eMobility solutions
Building the future of all-electric mobility

Electric vehicle charging solutions
Catalog 2023
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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.

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

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

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)
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*Available soon in selected European countries
eMobility solutions

Building the mobility of the future

Extensive network of certified partners

Industry standards compliance

Worldwide customer support

End-to-end solutions provider

SCALABILITY AND RESILIENCY

EFFICIENCY AND SUSTAINABILITY

CONNECTIVITY AND INTEROPERABILITY

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

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

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

Charge
your EV

Optimize
your energy consumption

EVlink Home Smart

Power Line Communication

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

Commission
easily with eSetup

Operate
with Wiser

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

Power: from 3.7 to 11 kW

All-in-one app
Energy consumption dashboard
Charging mode selection

WiSion
Home Energy Management System

Se.com

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EcoStruxure™ for eMobility Application

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)

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
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, iMNs)
- 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

New office building
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)

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

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

New Building Solution for Charging at Work
Transition smoothly to an EV fleet and take the road to a more sustainable future

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 (OCP 1.6-J)
- IEC 61851 Ed.3, ISO 15118 ready

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

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

EcoStruxure™ for eMobility
- APPS, ANALYTICS AND SERVICES
- EDGE-CONTROL OFFERS
- CONNECTED PRODUCTS

Schneider Electric digital innovation, at every level

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
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For fleet managers wanting to electrify their company fleet:
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EcoStruxure™ for eMobility
- APPS, ANALYTICS AND SERVICES
- EDGE-CONTROL OFFERS
- CONNECTED PRODUCTS

Schneider Electric digital innovation, at every level
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.

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\(^{(1)}\) 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 (e.g. 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 (e.g. PV installation on the building) and using the dynamic electricity tariffs for cost efficient charging.

### Benefits of Smart Charging

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

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

**BUILDINGS**
- Multifamily Home

**APPs, ANALYTICS AND SERVICES**
- Wiser

**eMobility Services**
- EcoStruxure™ EV Advisor*

**EDGE CONTROL**
- EVlink Home anti-tripping system

**CONNECTED PRODUCT**
- EVlink Home
- EVlink Home Smart
- EVlink Pro AC
- EVlink Pro AC Metal

*Available soon in selected European countries

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
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.

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

**FLEETS**

**At work**

**At destination**

**Everywhere**

**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**

Images of the offers are not contractual.
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
**EVlink™ Home**

**Characteristics**

**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

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

**Standards**
EN 61851-1 Ed3.0 (2019)

**Green Premium Product**
- ROHS compliant
- Reach compliant
- EoLi: End Of Life Process
- Product Environmental Profile compliant
Charging station references

**EVlink Home**

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

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

---

### Practical information

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

---

### Projections and options with EVlink Home

#### Description

<table>
<thead>
<tr>
<th>References</th>
<th>Number of phases</th>
<th>Type of socket</th>
<th>Power kW</th>
<th>Output current</th>
<th>Embedded protection</th>
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<tbody>
<tr>
<td>EVH4S03N2</td>
<td>1PH</td>
<td>T2</td>
<td>3.7</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
</tr>
<tr>
<td>EVH4S07N2</td>
<td>1PH</td>
<td>T2</td>
<td>7.4</td>
<td>32 A</td>
<td>with 6 mA DC filter</td>
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<td>3PH</td>
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<td>11</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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<tr>
<td>EVH4S03N4</td>
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<td>16 A</td>
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<tr>
<td>EVH4S07N4</td>
<td>1PH</td>
<td>T2S</td>
<td>7.4</td>
<td>32 A</td>
<td>with 6 mA DC filter</td>
</tr>
<tr>
<td>EVH4S11N4</td>
<td>3PH</td>
<td>T2S</td>
<td>11</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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</table>

**With attached 5 m**
**cable** and **T2 connector**

<table>
<thead>
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<th>References</th>
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<th>Output current</th>
<th>Embedded protection</th>
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<tr>
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<td>-</td>
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<td>with 6 mA DC filter</td>
</tr>
<tr>
<td>EVH4S07NC</td>
<td>1PH</td>
<td>-</td>
<td>7.4</td>
<td>32 A</td>
<td>with 6 mA DC filter</td>
</tr>
<tr>
<td>EVH4S11NC</td>
<td>3PH</td>
<td>-</td>
<td>11</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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</table>

**EVlink Home with TIC**

<table>
<thead>
<tr>
<th>References</th>
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<th>Type of socket</th>
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<th>Embedded protection</th>
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<td>EVH4S03N400F</td>
<td>1PH</td>
<td>T2S</td>
<td>3.7</td>
<td>16 A</td>
<td>with RDC-EE filter - TIC</td>
</tr>
<tr>
<td>EVH4S07N400F</td>
<td>1PH</td>
<td>T2S</td>
<td>7.4</td>
<td>32 A</td>
<td>with RDC-EE filter - TIC</td>
</tr>
<tr>
<td>EVH4S11N400F</td>
<td>3PH</td>
<td>T2S</td>
<td>11</td>
<td>16 A</td>
<td>with RDC-EE filter - TIC</td>
</tr>
</tbody>
</table>

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

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### Protection

- **Circuit breaker (overcurrent) (1)**: 20 A Curve C
- **RCD (residual current) (1)**: 30 mA A-Si Type (2)
- **Under voltage tripping auxiliary (3)(4)**: iMNX

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### Practical information

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

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**Webcam**

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

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**EVH4S03N2**
EVlink Home and Home Smart

Characteristics

**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
- OCPP 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

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 references

EVlink Home Smart

<table>
<thead>
<tr>
<th>EVlink Home Smart</th>
<th>References</th>
<th>Number of phases</th>
<th>Type of socket</th>
<th>Power kW</th>
<th>Output current</th>
<th>Embedded protection</th>
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<tr>
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<td>EVH4A03N2</td>
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<td>T2</td>
<td>3.7</td>
<td>16 A</td>
<td>with mA DC filter</td>
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<td>EVH4A07N2</td>
<td>1PH</td>
<td>T2</td>
<td>7.4</td>
<td>32 A</td>
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<td>11</td>
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<td>T2 with shutters</td>
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<td>T2S</td>
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<tr>
<td>With attached 5 m cable and T2 connector</td>
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<td>with mA DC filter</td>
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<td>7.4</td>
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<td>with mA DC filter</td>
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<td>EVH4A11NC</td>
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<td>11</td>
<td>16 A</td>
<td>with mA DC filter</td>
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</table>

<table>
<thead>
<tr>
<th>EVlink Home Smart with TIC*</th>
<th>References</th>
<th>Number of phases</th>
<th>Type of socket</th>
<th>Power kW</th>
<th>Output current</th>
<th>Embedded protection</th>
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</thead>
<tbody>
<tr>
<td>T2 with shutters</td>
<td>EVH4A03N400F</td>
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<td>with RD-DC filter - TIC</td>
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<td>EVH4A11N400F</td>
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<td>T2S</td>
<td>11</td>
<td>16 A</td>
<td>with RD-DC filter - TIC</td>
</tr>
</tbody>
</table>

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

Protection and options with EVlink Home Smart

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<tr>
<th>Description</th>
<th>Single-phase</th>
<th>Three-phase</th>
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<tbody>
<tr>
<td>Charging</td>
<td>3.7 kW - 16 A</td>
<td>7.4 kW - 32 A</td>
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<tr>
<td>Protection</td>
<td></td>
<td></td>
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<tr>
<td>Circuit breaker (overcurrent) (1)</td>
<td>20 A Curve C</td>
<td>40 A Curve C</td>
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<tr>
<td>RCD (residual current) (2)</td>
<td>30 mA A-SI Type (2)</td>
<td>30 mA A-SI Type (2)</td>
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<tr>
<td>Under voltage tripping auxiliary (3)(4)</td>
<td>IMNX</td>
<td>IMNX</td>
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</tbody>
</table>

(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.
EVlink Home and Home Smart

Range accessories

Charging stations dimensions

<table>
<thead>
<tr>
<th>With socket outlets</th>
<th>With attached cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>≈ 4.5 kg (9.92 lb)</td>
<td>≈ 8.8 kg (15.43 lb)</td>
</tr>
<tr>
<td>T2/T2S – 3.7 / 7.4 kW</td>
<td>– 3.7 / 7.4 kW</td>
</tr>
<tr>
<td>≈ 5.6 kg (12.34 lb)</td>
<td>≈ 9.9 kg (17.63 lb)</td>
</tr>
<tr>
<td>T2/T2S – 11 kW</td>
<td>– 11 kW</td>
</tr>
</tbody>
</table>

Accessory references

EVlink Cable

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

Additional information

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

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

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

1-phase Universal Peak Controller: EVA1HPC1
1-phase High Power Peak Controller: EVA2HPC1
3-phase Universal Peak Controller: EVA3HPC3
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

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

Certification
EVlink Pro AC has been certified according the IEC 61851-1 Ed3.0 standard by the DEKRA certification body

Standards
- IEC/EN 61851-1 Ed 3.0
- IEC/EN 62196-1 Ed 2.0 - IEC/EN 62196-2 Ed 1.0
- IEC 60364-7-722 Ed 2
- 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

Authorized by: Schneider Electric

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

Certification
EVlink Pro AC has been certified according the IEC 61851-1 Ed3.0 standard by the DEKRA certification body

Standards
- IEC/EN 61851-1 Ed 3.0
- IEC/EN 62196-1 Ed 2.0 - IEC/EN 62196-2 Ed 1.0
- IEC 60364-7-722 Ed 2
- 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

Authorized by: Schneider Electric

> ROHS compliant
> Reach compliant
> EoLi: End Of Life Process
> Product Environmental Profile compliant
### EVlink Pro AC

#### Charging station commercial references

<table>
<thead>
<tr>
<th>Commercial reference (1)(2)(7)</th>
<th>Type of socket</th>
<th>Domestic socket</th>
<th>Output current</th>
<th>Power kW</th>
<th>Number of phases</th>
<th>Embedded protection</th>
<th>Embedded protection (4)</th>
<th>Protection supplied</th>
<th>Embedded MID meter (6)</th>
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</tbody>
</table>

(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**

<table>
<thead>
<tr>
<th>Charging description</th>
<th>Single-phase</th>
<th>Three-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power - Current</td>
<td>7.4 kW - 32 A (5)</td>
<td>11 kW - 16 A (5)</td>
</tr>
</tbody>
</table>

**Protection**

<table>
<thead>
<tr>
<th>Protection description</th>
<th>Single-phase</th>
<th>Three-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit breaker (overcurrent)</td>
<td>40 A Curve C</td>
<td>20 A Curve C</td>
</tr>
</tbody>
</table>

**Delayed start**

<table>
<thead>
<tr>
<th>Relay description</th>
<th>Single-phase</th>
<th>Three-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>With normally open contact</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Temporary current limitation**

<table>
<thead>
<tr>
<th>Relay description</th>
<th>Single-phase</th>
<th>Three-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>With normally open contact</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(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.
**EVlink Pro AC and Pro AC Metal**

**Practical information**

### EVlink Pro AC dimensions (mm)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>317 mm</td>
<td>12 in.</td>
<td>12 in.</td>
<td>12 in.</td>
<td>12 in.</td>
</tr>
<tr>
<td>133 mm</td>
<td>5 in.</td>
<td>5 in.</td>
<td>5 in.</td>
<td>5 in.</td>
</tr>
<tr>
<td>110 mm</td>
<td>4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
</tr>
<tr>
<td>Ø 8.5 mm</td>
<td>0.25 in.</td>
<td>0.25 in.</td>
<td>0.25 in.</td>
<td>0.25 in.</td>
</tr>
<tr>
<td>110 mm</td>
<td>4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
<td>4 in.</td>
</tr>
<tr>
<td>Ø 8.5 mm</td>
<td>0.33 in.</td>
<td>0.33 in.</td>
<td>0.33 in.</td>
<td>0.33 in.</td>
</tr>
<tr>
<td>152.8 mm</td>
<td>6 in.</td>
<td>6 in.</td>
<td>6 in.</td>
<td>6 in.</td>
</tr>
<tr>
<td>530 mm</td>
<td>21 in.</td>
<td>21 in.</td>
<td>21 in.</td>
<td>21 in.</td>
</tr>
<tr>
<td>1,300...1,450 mm</td>
<td>51...57 in.</td>
<td>51...57 in.</td>
<td>51...57 in.</td>
<td>51...57 in.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guide(1)</td>
<td>EN / FR</td>
<td>NNZ1940301-00</td>
</tr>
<tr>
<td>EVlink Pro AC troubleshooting guide(2)</td>
<td>EN</td>
<td>JYT6692101</td>
</tr>
<tr>
<td>Technical specifications OCPP connectivity guide</td>
<td>EN</td>
<td>GEX1969200</td>
</tr>
<tr>
<td>EVlink Pro AC spare parts replacement</td>
<td>EN</td>
<td>GEX2273501</td>
</tr>
<tr>
<td>Technical specifications MODBUS connectivity guide</td>
<td>EN</td>
<td>GEX1969300</td>
</tr>
</tbody>
</table>

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

---

Watch the video
Practical information

EVlink Pro AC Metal dimensions (mm)

FS1CP: floor standing 1 charge point

<table>
<thead>
<tr>
<th>Dimension</th>
<th>FS1CP</th>
<th>FS2CP</th>
<th>WM1CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1360</td>
<td>1360</td>
<td>1360</td>
</tr>
<tr>
<td>Width</td>
<td>390</td>
<td>390</td>
<td>390</td>
</tr>
<tr>
<td>Depth</td>
<td>15.3</td>
<td>15.3</td>
<td>15.3</td>
</tr>
</tbody>
</table>

FS2CP: Floor standing 2 charge points

WM1CP: Wall mount 1 charge point

<table>
<thead>
<tr>
<th>WM1CP</th>
<th>FS2CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>230</td>
</tr>
<tr>
<td>Width</td>
<td>783</td>
</tr>
</tbody>
</table>

EVlink Pro AC 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

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Average assembly time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor standing 2 CP</td>
<td>90 to 110 min</td>
</tr>
<tr>
<td>Floor standing 1 CP</td>
<td>50 to 70 min</td>
</tr>
<tr>
<td>Wall mount 1 CP</td>
<td>50 to 70 min</td>
</tr>
</tbody>
</table>

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guides (1)</td>
<td>EN / FR</td>
<td>JYT24397</td>
</tr>
<tr>
<td>Instruction Guide EVlink Pro AC FS2CP</td>
<td>JYT24397</td>
<td></td>
</tr>
<tr>
<td>Instruction Guide EVlink Pro AC FS1CP</td>
<td>JYT24398</td>
<td></td>
</tr>
<tr>
<td>Instruction Guide EVlink Pro AC WM1CP</td>
<td>JYT24399</td>
<td></td>
</tr>
<tr>
<td>EVlink Pro AC trouble shooting guide (2)</td>
<td>EN</td>
<td>JYT6992101</td>
</tr>
<tr>
<td>Electrical diagram guide</td>
<td>EN</td>
<td>GEX2008002</td>
</tr>
<tr>
<td>eSetup commissioning app</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

To download the above documents, search by reference on www.se.com
EVlink Pro AC and Pro AC Metal

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

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

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
EVlink Pro AC Metal selection criteria

> EVlink Pro AC metallic kits

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

![EVlink Pro AC Metallic Kits](image)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVA1RWKS1C</td>
<td>EVlink metallic kit for AC wall mount charger 1 charge point</td>
</tr>
<tr>
<td>EVA1RFKS1</td>
<td>EVlink metallic kit for AC floor standing charger 1 charge point</td>
</tr>
<tr>
<td>EVA1RFKS2</td>
<td>EVlink metallic kit for AC floor standing charger 2 charge points</td>
</tr>
</tbody>
</table>

> 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:

<table>
<thead>
<tr>
<th>Commercial references</th>
<th>Type of socket</th>
<th>Domestic socket</th>
<th>Current output</th>
<th>Power kW</th>
<th>Number of phases</th>
<th>Embedded protection</th>
<th>Protection supplied</th>
<th>MID inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVB3S22N40MR</td>
<td>12S</td>
<td></td>
<td>32A</td>
<td>22</td>
<td>3PH</td>
<td>-</td>
<td>RCD B EV+MNx</td>
<td>Yes</td>
</tr>
</tbody>
</table>

> 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.

![Enclosures](image)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaedra 13960</td>
<td>No terminals</td>
</tr>
<tr>
<td>13960</td>
<td>T terminals</td>
</tr>
<tr>
<td>13444</td>
<td>T/N terminals</td>
</tr>
<tr>
<td>Thalassa EVA1RFKES</td>
<td>25 and 35 mm², IP66 270x360x180mm</td>
</tr>
<tr>
<td></td>
<td>1 Telequick plate</td>
</tr>
<tr>
<td></td>
<td>2 DIN rail 240 mm max</td>
</tr>
<tr>
<td></td>
<td>4 fixing brackets</td>
</tr>
<tr>
<td></td>
<td>Cable glands: 2xM32, 1xM12, 1x5G25/5G36</td>
</tr>
</tbody>
</table>
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

---

<table>
<thead>
<tr>
<th>EVlink Pro AC reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 1 Kaedra (optional)</th>
<th>To be installed in the distribution board</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVB3S22N40MR</td>
<td>MID meter</td>
<td>RCD (5) per charge point</td>
<td>RCD control circuit (6)</td>
</tr>
<tr>
<td></td>
<td>MNx</td>
<td>MNx</td>
<td>MCB control circuit</td>
</tr>
<tr>
<td></td>
<td>RCD (5) per charge point</td>
<td>RCD control circuit</td>
<td>Terminal connector</td>
</tr>
<tr>
<td></td>
<td>1 Supplied (8)</td>
<td>1 Asi Type</td>
<td>25 mm²</td>
</tr>
<tr>
<td></td>
<td>1 B-EV or Asi Type</td>
<td>1</td>
<td>MCB per charge point</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>RCD per charge point</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>SPD</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>MID meter</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>MNx</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>RCD per charge point</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>RCD per charge point</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>1</td>
<td>SPD (7)</td>
</tr>
<tr>
<td>EVB3S22N4A or</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S22N4B or EVB3S22NCAB</td>
<td>1</td>
<td>1 B-EV Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S22NCB or EVB3S22N4EB or EVB3S22N4FB</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S22N40M or EVB3S22NCOM or EVB3S22NC0EM or EVB3S22N40FM</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S22N4 or EVB3S22NAE or EVB3S22N4E</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S11N4A or EVB3S11NCBA</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S11N4FB or EVB3S11N4FC</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S07N4A or EVB3S07NCA or EVB3S07NC0A or EVB3S07N4EA</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S07N4AM or</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S07N4CAM or</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
<tr>
<td>EVB3S07N4EAM</td>
<td>1</td>
<td>1 B EV or Asi Type</td>
<td>1</td>
</tr>
</tbody>
</table>

(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) MCB per charge point: 1P+N 25 A 30 mA type AC, mandatory for TT network; strongly recommended for TNC / TNS network
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 Metal selection criteria

**Floor standing 2 charge points**

**1 cable entrance**

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

---

<table>
<thead>
<tr>
<th>EVlink Pro AC reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 2 Kaedra (optional)</th>
<th>To be installed in Thalassa</th>
<th>To be installed in the distribution board</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EVlink Pro AC Metal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x EVB3S22N40MR</td>
<td>2 - 2 - 2 (2)</td>
<td>2 Supplied (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x EVB3S22N40F</td>
<td>2 - 2 - 2 (2)</td>
<td>2 Supplied (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x EVB3S22N4A or EVB3S22N4B or EVB3S22N4E or EVB3S22N4FM</td>
<td>- 2 2 - - (4)</td>
<td>2 Asl Type (2)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S11N4A or EVB3S11NCA or EVB3S11N4FB</td>
<td>- 2 2 - - (4)</td>
<td>2 Asl Type (2)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S07N4A or EVB3S07NCA or EVB3S07N4EA</td>
<td>- 2 2 - - (4)</td>
<td>2 Asl Type (2)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S07N4AM or EVB3S07NCA or EVB3S07N4EAAM</td>
<td>2 2 2 - - (4)</td>
<td>-</td>
<td>1 2 (6)</td>
<td>-</td>
</tr>
</tbody>
</table>

(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 6 A 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

---

To be handled, assembled and installed by only one person.
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

<table>
<thead>
<tr>
<th>EVlink Pro AC reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 2 Kaedra (optional)</th>
<th>To be installed in the distribution board</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MID meter</td>
<td>MNx</td>
<td>RCD per charge point</td>
</tr>
<tr>
<td>2 x EVB3S22N40MR</td>
<td>2</td>
<td>-</td>
<td>2 Supplied (3)</td>
</tr>
<tr>
<td>2 x EVB3S22N40M or EVB3S22NC0M or EVB3S22N40EM or EVB3S22N40FM</td>
<td>2</td>
<td>-</td>
<td>2 Supplied (3)</td>
</tr>
<tr>
<td>2 x EVB3S22N4 or EVB3S22NE</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S22N4A or EVB3S22N4B or EVB3S22NCA or EVB3S22NCB or EVB3S22NEB or EVB3S22NEFB</td>
<td>-</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S11N4A or EVB3S11NCA or EVB3S11N4FB</td>
<td>-</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S07N4A or EVB3S07NCA or EVB3S07N4EA</td>
<td>-</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S07N4AM or EVB3S07NCAM or EVB3S07N4EAM</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

(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

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.

4G Kits
Embedded 4G modem with 2 internal antennas for EVlink Pro AC
Reference: EVA1MS
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: **NSYCLE10CSX**
- Quantity: 2 for WM1CP or 2 for FS1CP, or 4 for FS2CP

### Spare part references

<table>
<thead>
<tr>
<th>EVlink Pro AC front plate</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>EVP1SS</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EVlink Pro AC and Pro AC Metal - Socket outlets</th>
<th>References</th>
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<tbody>
<tr>
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<td><strong>EVP1SSS41</strong></td>
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<tr>
<td>3PH socket outlet T2S</td>
<td><strong>EVP1SSS43</strong></td>
</tr>
<tr>
<td>1PH socket outlet T2S - Domestic Tx (not supplied)</td>
<td><strong>EVP1SSS51</strong></td>
</tr>
<tr>
<td>3PH socket outlet T2S - Domestic Tx (not supplied)</td>
<td><strong>EVP1SSS53</strong></td>
</tr>
<tr>
<td>TE domestic socket</td>
<td><strong>EVP1SSSE</strong></td>
</tr>
<tr>
<td>TF domestic socket</td>
<td><strong>EVP1SSSF</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>EVlink Pro AC and Pro AC Metal - Attached cables</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2 charging connector</td>
<td><strong>EVP1CSS321C</strong></td>
</tr>
<tr>
<td>32 A single-phase 5 m length</td>
<td><strong>EVP1CSS321C</strong></td>
</tr>
<tr>
<td>32 A single-phase 7 m length</td>
<td><strong>EVP1CSL321C</strong></td>
</tr>
<tr>
<td>32 A three-phase 5 m length</td>
<td><strong>EVP1CSS323C</strong></td>
</tr>
<tr>
<td>32 A three-phase 7 m length</td>
<td><strong>EVP1CSL323C</strong></td>
</tr>
</tbody>
</table>

* Confirm availability with your local Schneider Electric sales.
Cables for EVlink™ Home and Pro AC ranges

Characteristics

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

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.

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?

<table>
<thead>
<tr>
<th>References</th>
<th>No. of phases</th>
<th>Charging power accepted (kW)</th>
<th>Cable length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 3</td>
<td>3.7 7.4 11 22</td>
<td></td>
</tr>
<tr>
<td>EVP1CNS32122</td>
<td></td>
<td>● ● ●</td>
<td>5</td>
</tr>
<tr>
<td>EVP1CNL32122</td>
<td></td>
<td>● ● ●</td>
<td>7</td>
</tr>
<tr>
<td>EVP1CNX32122</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>10</td>
</tr>
<tr>
<td>EVP1CNS32322</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>5</td>
</tr>
<tr>
<td>EVP1CNL32322</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>7</td>
</tr>
<tr>
<td>EVP1CNX32322</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>10</td>
</tr>
</tbody>
</table>

(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
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.
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 V ± 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
Energy management, software and digital services

Energy management ........................................................... p. 52

EcoStruxure™ EV Charging Expert ..................................... p. 54

EcoStruxure™ EV Advisor ................................................... p. 60
How to optimize the impact of the charging solution’s consumption on an electrical installation

The problem

Initial situation

Solution without energy management

Increase in subscribed power

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.

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

Dynamic energy management

**Electrical installation with energy management**

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

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

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.

**Discover more installation guidelines for EcoStruxure EV Charging Expert**
EcoStruxure™ EV Charging Expert

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 IoT 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

<table>
<thead>
<tr>
<th>Features</th>
<th>EcoStruxure EV Charging Expert with Static mode</th>
<th>EcoStruxure EV Charging Expert with Dynamic and Static modes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Number of EVlink charging stations</td>
<td>15 50 5 15 50 100</td>
</tr>
<tr>
<td>Power management</td>
<td>Dynamic, with a STATIC current setpoint</td>
<td>Dynamic, with a DYNAMIC current setpoint, or STATIC setpoint</td>
</tr>
<tr>
<td></td>
<td>Time of use / DI</td>
<td></td>
</tr>
<tr>
<td>Multi zone</td>
<td>Maximum number of zones</td>
<td>1 10 2 2 10 20</td>
</tr>
<tr>
<td></td>
<td>Maximum number of zone levels</td>
<td>1 3 2 2 3 3</td>
</tr>
<tr>
<td>Other loads</td>
<td>Power consumption reporting on other feeders</td>
<td></td>
</tr>
<tr>
<td>Badge management</td>
<td>VIP privilege user badge</td>
<td></td>
</tr>
<tr>
<td>Station management</td>
<td>VIP privilege charging station</td>
<td></td>
</tr>
</tbody>
</table>

(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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVLMSED2EDS</td>
<td>Upgrade EV Charging Expert dynamic 5 CS to 15 CS</td>
</tr>
<tr>
<td>EVLMSED2EDM</td>
<td>Upgrade EV Charging Expert dynamic 5 CS to 50 CS</td>
</tr>
<tr>
<td>EVLMSED2EDL</td>
<td>Upgrade EV Charging Expert dynamic 5 CS to 100 CS</td>
</tr>
<tr>
<td>EVLMSESS2EDS</td>
<td>Upgrade EV Charging Expert 15 CS from static to dynamic</td>
</tr>
<tr>
<td>EVLMSESS2ESM</td>
<td>Upgrade EV Charging Expert static from 15 CS to 50 CS</td>
</tr>
<tr>
<td>EVLMSESS2EDM</td>
<td>Upgrade EV Charging Expert from 15 CS static to 50 CS dynamic</td>
</tr>
<tr>
<td>EVLMSESS2EDL</td>
<td>Upgrade EV Charging Expert dynamic from 15 CS to 50 CS</td>
</tr>
<tr>
<td>EVLMSESM2EDM</td>
<td>Upgrade EV Charging Expert static 50 CS to 100 CS dynamic</td>
</tr>
<tr>
<td>EVLMSESM2EDL</td>
<td>Upgrade EV Charging Expert static 50 CS to dynamic 100 CS</td>
</tr>
<tr>
<td>EVLMSEM2EDM</td>
<td>Upgrade EV Charging Expert from 50 CS static to 50 CS dynamic</td>
</tr>
<tr>
<td>EVLMSEM2EDL</td>
<td>Upgrade EV Charging Expert dynamic from 50 CS to 100 CS</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Available power in the building allocated to EV charging</th>
<th>Delivered charging power</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.1 kW</td>
<td>![33.1 kW Diagram]</td>
<td>The full available energy is delivered.</td>
</tr>
<tr>
<td>17 kW</td>
<td>![17 kW Diagram]</td>
<td>The energy will be delivered according to an equal percentage, in this example: 51%. Details: 17 kW / 33.1 kW = 51%.</td>
</tr>
<tr>
<td>12 kW</td>
<td>![12 kW Diagram]</td>
<td>When reaching the minimum current setpoint of a charge point, its current level will be maintained so that the EV keeps charging. Details: Min. current for an EV to charge (according to IEC 61851) = 6 A, representing 1.4 kW of a 3.7 kW charging station. 12 - (3 x 1.4 kW) = 7.8 kW, that are provided by the 22 kW charging station.</td>
</tr>
<tr>
<td>7.5 kW</td>
<td>![7.5 kW Diagram]</td>
<td>If there is not enough power to feed all the charging stations, charge point load shedding will be triggered, following the load-shedding rules. Details: With 6 A (1.4 kW) per active charging station (IEC 61851 minimum current), the 7.5 kW of charging power are respected by switching off 1 charging station. 7.5 - (2 x 1.4 kW) = 4.7 kW, that are provided by the 22 kW charging station.</td>
</tr>
</tbody>
</table>
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

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

(1) May require specific development

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guides (1)</td>
<td>EN</td>
<td>EcoStruxure™ EV Charging Expert Installation Guide: DOCA0164</td>
</tr>
</tbody>
</table>

| 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 details ........................................... p. 98
> Possible IT network topologies ........................................... p. 98
> Typical load management architectures ........................................... p. 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.
**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

How do I renew and design? .............................................. p. 68
Consulting .................................................................................. p. 68

How do I install and comission? ........................................ p. 69
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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.

I want to switch my fleet to EV but I don’t know how to proceed

Transition plans, including advice on EV models and charging infrastructures.

I want to optimize my electrical distribution installation to power my EV charging infrastructure

Electrical installation, utility contracts and costs reduction opportunities, thanks to Schneider Electric core expertise.

I need support to operate and maintain my EV infrastructure

Network of certified partners providing high quality services.

I need the help of a professional to install and commission my EV infrastructure

Solution architecture and tool recommendations that optimize business continuity.

I want to strengthen the digital protection of my charging infrastructure

Comprehensive assessment of your EV charging network from cybersecurity experts with actionable recommendations.

I want my CO₂ footprint to be more sustainable

End-to-end green oriented solutions, from renewable energy production and storage to charge points.

I need support to operate and maintain my EV infrastructure

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

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brochure</td>
<td>EN</td>
<td>EVlink Warranty Extension: 998-21827492</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EVlink Commissioning Service: 998-21950800_B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EcoStruxure EV Charging Expert Upgrade and Commissioning package: 998-22046477</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>eMobility Services - Statement of work</th>
<th>EN</th>
<th>Warranty Extension: JYT9348100</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Remote Commissioning: PKR2869000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On-site commissioning: GEX5781900</td>
</tr>
</tbody>
</table>

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
eMobility Services

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
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.

➤ 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 issued 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
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

<table>
<thead>
<tr>
<th>Efficiency through expertise</th>
<th>• Direct access to Advanced Support Agents.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faster reactivity</td>
<td>• Dedicated Service Level Agreement on Initial Respond Time.</td>
</tr>
<tr>
<td>Easier to use</td>
<td>• Multi-channel communication (phone, chat and e-mail support)</td>
</tr>
<tr>
<td></td>
<td>• Schedule a session with experts.</td>
</tr>
<tr>
<td>Exclusive, personalized access</td>
<td>• mySchneiderPortal / Exclusive FAQ content</td>
</tr>
</tbody>
</table>
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.

Get in touch for support

Select your courses now on the technical training course finder

Learn more
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.

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
## Warranty Extension
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional 1-year Warranty Extension</td>
<td>EVlink Pro AC</td>
<td>EVS2W1B</td>
</tr>
<tr>
<td>Additional 3-year Warranty Extension</td>
<td>EVlink Pro AC</td>
<td>EVS2W3B</td>
</tr>
</tbody>
</table>

## Commissioning
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote assistance</td>
<td>Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert</td>
<td>EVS1CR0L</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert</td>
<td>EVS1CRSL</td>
</tr>
<tr>
<td></td>
<td>Max. 5 EVlink Pro AC charging stations</td>
<td>EVS1CR0</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations</td>
<td>EVS1CRS</td>
</tr>
<tr>
<td></td>
<td>Option: connection to a supervision solution</td>
<td>EVS1CRCPO</td>
</tr>
<tr>
<td>On-site</td>
<td>Max. 5 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert</td>
<td>EVS1CF0L</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert</td>
<td>EVS1CFSL</td>
</tr>
<tr>
<td></td>
<td>15 to 50 EVlink Pro AC charging stations with EcoStruxture EV Charging Expert</td>
<td>EVS1CFML</td>
</tr>
<tr>
<td></td>
<td>50 to 100 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1CFLL</td>
</tr>
<tr>
<td></td>
<td>Max. 5 EVlink Pro AC charging stations</td>
<td>EVS1CF0</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations</td>
<td>EVS1CF5</td>
</tr>
<tr>
<td></td>
<td>15 to 50 EVlink Pro AC charging stations</td>
<td>EVS1CFM</td>
</tr>
<tr>
<td></td>
<td>Option: connection to a supervision solution</td>
<td>EVS1CFCPO</td>
</tr>
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</table>

## Modernization
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Parking modernization</td>
<td>Upgrade of main circuit board, for 1 charge point</td>
<td>EVS1UF1B</td>
</tr>
<tr>
<td></td>
<td>Upgrade of main circuit board, for 2 charge point</td>
<td>EVS1UF2B</td>
</tr>
</tbody>
</table>
Electrical Distribution for eMobility

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Metering solutions .............................................................................. p. 88
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

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.
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Home</td>
<td>EV Charging Station</td>
<td>1</td>
<td>Refer to EVlink Home (p. 8)</td>
</tr>
<tr>
<td>Acti9 iCV40N 1P+N</td>
<td>Residual current breaker with overcurrent protection Type A-SI</td>
<td>1</td>
<td>Specific to country</td>
</tr>
<tr>
<td>Acti9 iMNx</td>
<td>Undervoltage release tripping unit</td>
<td>1</td>
<td>A9A26476</td>
</tr>
</tbody>
</table>
B EV Type earth leakage protection

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

➢ Acti9 iID 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 iID 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 iID 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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC Metal</td>
<td>22kw 32A 3PH T2S SOCKET MID embedded - RCD B EV MNX supplied</td>
<td>2</td>
<td>EVB3522N40MR</td>
</tr>
<tr>
<td>EVlink Pro AC Metal kit</td>
<td>EVlink metallic kit for AC floor standing charger 2 charge points</td>
<td>1</td>
<td>EVA1RFKS2</td>
</tr>
<tr>
<td>Kaedra enclosure</td>
<td>IP65 1 x 12 modules of 18mm - 267 x 200 x 112 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acti9 iMNx supplied with EVlink Pro AC</td>
<td>Undervoltage release tripping unit</td>
<td></td>
<td>A9A26969</td>
</tr>
<tr>
<td>Acti9 iID 2P 40A 30mA B type EV</td>
<td>RCCB for EV charging station</td>
<td>2</td>
<td>A9Z51240</td>
</tr>
<tr>
<td>MCB 3P+N 40A C curve 6kA/10kA</td>
<td>MCB per charge point</td>
<td>2</td>
<td>Specific to country</td>
</tr>
<tr>
<td>MCB 4P 80A C curve 10kA</td>
<td>MCB protection for EVlink Pro AC Metal in the switchboard</td>
<td>1</td>
<td>Specific to country</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>A9A26969</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Uc] control circuit voltage</td>
<td>220...240 V AC 50/60 Hz</td>
</tr>
<tr>
<td>Control type</td>
<td>With external feeding</td>
</tr>
<tr>
<td>9 mm pitches</td>
<td>2</td>
</tr>
<tr>
<td>Width</td>
<td>18 mm</td>
</tr>
</tbody>
</table>

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

PowerLogic Power meter

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

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.

iEM Energy meters - MID

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>A9MEM2155</th>
<th>A9MEM3155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>Modbus</td>
<td>Modbus</td>
</tr>
<tr>
<td>Accuracy class</td>
<td>Class 1 active energy conforming to IEC 62053-21</td>
<td>Class 1 active energy conforming to IEC 62053-21</td>
</tr>
<tr>
<td></td>
<td>Class 2 reactive energy conforming to IEC 62053-23</td>
<td>Class 1 active energy conforming to IEC 61557-12</td>
</tr>
<tr>
<td></td>
<td>Class B active energy conforming to EN 50470-3</td>
<td>Class B active energy conforming to EN 50470-3</td>
</tr>
<tr>
<td>Width</td>
<td>36 mm</td>
<td>90 mm</td>
</tr>
<tr>
<td>Poles description</td>
<td>1P+N</td>
<td>3P+N</td>
</tr>
<tr>
<td></td>
<td>1P+N</td>
<td>3P</td>
</tr>
</tbody>
</table>

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 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

**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**

- **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
- **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
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.

- **Canalis busbar trunking system**

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

2-pole and 4-pole pre-assembled and pre-cabled kits for 1x8-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

<table>
<thead>
<tr>
<th>Charging station power</th>
<th>Description of the kit</th>
<th>Included</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>Tap-off unit</td>
<td>MCB</td>
<td>RCD</td>
</tr>
<tr>
<td>3.7</td>
<td>Protection kit Canalis KN 8 mod. 2P MCB 25 A RCD B EV</td>
<td>KNB63SM48</td>
<td>A9F07220</td>
</tr>
<tr>
<td>7.4</td>
<td>Protection kit Canalis KN 8 mod. 2P MCB 40 A RCD B EV</td>
<td>A9F07240</td>
<td>A9Z51240</td>
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<tr>
<td>11</td>
<td>Protection kit Canalis KN 8 mod. 4P MCB 25 A RCD B EV</td>
<td>A9F07420</td>
<td>A9Z51425</td>
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<tr>
<td>22</td>
<td>Protection kit Canalis KN 8 mod. 4P MCB 40 A RCD B EV</td>
<td>A9F07440</td>
<td>A9Z51440</td>
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</tbody>
</table>

Canalis KS, distribution from 100 to 1000 A

<table>
<thead>
<tr>
<th>Charging station power</th>
<th>Description of the kit</th>
<th>Included</th>
<th>References</th>
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<tbody>
<tr>
<td>kW</td>
<td>Tap-off unit</td>
<td>MCB</td>
<td>RCD</td>
</tr>
<tr>
<td>3.7</td>
<td>Protection kit Canalis KS 8 mod. 2P MCB 25 A RCD B EV</td>
<td>KSB63SM48</td>
<td>A9F07220</td>
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<tr>
<td>7.4</td>
<td>Protection kit Canalis KS 8 mod. 2P MCB 40 A RCD B EV</td>
<td>A9F07240</td>
<td>A9Z51240</td>
</tr>
<tr>
<td>11</td>
<td>Protection kit Canalis KS 8 mod. 4P MCB 25 A RCD B EV</td>
<td>A9F07420</td>
<td>A9Z51425</td>
</tr>
<tr>
<td>22</td>
<td>Protection kit Canalis KS 8 mod. 4P MCB 40 A RCD B EV</td>
<td>A9F07440</td>
<td>A9Z51440</td>
</tr>
</tbody>
</table>

Electrical distribution architectures

- Centralized distribution
- Canalis distribution (decentralized)

* Check availability in your country
Appendix

Electric Vehicle additional information ........................................ p. 94
  How does it work?........................................................................................................... p. 94
  The charging mode determines the protection level.............................................. p. 95
  Mode 2, Mode 3 or Mode 4 determines the type of charging connectors .... p. 95
  The effective charging capacity is that of the weakest "link".............................. p. 96
  The power of the source determines the charging speed................................. p. 96
  Electric Vehicle standards .................................................................................. p. 97

EcoStruxure™ EV Charging Expert ......................................................... p. 98
  Possible IT network topologies ........................................................................... p. 98
  Typical load management architectures .............................................................. p. 99

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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

<table>
<thead>
<tr>
<th>Mode</th>
<th>Protection Level</th>
<th>Description</th>
</tr>
</thead>
</table>
| Mode 1 | Low              | Direct connection of the vehicle to the grid  
- Non-dedicated power socket (domestic socket)  
- Simple cable  
- Risk of overheating  
- Prohibited in the United States |
| Mode 2 | Acceptable       | Direct connection of the vehicle to the grid  
- Non-dedicated power socket  
- Cable with communicating charge monitoring device |
| Mode 3 | High             | Direct connection of the vehicle to the grid  
- Dedicated power socket incorporating charge monitoring  
- Dedicated cable (attached to the charging station or not) |
| Mode 4 |                  | Indirect connection of the vehicle to the grid via an external charger  
- Direct-current external charger incorporating charge monitoring  
- Dedicated attached cable |

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

**Mode 2**
- Vehicle inlet
- Domestic socket
- Type 2

**Mode 3**
- Car inlet
- Socket outlet or attached cable
- Type 2
- CCS Combo 2

**Mode 4**
- Car inlet
- DC charging station
- Type 2
- CHAdeMO
- Combo 2
- Attached cable

**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.

*Focus on technology*
Appendix

Electric Vehicle additional information

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

<table>
<thead>
<tr>
<th>Vehicle charger</th>
<th>Cable/charging mode</th>
<th>Charging point</th>
<th>Effective charging capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 kW</td>
<td>2.3 kW (Mode 2)</td>
<td>Domestic power socket</td>
<td>2.3 kW</td>
</tr>
<tr>
<td>7 kW</td>
<td>7.4 kW (Mode 3)</td>
<td>Charging station</td>
<td>7.4 kW</td>
</tr>
</tbody>
</table>

The power of the source determines the charging speed*

Example: for a vehicle with a 40 kWh battery:

<table>
<thead>
<tr>
<th>Source used</th>
<th>Domestic power socket</th>
<th>Dedicated AC power socket</th>
<th>Dedicated DC power socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Single-phase: 2.3 kW</td>
<td>Single-phase: 7.4 kW</td>
<td>Three-phase: 22 kW</td>
</tr>
<tr>
<td>Time to a full charge</td>
<td>18 h</td>
<td>7 h</td>
<td>2h30 min</td>
</tr>
<tr>
<td>% of charge reached in 30 min</td>
<td>3%</td>
<td>7%</td>
<td>20%</td>
</tr>
</tbody>
</table>

* 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:

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.

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)

Learn more

Wiki Guide for electric vehicle charging

White Paper Safety measures for electric vehicle charging
Possible IT network topologies

▶ Star topology

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.

Modicon Managed and Unmanaged Switches

Unmanaged switch for star topology

- 8 ports for copper
  - MCSESU083FN0

Managed switch for ring and daisy chain topologies

- 4 ports for copper
  - MCSESU053FN0

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

Quick link to the complete range of Modicon Switches

Number of chargers depends on the switch capacity

Up to 100 chargers for 1 EcoStruxure EV Charging Expert

Daisy chain loop topology

Number of chargers depends on the switch capacity

Daisy chain 10 chargers max.

Daisy chain 20 chargers max.

Daisy chain 20 chargers max.

Daisy chain 20 chargers max.

Daisy chain 10 chargers max.

Daisy chain 10 chargers max.

Daisy chain 10 chargers max.

Daisy chain 10 chargers max.

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Number of chargers depends on the switch capacity

Up to 100 chargers for 1 EcoStruxure EV Charging Expert

Daisy chain topology

Daisy chain 10 chargers max.

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Daisy chain 10 chargers max.

Daisy chain 10 chargers max.

Daisy chain 10 chargers max.
Typical load management architectures

Static load management:

**Single-zone**

- **EV panel board**
- **EcoStruxure EV Charging Expert**
- **Zone 1**
  - Fixed current setpoint determined according to the capacity of the divisional panel board

**Multi-zone (multiple switchboards)**

- **EcoStruxure EV Charging Expert²**
- **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

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

- **EcoStruxure EV Charging Expert²**
  - From 1 to 5 stations in total, in a maximum of 2 zones: ref. HMIBSCEA53D1EDB
  - From 1 to 15 stations in total, in one 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
EcoStruxure™ EV Charging Expert

Typical load management architectures

* Dynamic load management

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 in a maximum of 2 zones:
  - HMIBSCEA53D1EDB
- Up to 15 stations in a maximum of 2 zones:
  - HMIBSCEA53D1EDS
- Up to 50 stations in a maximum of 10 zones:
  - HMIBSCEA53D1EDM
- Up to 100 stations in a maximum of 20 zones:
  - HMIBSCEA53D1EDL

(1) No more than 3 cascaded zones.
To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 55.
## List of commercial references

### EVlink™ Home and Home Smart

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>References (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Charging stations with socket outlet</strong></td>
<td></td>
</tr>
<tr>
<td>T2</td>
<td></td>
</tr>
<tr>
<td>3.7 kW (1P - 16 A)</td>
<td>EVH4S03N2</td>
</tr>
<tr>
<td>7.4 kW (1P - 32 A)</td>
<td>EVH4S07N2</td>
</tr>
<tr>
<td>11 kW (3P - 16 A)</td>
<td>EVH4S11N2</td>
</tr>
<tr>
<td>T2 with shutter</td>
<td></td>
</tr>
<tr>
<td>3.7 kW (1P - 16 A)</td>
<td>EVH4S03N4</td>
</tr>
<tr>
<td>7.4 kW (1P - 32 A)</td>
<td>EVH4S07N4</td>
</tr>
<tr>
<td>11 kW (3P - 16 A)</td>
<td>EVH4S11N4</td>
</tr>
<tr>
<td><strong>Charging stations with attached cable (5 m)</strong></td>
<td></td>
</tr>
<tr>
<td>3.7 kW (1P - 16 A)</td>
<td>EVH4S03NC</td>
</tr>
<tr>
<td>7.4 kW (1P - 32 A)</td>
<td>EVH4S07NC</td>
</tr>
<tr>
<td>11 kW (3P - 16 A)</td>
<td>EVH4S11NC</td>
</tr>
</tbody>
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### Characteristics with TIC*                        |                |

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>References (1)</th>
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<tbody>
<tr>
<td>EVlink Home 1P T2S 3.7 kW 16 A - with RDC-DD - TIC</td>
<td>EVH4S03N400F</td>
</tr>
<tr>
<td>EVlink Home 1P T2S 7.4 kW 32 A - with RDC-DD - TIC</td>
<td>EVH4S07N400F</td>
</tr>
<tr>
<td>EVlink Home 3P T2S 11 kW 16 A - with RDC-DD - TIC</td>
<td>EVH4S11N400F</td>
</tr>
<tr>
<td>EVlink Home Smart 1P T2S 3.7 kW 16 A - with RDC-DD</td>
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</tr>
<tr>
<td>EVlink Home Smart 1P T2S 7.4 kW 32 A - with RDC-DD</td>
<td>-</td>
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<tr>
<td>EVlink Home Smart 3P T2S 11 kW 16 A - with RDC-DD</td>
<td>-</td>
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*Only for France

### Accessories

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>References (1)</th>
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<tbody>
<tr>
<td>Peak controller</td>
<td></td>
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<tr>
<td>1 Phase Universal Peak Controller</td>
<td>EVA1HPC1</td>
</tr>
<tr>
<td>1 Phase High Power Peak Controller</td>
<td>EVA2HPC1</td>
</tr>
<tr>
<td>3 Phase Universal Peak Controller</td>
<td>EVA1HPC3</td>
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</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
### EVlink™ Pro AC and Pro AC Metal

#### Characteristics

<table>
<thead>
<tr>
<th>Charging stations with socket outlet</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX</td>
<td>EVB3S07N4A</td>
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<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S07N4AM</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S07N4EAM</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA RCD Type Asi MNX</td>
<td>EVB3S07N4EA</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S07N40M</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S TE SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S07N40EM</td>
</tr>
<tr>
<td>EVlink Pro AC 11 kW 16 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX</td>
<td>EVB3S11N4A</td>
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<tr>
<td>EVlink Pro AC 11 kW 16 A 3PH T2S TE SOCKET 6 mA RCD Type Asi MNX</td>
<td>EVB3S11N4E</td>
</tr>
<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX</td>
<td>EVB3S22N4A</td>
</tr>
<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET 6 mA RCD Type Asi MNX</td>
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<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX</td>
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<td>EVlink Pro AC 22 kW 32 A 3PH T2S SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S22N40MR</td>
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<td>EVlink Pro AC 22 kW 32 A 3PH T2S TE SOCKET 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S22N400MR</td>
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<table>
<thead>
<tr>
<th>Charging stations with attached cable</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD Type Asi MNX</td>
<td>EVB3S07NCA</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD Type Asi MNX MID</td>
<td>EVB3S07NCAM</td>
</tr>
<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH Attached Cable 6 mA RCD-DC and MNX supplied</td>
<td>EVB3S07NC0</td>
</tr>
<tr>
<td>EVlink Pro AC 11 kW 16 A 3PH Attached Cable 6 mA RCD Type Asi MNX</td>
<td>EVB3S11NCA</td>
</tr>
<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH Attached Cable 6 mA RCD Type Asi MNX</td>
<td>EVB3S22NCA</td>
</tr>
<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH Attached Cable RCD Type B EV MNX</td>
<td>EVB3S22NCB</td>
</tr>
<tr>
<td>EVlink Pro AC 22 kW 32 A 3PH Attached Cable MID 6 mA and MNX supplied</td>
<td>EVB3S22NC0M</td>
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</table>

#### Accessories

<table>
<thead>
<tr>
<th>Pack of 10 RFID Badges</th>
<th>References</th>
</tr>
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<tbody>
<tr>
<td>EVlink Pro AC Metal charger</td>
<td>EVP1BNS</td>
</tr>
<tr>
<td>Permanent T2S socket cable holder EVlink Pro AC</td>
<td>EVA1PLS1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pedestal</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestal for 1 EVlink Pro AC Charger</td>
<td>EVA1PBS1</td>
</tr>
<tr>
<td>Pedestal for 2 EVlink Pro AC Chargers</td>
<td>EVA1PBS2</td>
</tr>
<tr>
<td>Plate to convert Pedestal for 1 charger to Pedestal for 2 EVlink Pro AC</td>
<td>EVA1PC82</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metallic kits</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC Metal wall mount 1 charge point kit</td>
<td>EVA1RWKS1</td>
</tr>
<tr>
<td>EVlink Pro AC Metal floor standing 1 charge point kit</td>
<td>EVA1RFSK1</td>
</tr>
<tr>
<td>EVlink Pro AC Metal floor standing 2 charge points kit</td>
<td>EVA1RFK52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thalassa PLS box kit IP66 power cable 25 35 kV</td>
<td>EVA1RFKES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication interface</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>4G kit - embedded modem with 2 internal antennas for EVlink Pro AC</td>
<td>EVA1MS</td>
</tr>
<tr>
<td>4G kit - embedded 4G modem with an external antenna for EVlink Pro AC Metal</td>
<td>EVA1MM</td>
</tr>
</tbody>
</table>

### Charging cables

<table>
<thead>
<tr>
<th>EVlink charging cables</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2-T2 plug connector 32 A 1 Phase 5 m length</td>
<td>EVP1CNS32122</td>
</tr>
<tr>
<td>T2-T2 plug connector 32 A 1 Phase 7 m length</td>
<td>EVP1CNS32122</td>
</tr>
<tr>
<td>T2-T2 plug connector 32 A 1 Phase 10 m length</td>
<td>EVP1CNS32122</td>
</tr>
<tr>
<td>T2-T2 plug connector 32 A 3 Phase 5 m length</td>
<td>EVP1NCS32322</td>
</tr>
<tr>
<td>T2-T2 plug connector 32 A 3 Phase 7 m length</td>
<td>EVP1CLN32322</td>
</tr>
<tr>
<td>T2-T2 plug connector 32 A 3 Phase 10 m length</td>
<td>EVP1CNS3232</td>
</tr>
</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
### List of commercial references

<table>
<thead>
<tr>
<th>Spare parts</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front panel</td>
<td></td>
</tr>
<tr>
<td>SE white front plate EVlink Pro AC</td>
<td>EVP1SSS</td>
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<td>EVP1CSSS23C</td>
</tr>
<tr>
<td>T2 attached cable 1PH 32 A 5 meter length EVlink Pro AC</td>
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<td>T2 attached cable 3PH 32 A 7 meter length EVlink Pro AC</td>
<td>EVP1CSSS323C</td>
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<tr>
<td>T2 attached cable 1PH 32 A 7 meter length EVlink Pro AC</td>
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### EVlink™ Pro AC and Pro AC Metal Services

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(1) References to be defined and local availability to be checked by Schneider Electric front offices.
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(1) References to be defined and local availability to be checked by Schneider Electric front offices.
### List of commercial references

#### EcoStruxure™ EV Charging Expert

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## eMobility Services

### Warranty Extension

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