities undertaken during a given period that will demonstrate the impact of your company's services
- A way to share information securely internally or externally, as your customers will easily have access to the digital copies of your transactions.



[Download the Application](#)

Commercial references

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

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 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

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

Electrical Distribution for eMobility

Protection..... p. 82

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EVlink™ terminal distribution kit..... p. 90



Schneider Electric Power distribution

> 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**

A-SI Type earth leakage protection



“

I want to get the best from my electric car by installing an EV charging station at home

”



➤ Acti9 iCV40N Type A-SI

"High-end protection solution"

Customer story

Mr and Mrs Smith own an electric car, but there are not many charge points close to work or home. They always have to check around to charge the car. They don't want to waste more time, so they decided to install an EV charging station at home. They will enjoy full availability at the end of the day, and they can save money by charging at home.

This is a small investment that will add value to their house and simplify their daily habits.

Of course, they want the solution to be efficient and compliant with standards.

Acti9 iCV40N RCBO Type A-SI is certified (IEC/EN 61008-2-1) and is fully compatible with EV charging stations for residential applications.

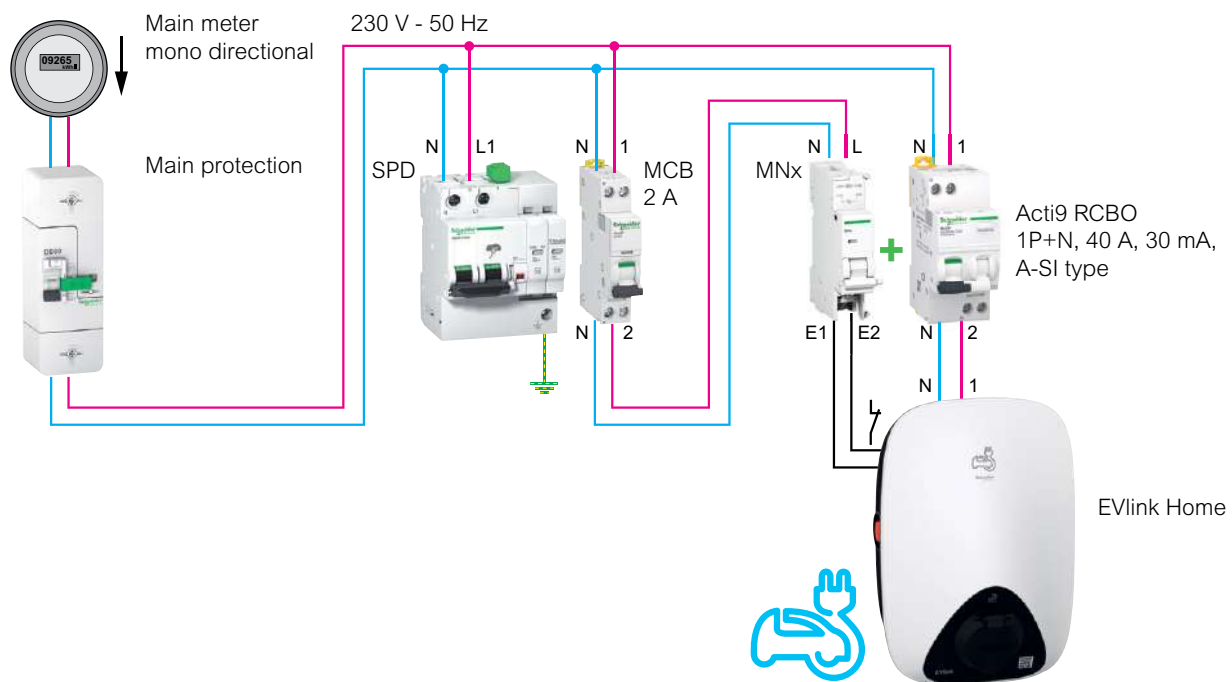
Proposed solution

The EV charging station plug is to be used daily by Mr and Mrs Smith. It is usually installed outside the home, being exposed to rain, snow, dust and humidity. That is why the IEC 60364-7-722 standard requires a 30 mA residual current protection for direct contact.

Acti9 iCV40N RCBO Type A-SI is designed to:

- **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.

> Solution diagram



Note: defining protections during the design phase helps to avoid upstream and parallel protection disablement (blinding of upstream and parallel protection due to direct current signal presence).

For more information about selectivity and coordination of protection devices, refer to the earth leakage protection guide reference CA908066E and associated coordination tables.

> Products used

Product	Description	Quantity	Reference
EVlink Home	EV Charging Station	1	Refer to EVlink Home (p. 8)
Acti9 iCV40N 1P+N	Residual current breaker with overcurrent protection Type A-SI	1	Specific to country
Acti9 iMNx	Undervoltage release tripping unit	1	A9A26476

B EV Type earth leakage protection



”

I want to provide to my customers with the appropriate electrical protection for their EV charging solution

”



➤ Acti9 iLD B type for EV

An optimum solution covering people and the EV supply equipment

Customer story

More and more customers are driving electric cars. This is the current trend. They are looking for a car park where they can rest, have fun or go shopping, but where they can also recharge their cars.

Improving my company's image by going green is good. Moreover, I can benefit from the government's help and attract new customers.

Acti9 iLD B type RCCB for EV is certified (IEC/EN 62423) and is fully compatible with EV charging stations for residential and tertiary applications.

Proposed solution

The EV charging station socket outlet is to be used daily by the customers, and it is usually installed outdoor, being exposed to rain, snow, dust, humidity and temperature variation.

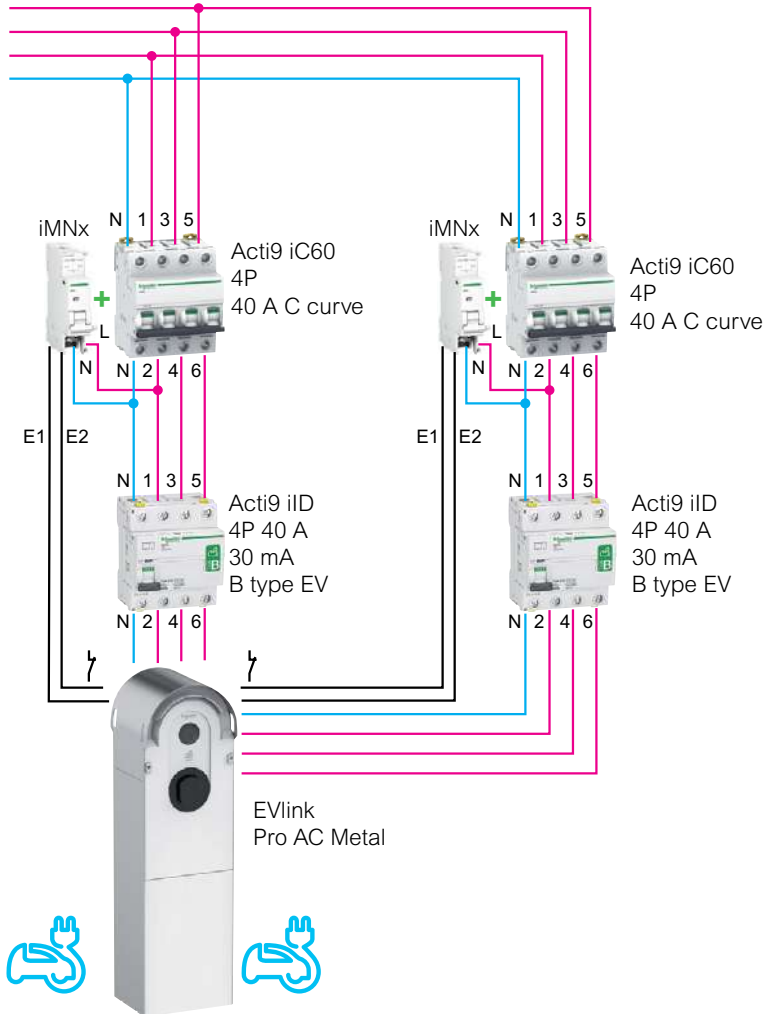
That is why IEC 60364-7-722 standard requires a 30 mA residual current protection for direct contact.

Acti9 RCCB iLD B type EV is designed to:

- **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).

➤ Solution diagram

230/400 V - 50 Hz



➤ Products used

Product	Description	Quantity	Reference
EVlink Pro AC Metal	22kw 32A 3PH T2S SOCKET MID embedded - RCD B EV MNX supplied	2	EVB3S22N40MR
EVlink Pro AC Metal kit	EVlink metallic kit for AC floor standing charger 2 charge points	1	EVA1RFKS2
Kaedra enclosure	IP65 1 x 12 modules of 18mm - 267 x 200 x 112 mm	2	Specific to country
Acti9 iMNx supplied with EVlink Pro AC	Undervoltage release tripping unit	-	A9A26969
Acti9 iID 2P 40 A 30 mA B type EV	RCCB for EV charging station	2	A9Z51240
MCB 3P+N 40A C curve 6kA/10kA	MCB per charge point	2	Specific to country
MCB 4P 80A C curve 10kA	MCB protection for EVlink Pro AC Metal in the switchboard	1	Specific to country

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 security. Contactor and MNx provide together an efficient and full redundancy electrical safety, mainly when RDC-DD is in the charging station.

Following a downstream short circuit, the contactor may no longer open the charging circuit if the contacts have become welded. As a result, any DC fault current cannot be removed and the permanent voltage on the socket outlet presents a risk for people in general if no shutter is fitted to it.

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.



Acti9 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 33





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.



A9MEM2155



A9MEM3155

iEM Energy meters - MID

Commercial reference	A9MEM2155	A9MEM3155
Communication	Modbus	Modbus
Accuracy class	Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class B active energy conforming to EN 50470-3	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	36 mm	90 mm
Poles description	1P+N	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



ComPact NSX

Enerlin'X IFE switchboard server, ComPact 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 and Enerlin'X EIFE
LV851001



Enerlin'X EIFE Embedded Ethernet interface for drawout Masterpact 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

EVlink™ terminal distribution kit



➤ 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.



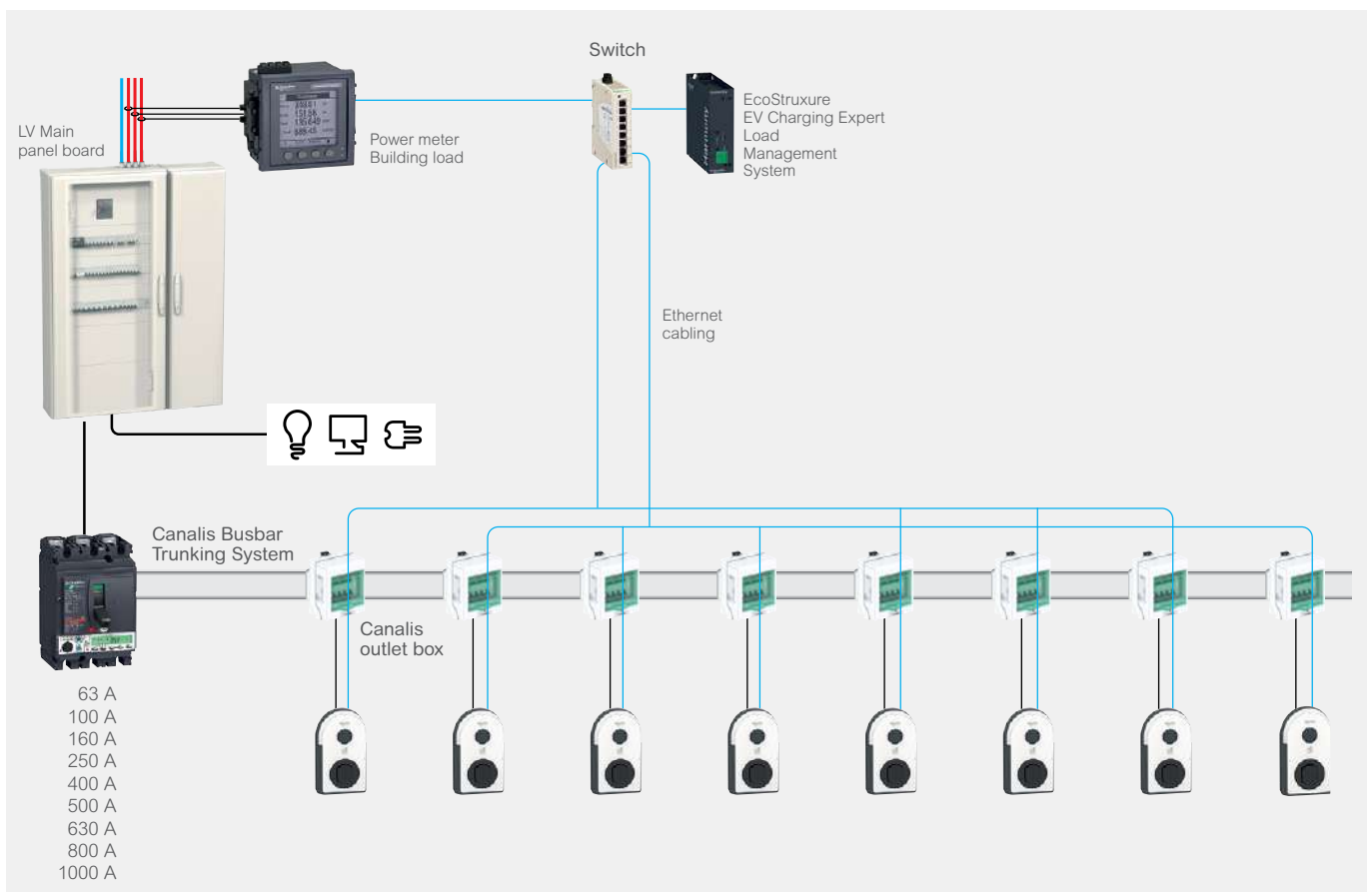
Save space in your LV Switchboard and cost in the event of a change in the system*:

- 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.

*Learn more: EV Charging Solutions for Residential and Commercial Buildings eBrochure 998-22207355



> Canalis KN, Canalis KS preassembled protection kits for EV chargers*

Technical specification



Canalis KS tap-off unit
KSB63SM48



MCB
A9F07440



RCD
A9Z51440

2-pole and 4-pole pre-assembled and pre-cabled kits
for 1 x 8-module tap-off unit

- 1 x circuit breaker
- 1 x RCD B-type for electric vehicle applications

Offer presentation

Canalis KN,
distribution from 40 to 160 A



Charging station power	Description of the kit	Included	References		
kW		Tap-off unit	MCB	RCD	Kit
3.7	Protection kit Canalis KN 8 mod. 2P MCB 25 A RCD B EV	KNB63SM48	A9F07220	A9Z51225	EVK8KN2PB25
7.4	Protection kit Canalis KN 8 mod. 2P MCB 40 A RCD B EV		A9F07240	A9Z51240	EVK8KN2PB40
11	Protection kit Canalis KN 8 mod. 4P MCB 25 A RCD B EV		A9F07420	A9Z51425	EVK8KN4PB25
22	Protection kit Canalis KN 8 mod. 4P MCB 40 A RCD B EV		A9F07440	A9Z51440	EVK8KN4PB40

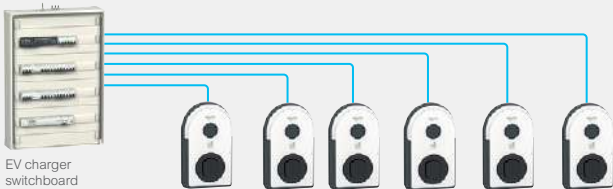
Canalis KS,
distribution from 100 to 1000 A



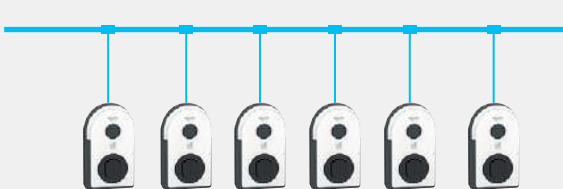
Charging station power	Description of the kit	Included	References		
kW		Tap-off unit	MCB	RCD	Kit
3.7	Protection kit Canalis KS 8 mod. 2P MCB 25 A RCD B EV	KSB63SM48	A9F07220	A9Z51225	EVK8KS2PB25
7.4	Protection kit Canalis KS 8 mod. 2P MCB 40 A RCD B EV		A9F07240	A9Z51240	EVK8KS2PB40
11	Protection kit Canalis KS 8 mod. 4P MCB 25 A RCD B EV		A9F07420	A9Z51425	EVK8KS4PB25
22	Protection kit Canalis KS 8 mod. 4P MCB 40 A RCD B EV		A9F07440	A9Z51440	EVK8KS4PB40

Electrical distribution architectures

> Centralized distribution



> Canalis distribution (decentralized)



* Check availability in your country.



Schneider
Electric



Learn more

Entde

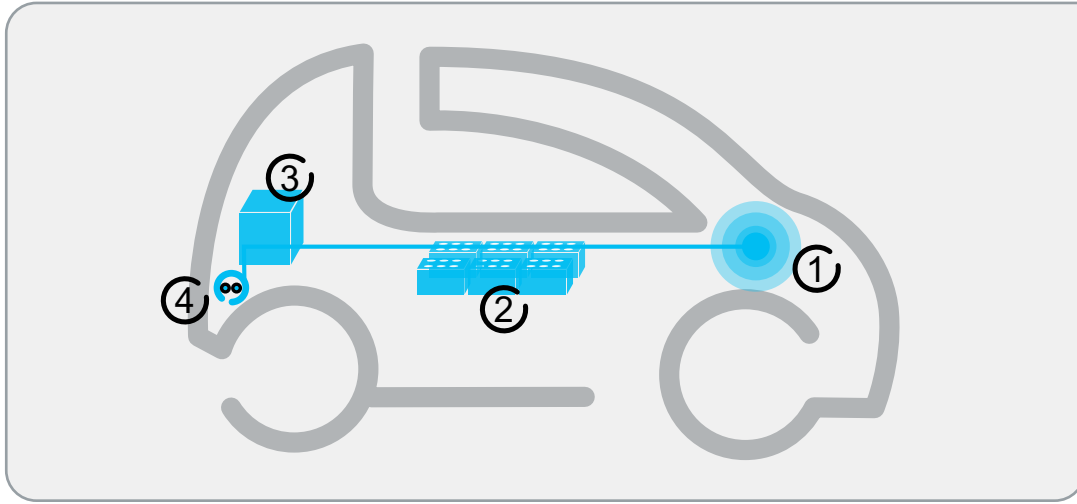
e-Mobility

Appendix

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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

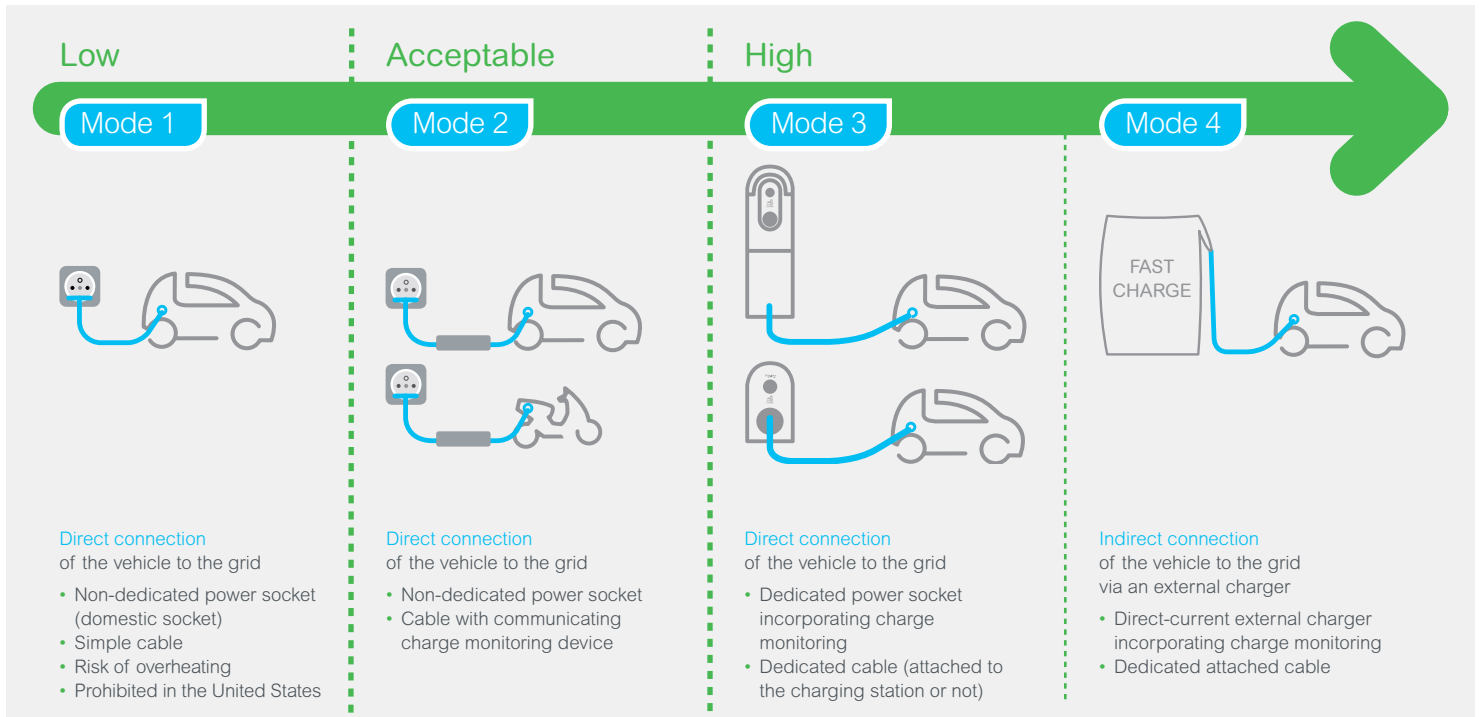
The vehicle is fitted with one battery charger supplied in AC by the charging station that defines the maximum charging current available. In some vehicles the battery charger may also be supplied in DC by the charging station.

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.

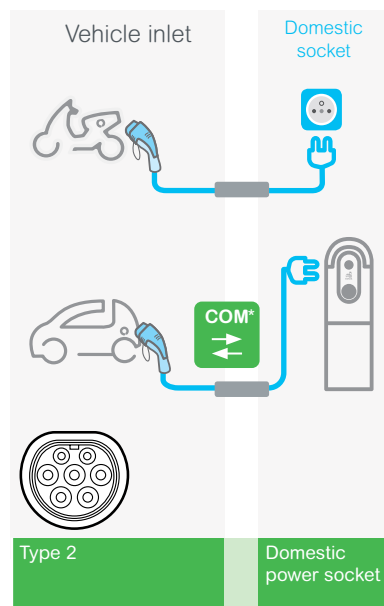


➤ The charging mode determines the protection level

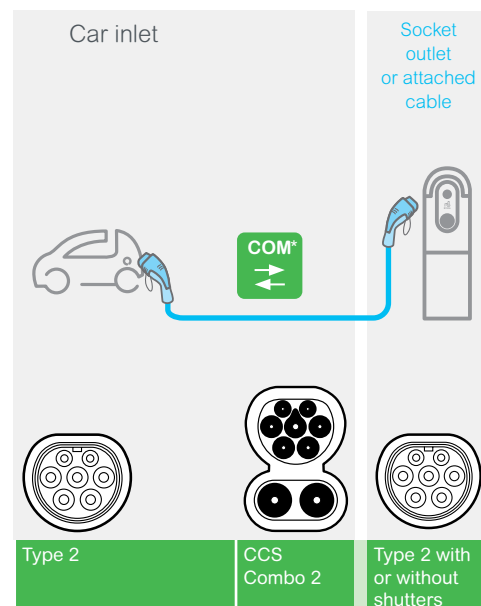


➤ Mode 2, Mode 3 or Mode 4 determines the type of charging connectors

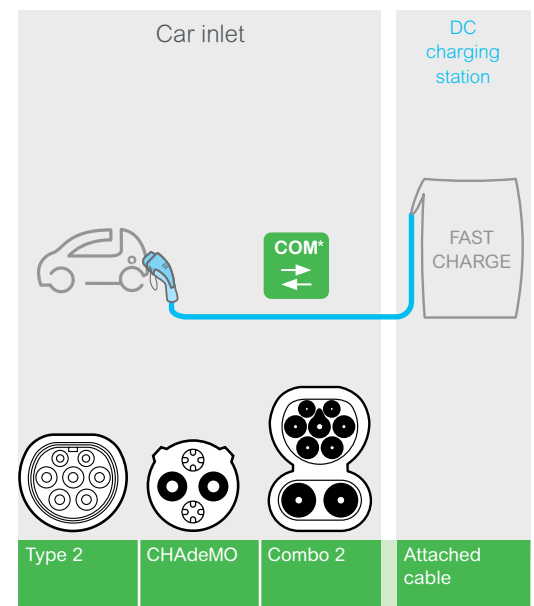
Mode 2



Mode 3



Mode 4



***Focus on technology**

Charging cable

A "COM" wire allows data communication between the vehicle and the charging station. The charging process starts only if the following information is OK:

- Vehicle earthing
- Indication of the charging cable rating.

Electric Vehicle additional information

➤ The effective charging capacity is that of the weakest "link", for example:

Vehicle charger	Cable/charging mode	Charging point	Effective charging capacity
 7 kW	 2.3 kW (Mode 2)	 Domestic power socket 2.3 kW (Mode 2)	2.3 kW
 7 kW	 7.4 kW (Mode 3)	 Charging station 22 kW	7.4 kW

➤ The power of the source determines the charging speed*

Example: for a vehicle with a 40 kWh battery:

Source used	Domestic power socket	Dedicated AC power socket		Dedicated DC power socket
Power	Single-phase: 2.3 kW	Single-phase: 7.4 kW	Three-phase: 22 kW	Three-phase: 24 kW
Time to a full charge	 18 h	 7 h	 2h30 min	 2h
% of charge reached in 30 min	 3%	 7%	 20%	 25%

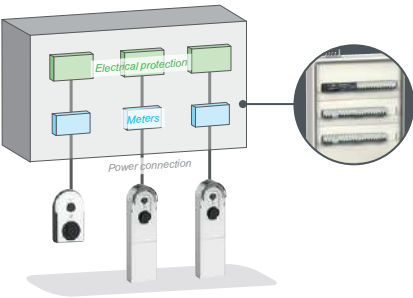
* Subject to the use of a suitable cable.

Focus on technology

Electrical distribution architecture

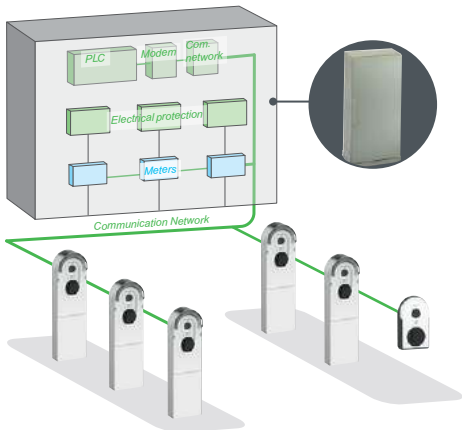
Standalone

One or several charging stations can be connected to the same protection panel. Each charging station operates independently. They are protected upstream and their consumption can be measured. The charging stations can be connected to a supervision solution.



Clustered

An alternative way is to manage energy availability: [EcoStruxure EV Charging Expert](#). This makes it possible to consider various needs related to the use of the vehicles that will be charged. A cluster consists of between 3 and 1000 charging stations, controlled by [EcoStruxure EV Charging Expert](#) and a power meter, 3G/4G modem, etc., that can be connected to a supervision solution.



➤ 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. Learn more:



The International Electrotechnical Committee (IEC) has defined a set of standards, 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

➤ Learn more



Wiki Guide
for electric vehicle
charging

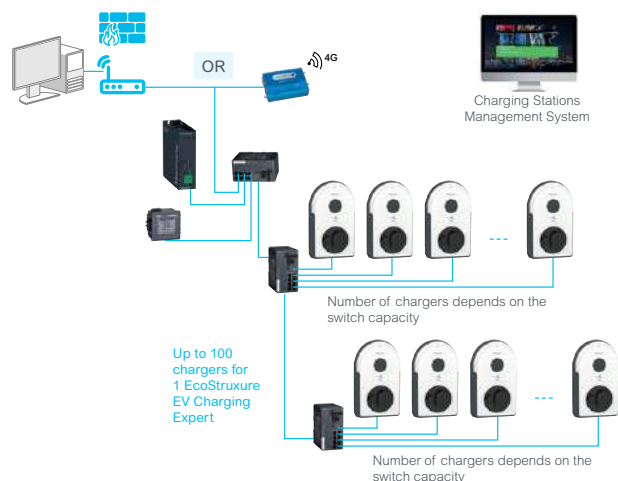


White Paper
Safety measures
for electric vehicle
charging

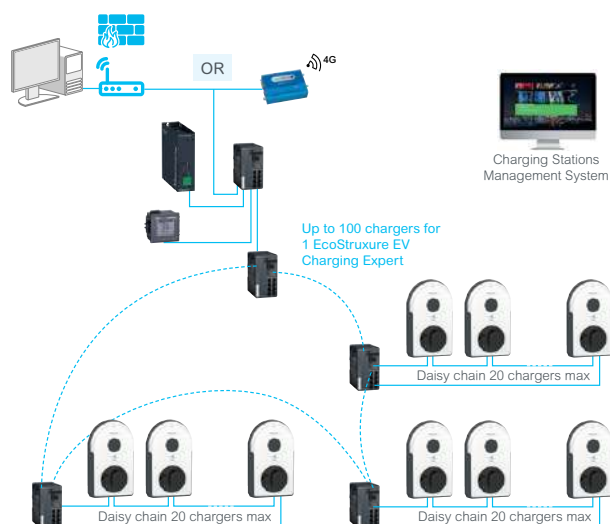
EcoStruxure™ EV Charging Expert

Possible IT network topologies

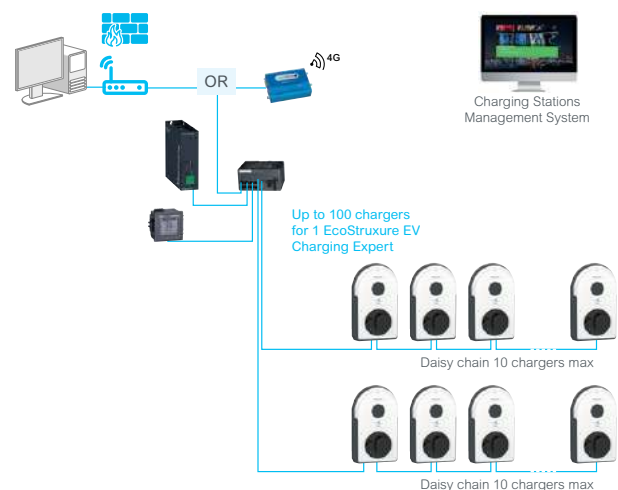
> Star topology



> Daisy chain loop topology



> Daisy chain topology



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.

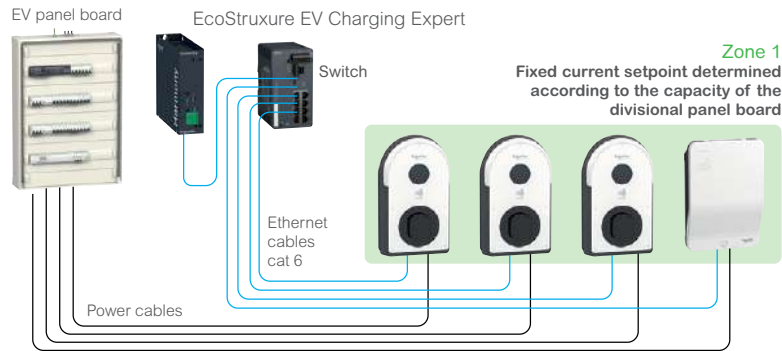


Complete range
of Modicon Switches

Typical load management architectures

➤ Static load management:

Single-zone



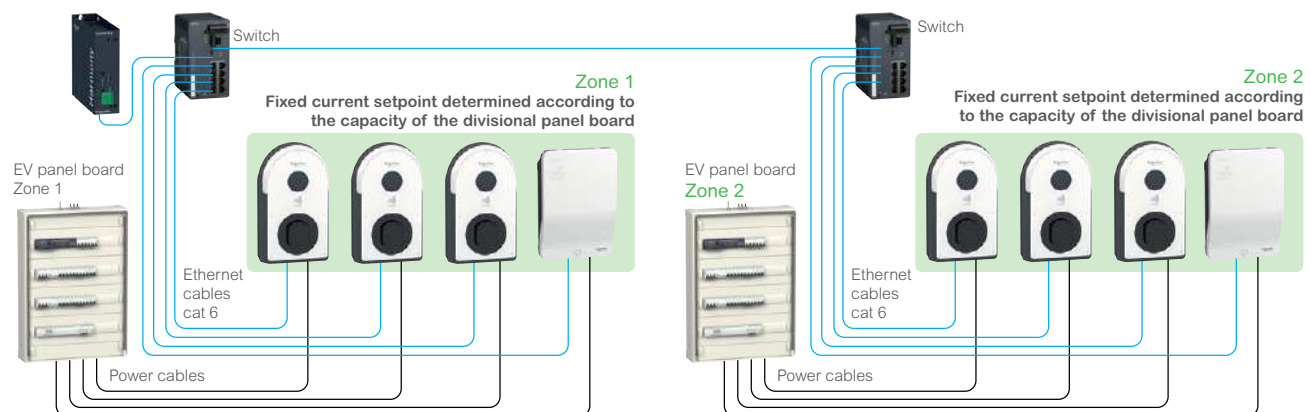
To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 55

EcoStruxure EV Charging Expert

- Up to 5 stations: ref. HMIBSCEA53EDB
- Up to 15 stations: ref. HMIBSCEA53D1ESS
- Up to 50 stations: ref. HMIBSCEA53D1ESM

Multi-zone (multiple switchboards)

EcoStruxure EV Charging Expert²



EcoStruxure EV Charging Expert

- From 1 to 5 stations in total, in a maximum of 2 zones: ref. HMIBSCEA53D1EDB
- From 1 to 15 stations in total in 1 single zone: ref. HMIBSCEA53D1ESS
- From 1 to 15 stations in total, in a maximum of 2 zones: ref. HMIBSCEA53D1EDS
- From 1 to 50 stations in total, in a maximum of 10 zones: ref. HMIBSCEA53D1ESM

➤ Dynamic load management

Multi zone⁽¹⁾

Main panel board

Power meter

Zone 0
Dynamic current setpoint calculated according to the overall real-time consumption of the building

EcoStruxure EV Charging Expert

Ethernet cables cat 6

Switch

EV panel board

Power cables

Zone 1
Fixed current setpoint determined according to the capacity of the divisional panel board

To other divisional distribution panel board(s) or other load(s)

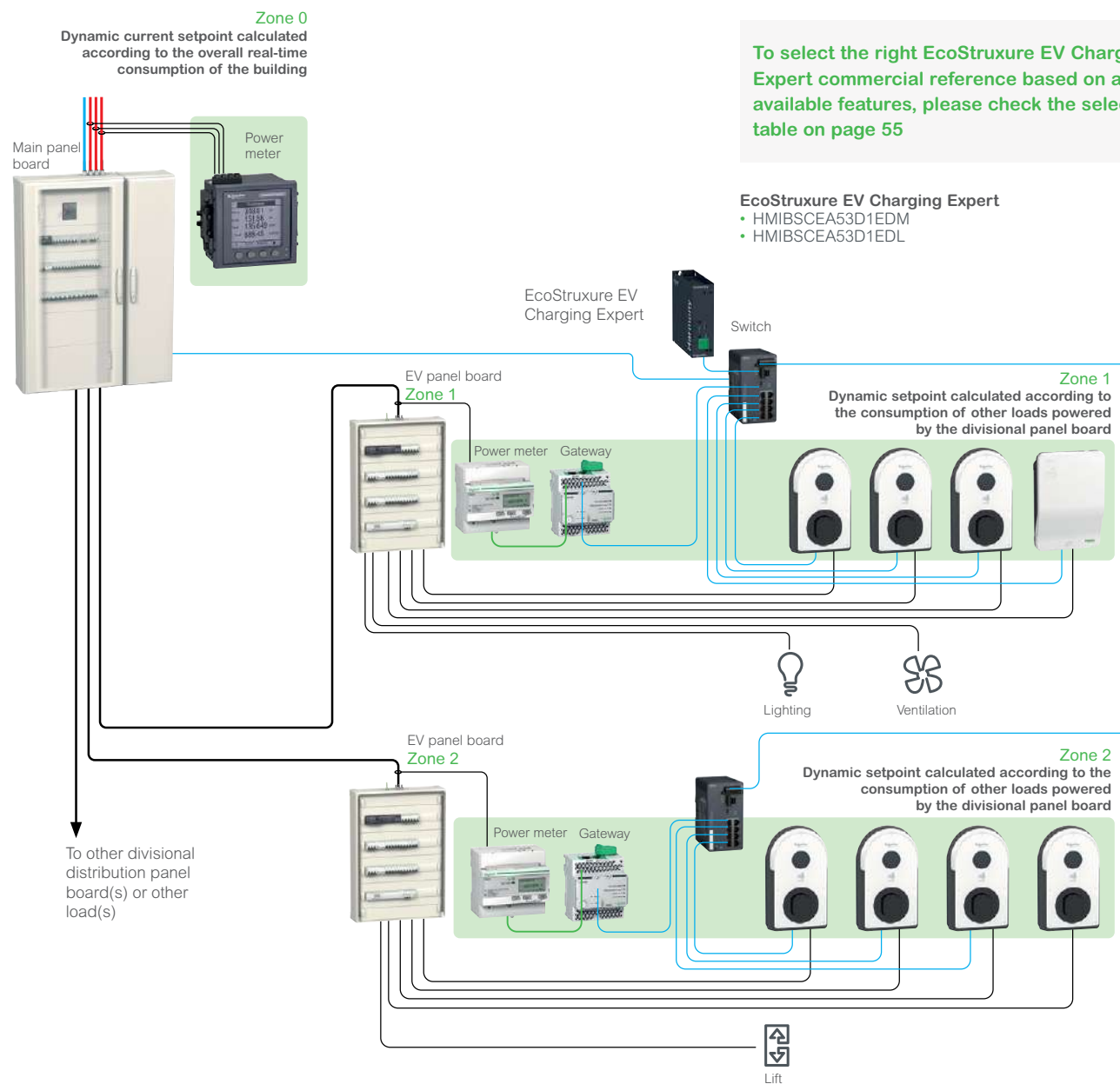
EcoStruxure EV

- Up to 5 stations ref. HMIBSCEA5
- Up to 15 stations ref. HMIBSCEA5
- Up to 50 stations ref. HMIBSCEA5
- Up to 100 stations ref. HMIBSCEA5

available real-time data on page 10

-
- Multi zone⁽¹⁾**
- The diagram illustrates a multi-zone EV charging system architecture. It starts with a **Main panel board** connected to a **Power meter**. The system is divided into three zones:
- Zone 0:** Dynamic current setpoint calculated according to the overall real-time consumption of the building.
 - Zone 1:** Fixed current setpoint determined according to the capacity of the divisional panel board.
 - Zone 2:** Fixed current setpoint determined according to the capacity of the divisional panel board.
- Each zone is connected to an **EV panel board** (labeled **Zone 1** and **Zone 2** in the diagram). The EV panel boards are connected to **Switch** units, which then connect to the EV charging stations. The system also includes an **EcoStruxure EV Charging Expert** unit.
- ⁽¹⁾ Multi zone system requires the following Expert:
- HMIBSCEA53D1EDM
 - HMIBSCEA53D1EDL

Typical load management architectures



To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 55

EcoStruxure EV Charging Expert

- HMIBSCEA53D1EDM
- HMIBSCEA53D1EDL

List of commercial references

EVlink™ Home and Home Smart

Characteristics		References ⁽¹⁾	
		EVlink Home	EVlink Home Smart
Charging stations with socket outlet			
T2	3.7 kW (1P - 16 A)	EVH4S03N2	EVH4A03N2
	7.4 kW (1P - 32 A)	EVH4S07N2	EVH4A07N2
	11 kW (3P - 16 A)	EVH4S11N2	EVH4A11N2
T2 with shutter	3.7 kW (1P - 16 A)	EVH4S03N4	EVH4A03N4
	7.4 kW (1P - 32 A)	EVH4S07N4	EVH4A07N4
	11 kW (3P - 16 A)	EVH4S11N4	EVH4A11N4
Charging stations with attached cable (5 m)			
	3.7 kW (1P - 16 A)	EVH4S03NC	EVH4A03NC
	7.4 kW (1P - 32 A)	EVH4S07NC	EVH4A07NC
	11 kW (3P - 16 A)	EVH4S11NC	EVH4A11NC

Characteristics		References	
		EVlink Home	EVlink Home Smart
Charging stations with TIC*			
EVlink Home 1P T2S 3.7 kW 16 A - with RDC-DD - TIC		EVH4S03N400F	-
EVlink Home 1P T2S 7.4 kW 32 A - with RDC-DD - TIC		EVH4S07N400F	-
EVlink Home 3P T2S 11 kW 16 A - with RDC-DD - TIC		EVH4S11N400F	-
EVlink Home Smart 1P T2S 3.7 kW 16 A - with RDC-DD - TIC		-	EVH4A03N400F
EVlink Home Smart 1P T2S 7.4 kW 32 A - with RDC-DD - TIC		-	EVH4A07N400F
EVlink Home Smart 3P T2S 11 kW 16 A - with RDC-DD - TIC		-	EVH4A11N400F

*Only for France

Accessories	References ⁽¹⁾
Peak controller	
1 Phase Universal Peak Controller	EVA1HPC1
1 Phase High Power Peak Controller	EVA2HPC1
3 Phase Universal Peak Controller	EVA1HPC3

(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 Metal 22 kW 32 A 3PH T2S SOCKET MID and RCD B EV MNX supplied	EVB3S22N40MR
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	EVB3S07N4CAM
EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD-DD and MNX supplied	EVB3S07N4C0
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	EVB3S22N4CB
EVlink Pro AC 22 kW 32 A 3PH Attached Cable MID 6 mA and MNX supplied	EVB3S22N4C0M

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	EVA1RFS1
EVlink Pro AC Metal floor standing 2 charge points kit	EVA1RFS2
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

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

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

List of commercial references

Spare parts	References
Front panel	
SE white front plate EVlink Pro AC	EVP1SS
Socket outlet	
1PH socket outlet T2S EVlink Pro AC	EVP1SSS41
3PH socket outlet T2S EVlink Pro AC	EVP1SSS43
1PH socket outlet T2S and domestic Tx (not supplied) EVlink Pro AC	EVP1SSS51
3PH socket outlet T2S and domestic Tx (not supplied) EVlink Pro AC	EVP1SSS53
TE domestic socket EVlink Pro AC	EVP1SSSE
TF domestic socket EVlink Pro AC	EVP1SSSF
Attached cable	
T2 attached cable 3PH 32 A 5 meter length EVlink Pro AC	EVP1CSS323C
T2 attached cable 1PH 32 A 5 meter length EVlink Pro AC	EVP1CSS321C
T2 attached cable 3PH 32 A 7 meter length EVlink Pro AC	EVP1CSL323C
T2 attached cable 1PH 32 A 7 meter length EVlink Pro AC	EVP1CSL321C

EVlink™ Pro AC and Pro AC Metal Services

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
On-site Commissioning	
On-site Commissioning for max. 5 AC charging stations with EcoStruxture EV Charging Expert	EVS1CF0L
On-site Commissioning for 5 to 15 AC charging stations with EcoStruxture EV Charging Expert	EVS1CFSL
On-site Commissioning for 15 to 50 AC charging stations with EcoStruxture EV Charging Expert	EVS1CFML
On-site Commissioning for 50 to 100 AC charging stations with EcoStruxture EV Charging Expert	EVS1CFLL
On-site Commissioning for max. 5 AC charging stations	EVS1CF0
On-site Commissioning for 5 to 15 AC charging stations	EVS1CFS
On-site Commissioning for 15 to 50 AC charging stations	EVS1CFM
Option On-site Commissioning connection with a supervision solution	EVS1CFCPO
Remote Commissioning	
Remote Commissioning for max. 5 AC charging stations with EcoStruxture EV Charging Expert	EVS1CR0L
Remote Commissioning for 5 to 15 AC charging stations with EcoStruxture EV Charging Expert	EVS1CRSL
Remote Commissioning for max. 5 AC charging stations	EVS1CR0
Remote Commissioning for 5 to 15 AC charging stations	EVS1CRS
Option Remote Commissioning connection with a supervision solution	EVS1CRCPO

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

EVlink™ DC Fast Chargers

Characteristics	References
Charging Stations	
EVlink DC 24 kW CHAdeMO	EVD1S24T0H
EVlink DC 24 kW CCS2	EVD1S24T0B
EVlink DC 24 kW CCS2 + CHAdeMO	EVD1S24THB
EVlink DC 24 kW CCS2 + CHAdeMO + AC Type 2S	EVD1S24THB2
Accessories	
Pedestals for EVD1S24T0H, EVD1S24T0B	EVP1DB1LG
Pedestals for EVD1S24THB, EVD1S24THB2	EVP1DB2LG

(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⁾
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

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

eMobility Services

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

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 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

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 points	EVS1UFP2B

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



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