EVlink

Catalog 2020

Electric vehicle charging solutions

se.com

Life Is On | Schneider Electric

Green Premium™

An industry leading portfolio of offers delivering sustainable value

Green Premium™

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

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

CO_2 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 CO_2 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.

Discover what we mean by green
Check your products!

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

Contents

Presentation
EVlink charging solutions: giving confidence in the future p. 4

How it Works p. 7
The electric vehicle p. 8
Where to charge p. 9
Charging p. 10

The EVlink Product Range p. 13
9 selection criteria for charging station p. 14
Energy management p. 16
Communicating charging stations p. 18
Overview of EVlink offer p. 20
EVlink Wallbox p. 22
EVlink Smart Wallbox p. 28
EVlink Parking p. 34
EVlink DC Fast Charge p. 42
EVlink AC charging station testing tool p. 44
EVlink cables p. 46

Managing the Charging Station Energy p. 49
EVlink Load Management System p. 50
Typical load management architectures p. 54
IT network possible topologies p. 57
Metering solutions p. 58

EVlink Electrical distribution p. 61
Electrical distribution p. 62

Solutions for Your Project p. 65
Solutions for your project p. 66
"Turnkey" project p. 67
Services for contractors p. 68
Services for operators p. 69

List of References p. 71

EVlink charging solutions:

giving confidence in the future

125,000 stations in 50 countries

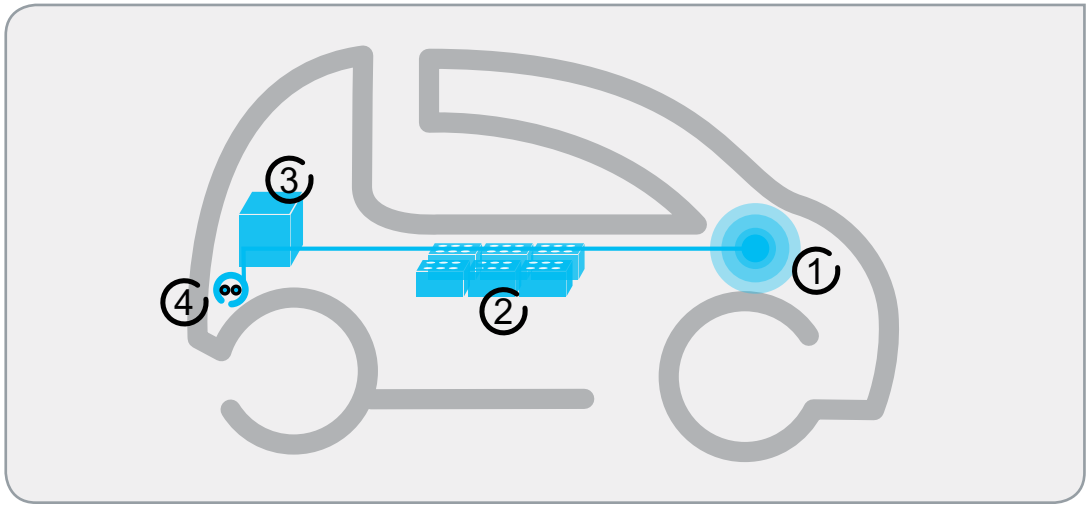
" Worldwide availability of our charging station and service offers is the best proof of our long-term engagement "

Ladestasjon for elbil
2340
Schneider Electric
EVlink

How it Works

The electric vehicle

4 major items:



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

Battery technology has made very significant progress 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.

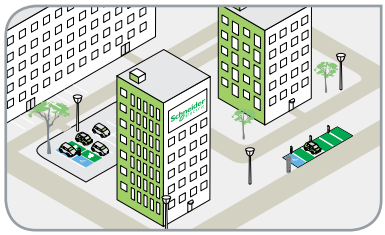
Where to charge

At home

A charging station for private use installed in the garage.

At home — condominium

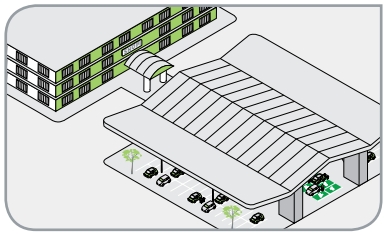
A charging station for indoor or outdoor use, installed in a private parking place.



At work

More and more companies have installed charging stations in their own parking areas. They have a choice of whether users can charge their batteries for free or pay a fee.

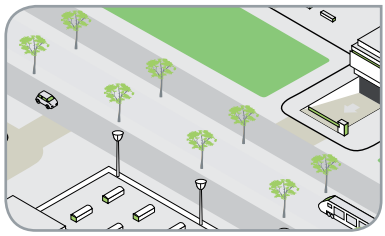
Municipal fleets and the fleets of delivery services, as well as government departments generally have parking areas fully equipped to charge their electric vehicles.



In private parking area

To meet new customer demands, the operators of public and semi-public parking areas (for instance, commercial buildings, shopping malls, restaurants, hotels, hospitals, etc.), frequently offer EV charging services. Charging stations can generally be accessed with a badge or a mobile app based on various commercial conditions.

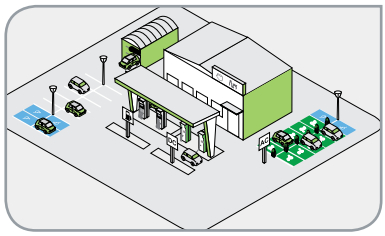
Municipalities and car park managers are now developing these services.



On street

Involved in new green mobility deployment, municipalities are giving access to a network of charging stations located on the street or in public parking areas. Charging stations can generally be accessed with a badge or thanks to a Smartphone App., based on various commercial conditions.

Electric car sharing is another service offer that municipalities now promote. Charging station networks allow combined use by car-sharing services and electric vehicle drivers.

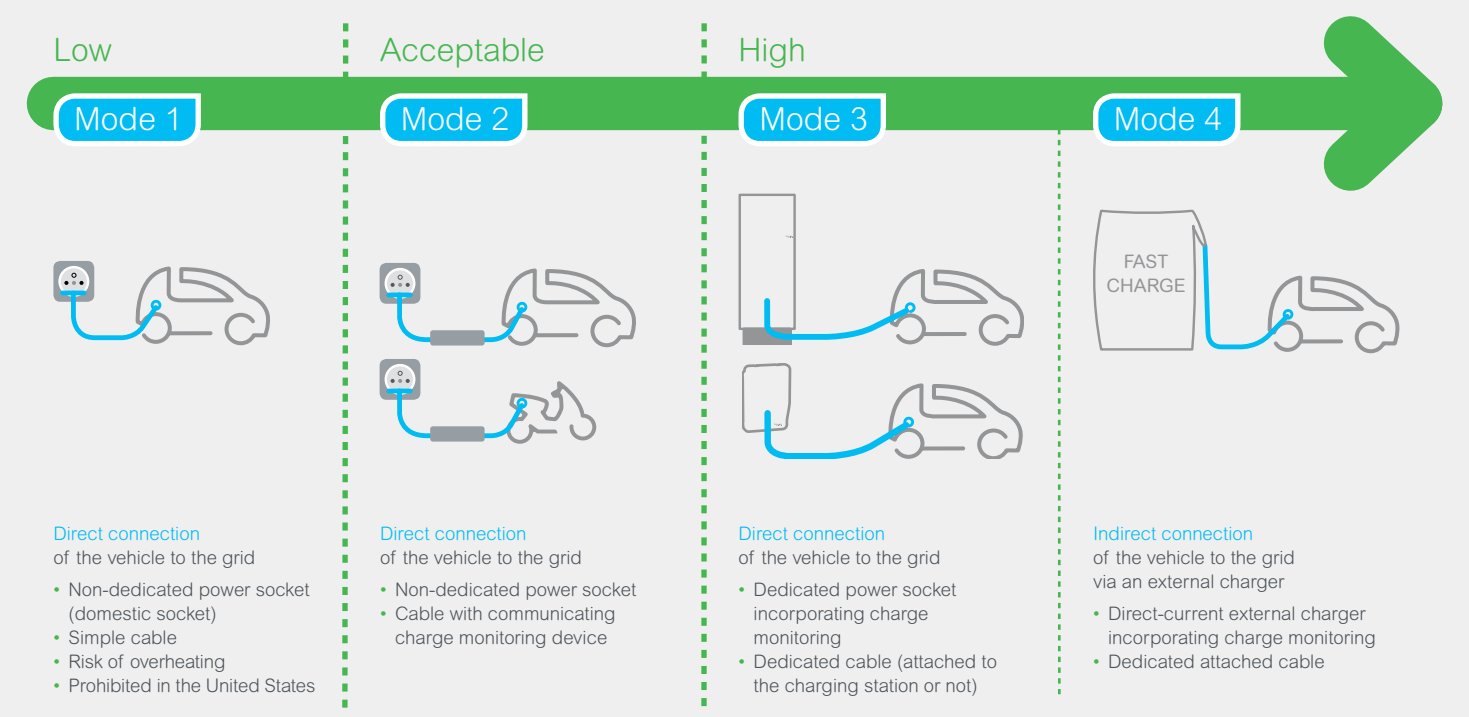


At service station

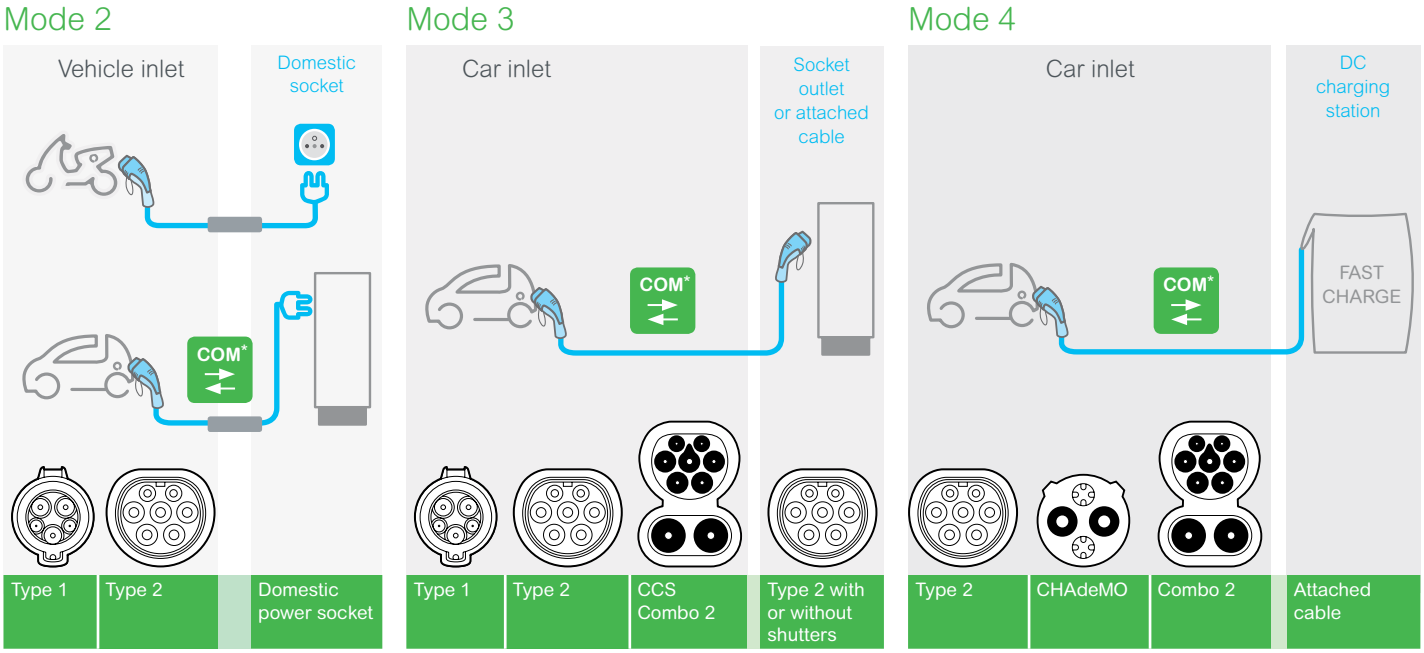
Service stations equipped for fast charging are appearing at test locations in some countries. Customers use the less than 30 minutes charging time to take a break or shop in the supermarket.

Charging

The charging mode determines the protection level



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



*Focus on technology

Charging cable

A "COM" wire allows data communication between the vehicle and the charging station. The charging process starts only if the following information is OK:
- Vehicle earthing
- Indication of the charging cable rating.

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

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

The power of the source determines the charging speed*

Example: for a vehicle with a 40 kWh battery:

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

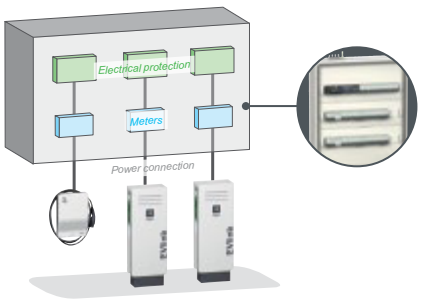
(*) Subject to the use of a suitable cable.

Focus on technology

Electrical distribution architecture

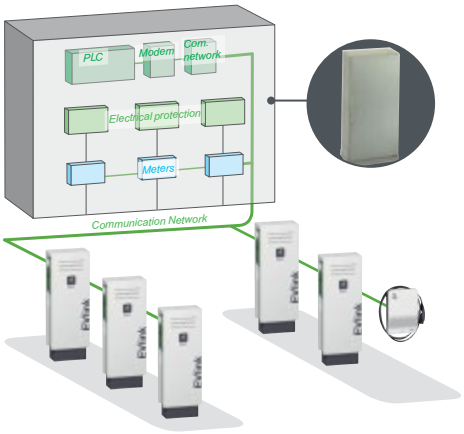
Standalone

One or several charging stations can be connected to the same protection panel. The protection could also be installed in the Parking station floor base (see chapter page 34).
Each charging station operates independently.
They are protected upstream and their consumption can be measured. The charging stations can be connected to a supervision.



Clustered

An alternative way is to manage energy availability:
EVlink Load Management System.
It makes it possible to consider various needs related to the use of the vehicles that will be charged. A cluster consists of charging stations, from 3 to 1000 charging stations, controlled by EVlink Load Management System, power meter, 3G/4G modem, etc., that can be connected to a supervision.



EVlink

The EVlink Product Range

Electric vehicle charging stations

9 selection criteria for charging station

Electrical

Power per socket	**3.7 kW - 7.4 kW**	**11 kW - 22 kW**	**22 kW (AC) - 24 kW (DC)**	
	▲ *Single-phase main supply.*	▲ *Three-phase main supply.*		
Charging mode	**Mode 2**	**Mode 3**	**Mode 4**	
	▲ *Use of charging cable equipped with its control interface.*	▲ *Advanced charging control with communication between station and vehicle. Use of direct charging cable.*	▲ *Advanced charging control with communication between station and vehicle for DC charging mode.*	
Socket outlet	**Domestic**	**Type 2**	**Attached cable type 1** **Attached cable type 2**	**Combo 2** **CHAdeMO**
	▲ *Up to 2.3 kW*	▲ *Up to 22 kW*	▲ *AC type 1: up to 7.4 kW* *AC type 2: up to 22 kW*	▲ *24 kW*

Usage

Socket outlet access	**Free access**	**Key**	**Authentication**
		▲ *Key lock.*	▲ *Access with RFID badge or via Smartphone apps for connected stations. Function depending whether connected station or not.*
Load management	**Optimized Cost & Service continuity**	**Optimized charging time**	**Optimized charging station management**
	▲ *C1-type: 'Optimized cost'* *> delayed start or temporary current limitation.* *C2-type: 'Opt. cost + Service continuity'* *> delayed start or temporary current limitation* *> real-time max charging current control.*	▲ *For not connected charging station.* *Remaining available power is split between the 2 cars, giving priority to the one with less energy or time already allocated, to prevent tripping.*	▲ *For charging station cluster connected to a facility network.* *A global energy management is provided (facility network + stations) in order to preserve site or building services availability and optimize vehicle charging.*
Connectivity	**Yes - No**		
	▲ *Enabling communication (wired, 3G/4G modem) to the cloud-based supervision.*		

Installation

Mounting	**On Wall**		**On Floor**	
	▲ *Cabinet fixed on wall.*		▲ *Cabinet with integrated or separate pole.*	
Protection	**Electrical**		**Mechanical IP54**	**Mechanical IK10**
	▲ *D-type: built-in DC fault current detection (RDC-DD)* *I-type: protection devices can be installed on pedestal;* *F-type: factory mounted protection device.*		▲ *Protection from dust, splashing water. Outdoor use is possible.*	▲ *Resistance to pendulum shock: mass of 5 kg, 40 cm string.*
Aspect	**Stylish**	**Robust**	**Robust +**	
	▲ *White resistant plastic casing.*	▲ *Metallic casing.*	▲ *Antivandalism features. Metallic casing, extra keyboard protection.*	

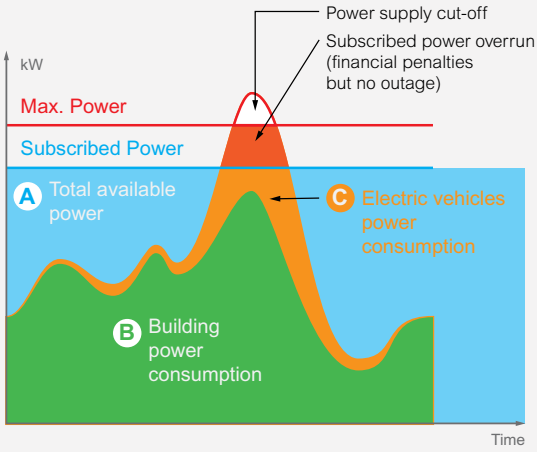
	EVlink Wallbox		EVlink Smart Wallbox	EVlink Parking	For eligible countries EVlink DC Fast Charge
	'Standard'	'Plus'	Cloud-connectable	Cloud-connectable	Cloud-connectable
Charging power (kW)	3.7 7.4 11 22	3.7 7.4 11 22	7.4 22	7.4 22	22 (AC) 24 (DC)
Charging mode	3	3	2 3	2 3	3 4
2 *Mode 2* 3 *Mode 3* 4 *Mode 4*					
Socket outlet Attached cable	T2 ACT1 ACT2	T2 ACT1 ACT2	T2 T2+D ACT1 ACT2	T2 T2+D T2+T2	ACT CHAdeMO ACT Combo 2 T2 22 kW (AC)
D *Domestic* ACT1 *Att. cable with plug Type 1* ACT2 *Att. cable with plug Type 2* T2 *Plug type 2 (optional shutter)*					
Charging access	F K	F K	F K A	F A	F A
F *Free access* K *Key lock* A *Authentication*					
Load management	C1	C2	C1+M	C1+T+M	M
C1 *Optimized Cost* C2 *Opt. Cost + Service Continuity* T *Opt. Charging Time* M *Opt. Station Management*					
Connectivity	N	N	N Y	N Y	N Y
Y *Yes (ready to connectivity)* N *No*					
Mounting	W F	W F	W F	W F	W F
W *Wall* F *Floor*					
Protection Elec IP/IK	• 54/10	D 54/10	• 54/10	I 54/10	F 54/10
D *Built-in DC filter* I *Possible on-site mounting* F *Factory-mounted* 54 *Dust + splashing water* 10 *5 kg shock*					
Aspect	S	S	S	R	R+
S *Stylish* R *Robust* R+ *Robust +*					

Energy management

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

The problem

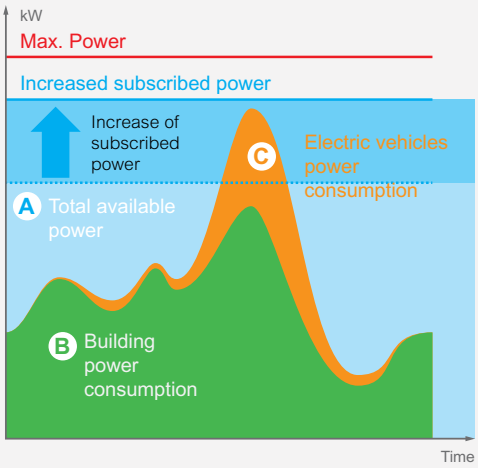
Initial situation



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

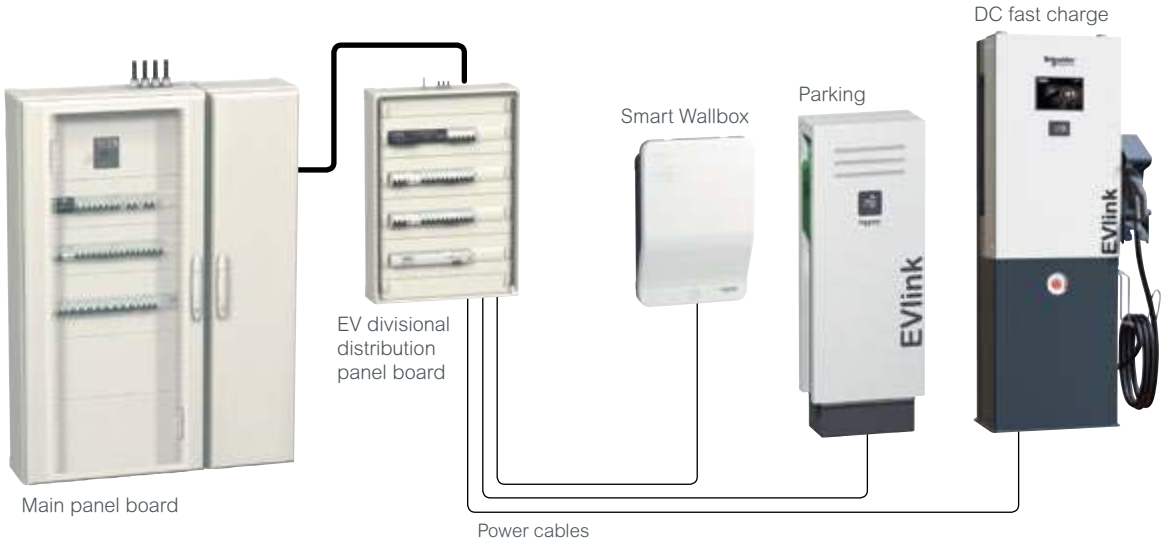
Solution without energy management

Increase of subscribed power



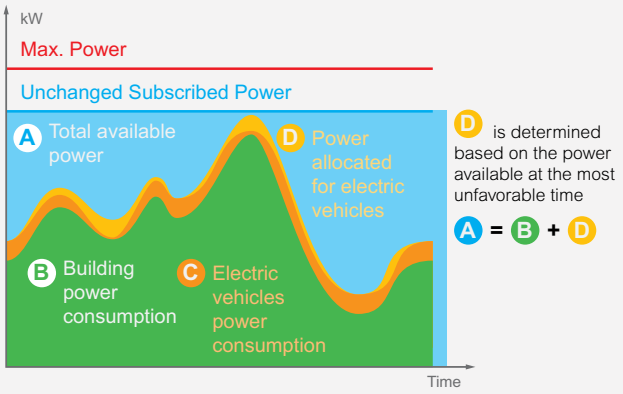
This solution consists of increasing the power subscribed to the energy supplier to maintain the same consumption model. It implies an increase in the cost of the subscription and does not guarantee that the trigger threshold will never be exceeded. Thus the continuity of service of the building is not guaranteed.

Electrical installation without energy management



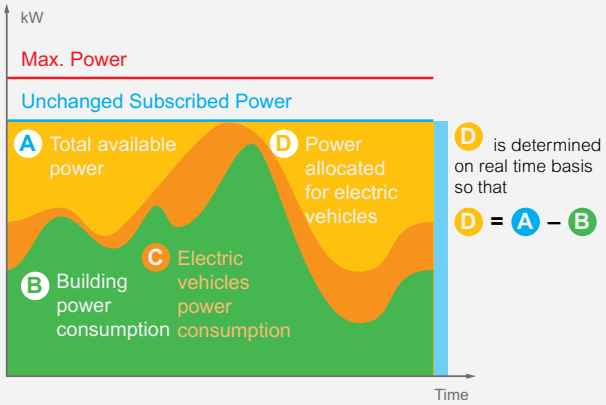
Schneider Electric solutions

Static energy management



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

Dynamic energy management



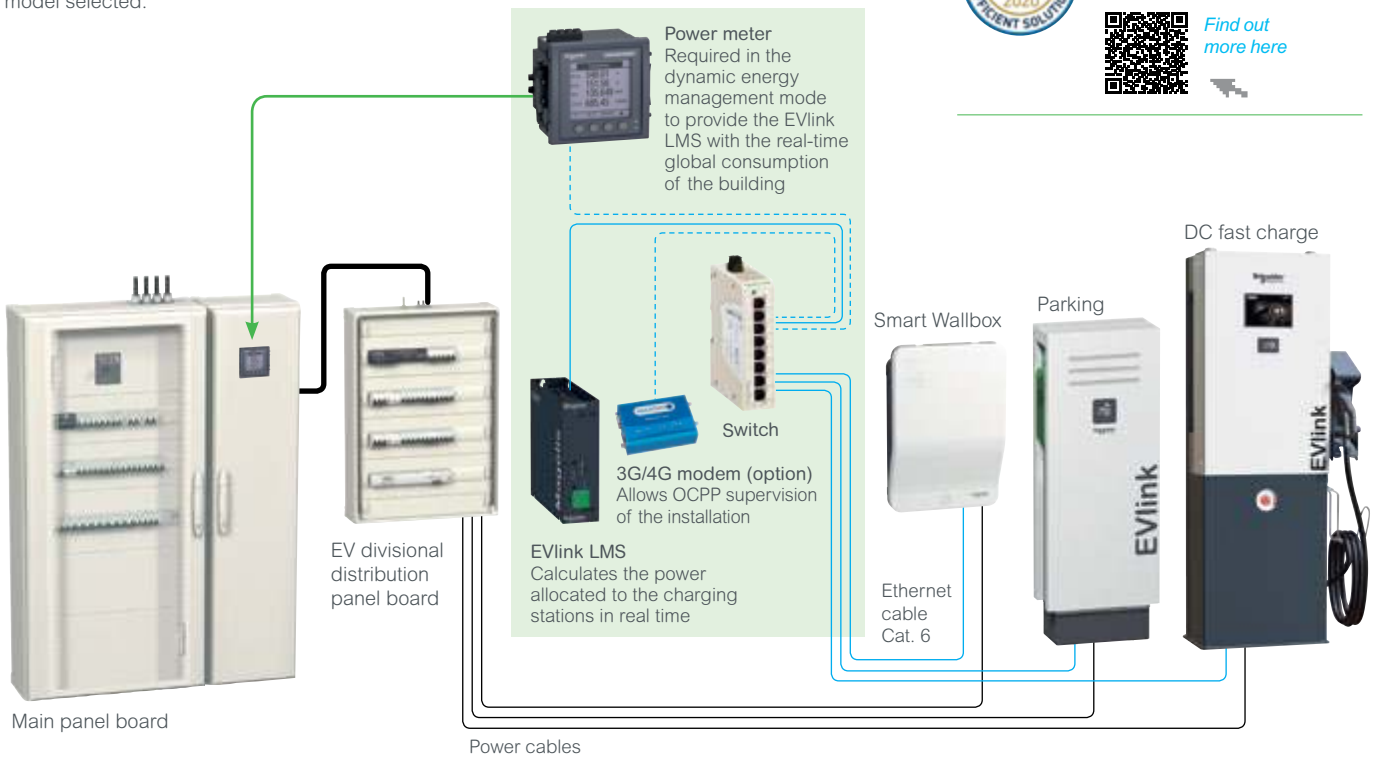
Setpoint "D" is adjusted in real time according to the consumption of the rest of loads in the building, to maximize the power allocated to charging electric vehicles.

Electrical installation with energy management

From 1 to 1000 charging stations depending on the EVlink LMS (Load Management System) model selected.

EVlink Load Management System has been awarded with the prestigious "Solar impulse Efficient Solution" label.

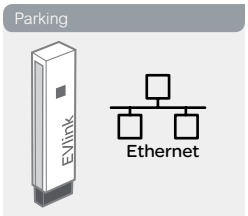
Find out more here

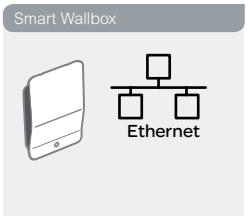


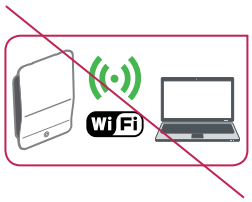
Communicating charging stations

Charging station connectivity

EVlink Parking and EVlink Smart Wallbox charging stations are fitted with Ethernet ports (cable).

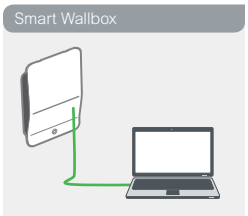


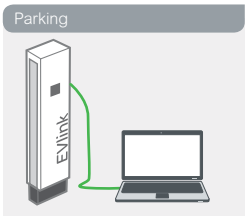


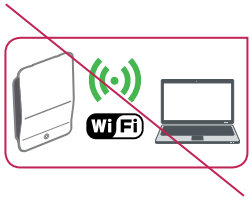


Communication for commissioning purpose

Charging stations settings are customized during the commissioning phase. Their Ethernet port must be connected to a standard PC for this purpose. No WiFi connection available at this stage.



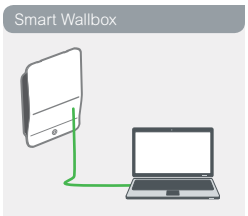


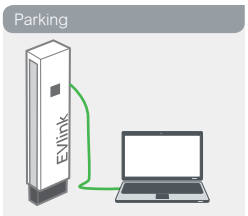


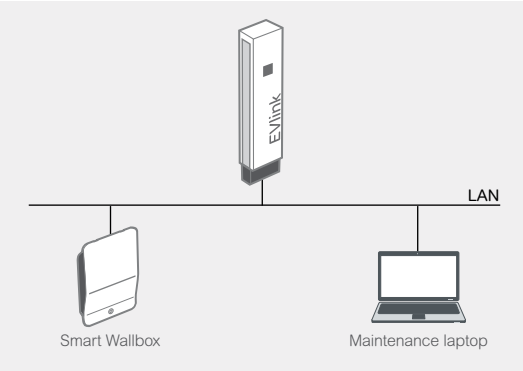
Communication for maintenance purpose

Later changes of charging stations settings are sometime requested. They can be achieved by either:

- direct connection to charging station Ethernet port,
- or connection via a LAN, avoiding to open/close the charging station.







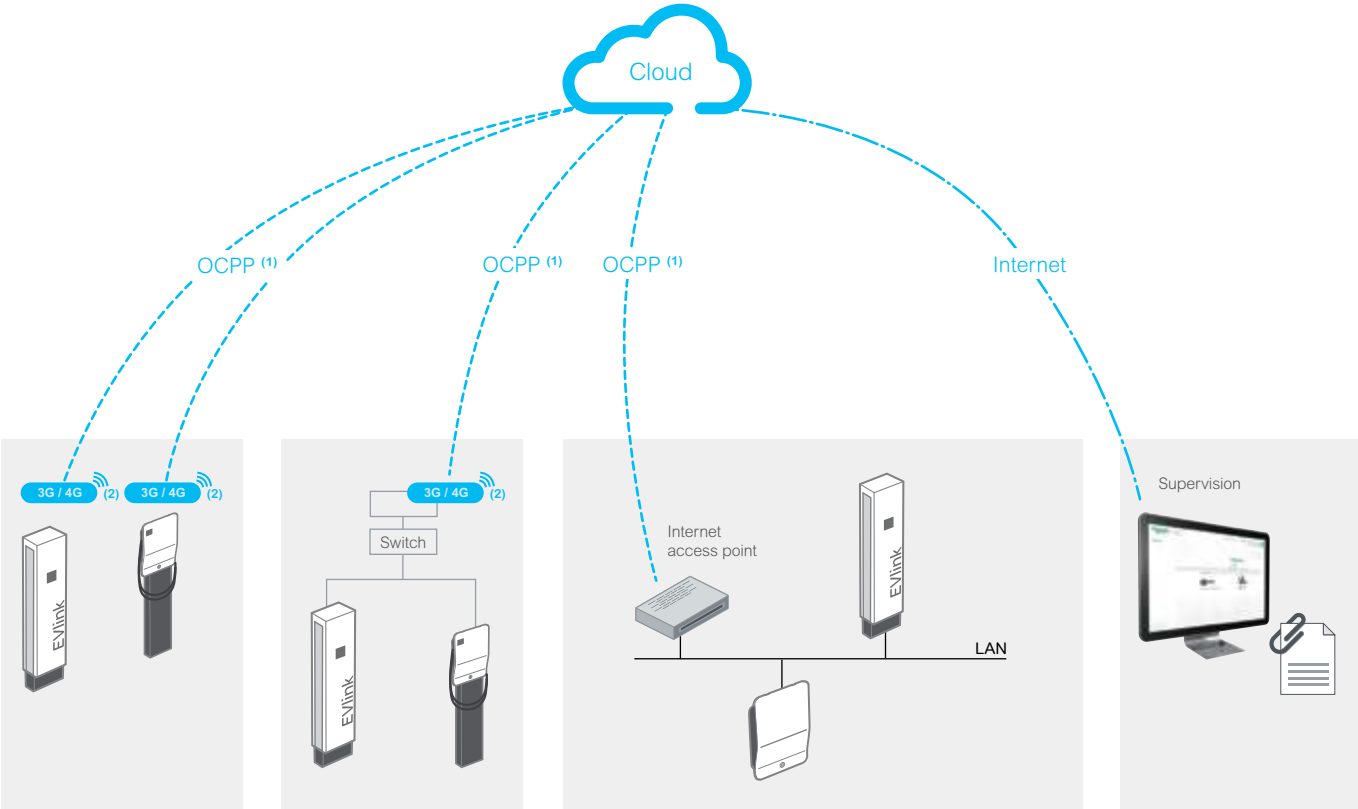
Cloud-connectable

Communication for Cloud supervision

EVlink Parking and EVlink Smart Wallbox access to the Cloud is available with 3G/4G or DSL technologies, and OCPP protocol.

Examples of possible Supervision services:

- User Access Management
- Getting Charge Details Records
- Reporting
- Asset management.



(1) OCPP: Open Charge Point Protocol standard.
(2) 4G modem: switches to 3G if no 4G covering.

Overview of EVlink offer

EVlink Wallbox

page 22

EVlink Smart Wallbox

Cloud-connectable

page 28

EVlink Parking

Cloud-connectable

page 34

Wallbox 'Standard'

- Outdoor or indoor use
- Wall-mounted or floor-standing*
- Power range: 3.7 to 22 kW
- T2 socket outlet (with or without shutters) or attached cable with T1 or T2 connector
- Key lock to prevent cable theft and to prevent starting and stopping a charging session
- Delayed start or temporary current limitation capability

Wallbox 'Plus'

Same features as Wallbox 'Standard'

Additional functions:

- Built-in protection against residual direct current
- TIC interface with French utility meters to avoid the risk of tripping of connection to the grid.

(*) Pole as an accessory.

- Outdoor or Indoor installation
- Wall-mounted or floor standing*
- Power Range: 7.4 kW or 22 kW with permanent derating option
- Socket outlet (T2/T2S) + domestic socket option (TE) or attached cable (T2/T1)
- Key lock to prevent cable theft and to prevent starting and stopping a charging session
- RFID badge authentication
- Energy metering capacity
- Optional communication module (3G/4G) or Ethernet to connect to a Supervision.

(*) Pole as an accessory.

- Outdoor or Indoor installation
- Wall-mounted or floor standing
- Power Range: 7.4 kW to 22 kW with permanent derating option
- 1 or 2 socket outlet (T2/T2S) + domestic socket option (TE)
- Free access or RFID badge authentication
- Energy metering capacity with automatic load balancing through commissioning
- Optional communication module (3G/4G) or Ethernet to connect to a Supervision.

How to use an EVlink Wallbox

Scan or click on QR code

How to use an EVlink Smart Wallbox

Scan or click on QR code

How to use an EVlink Parking charging station

Scan or click on QR code

EVlink Load Management System for load management and supervision

Energy management functions

- Avoid penalties for exceeding subscribed power
- Avoid power outages due to EV charging
- Reduce energy costs
- Monitor and control your installation locally
- Increase EV charger user satisfaction by providing fair EV charging services.

EVlink Load Management System: see page 50

Site management, supervision

- EV charging usage analysis
- Access and user authorization management
- Charging transactions data registering
- Maintenance & logs data registering.

EVlink DC fast charge*

Cloud-connectable

page 42

- Outdoor or Indoor installation
- Floor Standing
- Wall-mounted or floor standing with pedestal*
- Max DC output power: 24 kW
- **4 wallmounted charging stations**
  - 2 x mono-standard charging stations:
    - either with 'CHAdeMO' socket,
    - or with 'CCS Combo 2' socket
  - 1 x bi-standard charging station with 'CHAdeMO' socket + 'CCS Combo 2' socket
  - 1 x tri-standard charging station with 'CHAdeMO' socket + 'CCS Combo 2' socket +'AC 22kW T2' socket.
- Free access or RFID badge authentication.

(*) Pedestal to be ordered separately.

EVlink accessories & spare parts

- Floor standing and wall mounted bases
- Socket outlets, charging cables, cable holder
- Caps, covers
- Pack of 10 RFID badges
- AC Charging Station testing tool
- Key lock
- 3G/4G modem.

EVlink Services

EVlink Services: Solutions for your projets

As an energy management specialist, Schneider Electric offers the following services:

- Installation audit and commissioning by trained engineers or certified installers
- Warranty extension (on standard 24 months warranty)
- Training of your staff
- Spare parts offer for all EVlink charging stations.

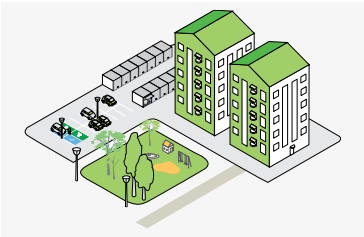
EVlink Wallbox

In short

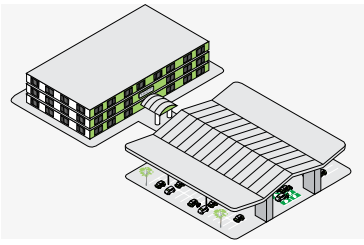
Product QR code 'FLASH ME'

At home

At home — condominium



In private parking area



EVlink Wallbox, a range made of Wallbox 'Standard' and Wallbox 'Plus'

Extensive choice

Wallbox 'Standard' and Wallbox 'Plus' are each available in 14 versions:

- Rated charging power: 3.7, 7.4, 11 or 22 kW
- T2 socket outlet (with or without shutter) or attached cable (with T1 or T2 connector)

Charging station QR Code

- To get the product datasheet or to join Customer Care Center with "mySchneider" app, flash the QR Code with your usual QR Code reader
- To access cloud-based EcoStruxure™ Facility Expert app maintenance organizer: charging station registration, maintenance reports, (see page 25)

Robustness

- Highly robust to mechanical impact: IK10
- Suitable for outdoor use: IP54
- Heavy duty T2 socket outlet with silver plated contacts avoiding overheating

Easy to use

- "Plug and charge"
- One-touch stop/restart
- Attached cable rolled up around the Wallbox
- 1 or 2 charging stations mounted on the same pole

Energy management options

Only one option to be selected at once, or none

- Delayed start to charge only in off-peak hours
- Temporary current limitation from 16 A (3.7 and 11 kW) to 10 A, or from 32 A (7.4 and 22 kW) to 16 A, to cut the risk of electric overload
- Permanently adjust the maximum charging current available for the vehicle, to avoid tripping (utility meter or incoming circuit-breaker) when the overall consumption of the home is close to the subscribed power

The first two options are activated by closing an external contact (off-peak switch, load-shedding device, etc) hardwired to the single digital input. The third option is only available in Wallbox Plus when using the TIC ("Télé-Information Client") interface of French utility meters (single-phase residential only with Linky and former electronics meters)

Protection against earth leakage current (Wallbox Plus only)

Wallbox Plus is fitted with a built-in protection against residual direct current (RDC-DD, as "Residual Direct Current Detecting Device"). This makes it possible to use an upstream type A protection against residual current (RCD) both in single-phase and three-phase, in accordance with the CENELEC HD 60364-7-722:2016 electrical installation standard.

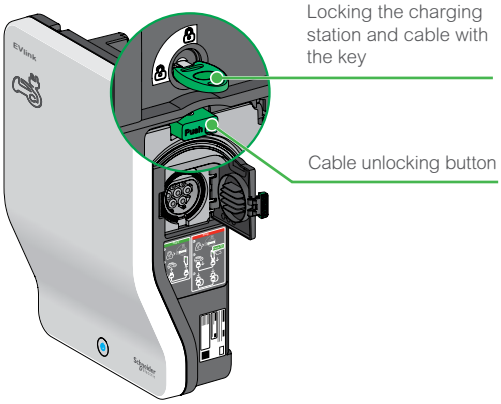
Please note that despite the mandatory application of this new standard since February 2019, some countries may have not yet updated their national standard accordingly. National standards and codes prevail and the use of a RCD type A combined with a RDC-DD may be prohibited in three-phase.

Application

EVlink Wallbox 'Standard' and EVlink Wallbox 'Plus'

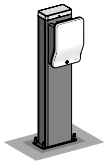
Wallbox Standard and Wallbox Plus are recommended for homes, as well as tougher environments (condominium, corporate car park, hotel, etc.), because of their weatherproof and robust design.

Discovery



Charging station with attached cable

Charging station with socket outlet



1 or 2 Wallbox on optional pedestal mounting pole

Charging station unlocked

Locking the station with the key

- Impossible to insert the plug
- Impossible to extract the cable
- Impossible to stop/start charging

Charging station locked

Easy to install

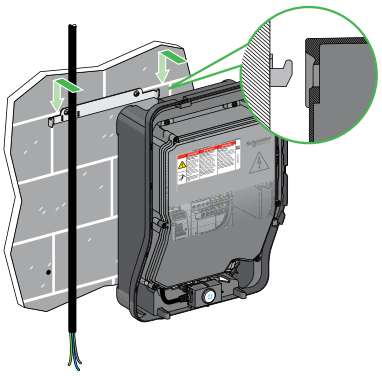
Installation by a single technician in less than 30 minutes; no special tools required

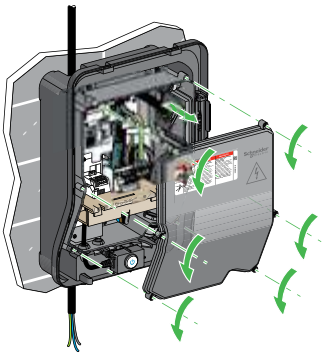
Top, bottom or back side wiring

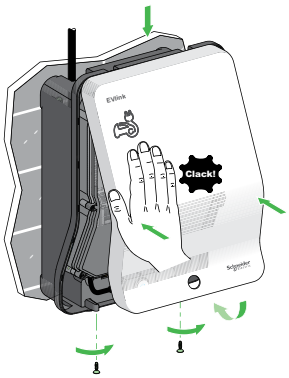
Immediate commissioning

What's inside an EVlink Wallbox

Scan or click on QR code







EVlink Wallbox

Characteristics

Z.E. READY*

Green Premium™ Product

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

Certification

EVlink Wallbox has obtained the CB test certificate issued by the LCIE test laboratory, establishing compliance with the IEC 61851-1 and IEC 61851-22 standards.

(*) Granted to Wallbox Standard, planned for Wallbox Plus.

EVlink Wallbox 'Standard' and EVlink Wallbox 'Plus'

Power supply network

- 220 - 240 V single-phase – 50/60 Hz for 3.7 and 7.4 kW charging stations
- 380 - 415 V three-phase – 50/60 Hz for 11 and 22 kW charging stations
- Suitable earthing systems:
  - TT, TN-S, TN-C-S
  - IT (may require the addition of an isolating transformer to make it possible to charge certain vehicles)

Mechanical and environmental characteristics

- Ingress protection code: IP54
- Impact protection code: IK10
- Operating temperature: -30°C to +50°C
- Storage temperature: -40°C to +80°C
- Attached cable length: 4 m
- Energy management exclusive options: delayed charging start, temporary current limitation, real time maximum charging current control (Wallbox Plus only, combined with TIC interface of French utility meters)

Access control modes

- Free access
- Control by key lock, including charging cable locking

Warranty

- 24 months for the entire EVlink range

Standards

- IEC/EN 61851-1 ed 2.0
- IEC/EN 61851-22 ed 1.0
- IEC/EN 62196-1 ed 2.0
- IEC/EN 62196-2 ed 1.0.

Charging station references

EVlink Wallbox

Description	Socket outlet or connector type	Power (kW) Phases	References	
			Wallbox Standard	Wallbox Plus
With socket outlet on right side [1] - Silver-plated contacts				
	T2	3.7 (1P - 16 A)	**EVH2S3P02K**	**EVH3S3P02K**
		7.4 (1P - 32 A)	**EVH2S7P02K**	**EVH3S7P02K**
		11 (3P - 16 A)	**EVH2S11P02K**	**EVH3S11P02K**
		22 (3P - 32 A)	**EVH2S22P02K**	**EVH3S22P02K**
	T2 with shutters	3.7 (1P - 16 A)	**EVH2S3P04K**	**EVH3S3P04K**
		7.4 (1P - 32 A)	**EVH2S7P04K**	**EVH3S7P04K**
		11 (3P - 16 A)	**EVH2S11P04K**	**EVH3S11P04K**
		22 (3P - 32 A)	**EVH2S22P04K**	**EVH3S22P04K**
With attached cable 4 m, on right side - Silver-plated contacts				
	T1	3.7 (1P - 16 A)	**EVH2S3P0AK**	**EVH3S3P0AK**
		7.4 (1P - 32 A)	**EVH2S7P0AK**	**EVH3S7P0AK**
	T2	3.7 (1P - 16 A)	**EVH2S3P0CK**	**EVH3S3P0CK**
		7.4 (1P - 32 A)	**EVH2S7P0CK**	**EVH3S7P0CK**
		11 (3P - 16 A)	**EVH2S11P0CK**	**EVH3S11P0CK**
		22 (3P - 32 A)	**EVH2S22P0CK**	**EVH3S22P0CK**

[1] Cable available as an accessory.

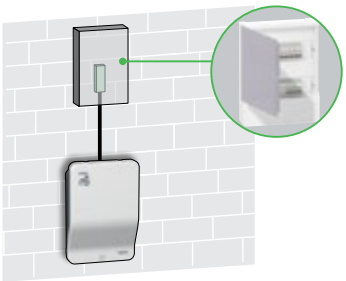
Protections and options with Wallbox Standard

Description					
Charging		Single-phase		Three-phase	
Rated Power - Current		3.7 kW - 16 A	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection					
Circuit breaker (overcurrent) [1]		20 A Curve C	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]		30 mA B Type for EV [2]: **A9Z51225**	30 mA B Type for EV [2]: **A9Z51240**	30 mA B Type for EV: **A9Z51425**	30 mA B Type for EV: **A9Z51440**
		30 mA B-SI Type [2]: **A9Z61225**	30 mA B-SI Type [2]: **A9Z61240**	30 mA B-SI Type: **A9Z61425**	30 mA B-SI Type: **A9Z61440**
Under voltage tripping auxiliary	with iC60	**A9A26969** (optional)	**A9A26969** [3]	**A9A26969** [3]	**A9A26969** [3]
	with DT40	**A9N26969** (optional)	**A9N26969** [3]	**A9N26969** [3]	**A9N26969** [3]
Delayed start					
Relay		With normally open contact			
Temporary current limitation					
Relay		With normally open contact			

Protections and options with Wallbox Plus

Description					
Charging		Single-phase		Three-phase	
Rated Power - Current		3.7 kW - 16 A	7.4 kW - 32 A	11 kW - 16 A	22 kW - 32 A
Protection					
Circuit breaker (overcurrent) [1]		20 A Curve C	40 A Curve C	20 A Curve C	40 A Curve C
RCD (residual current) [1]		30 mA A-SI Type [2]		30 mA A-SI Type [2]	
Under voltage tripping auxiliary	with iC60	**A9A26969** [4]	**A9A26969** [3][4]	**A9A26969** [3][4]	**A9A26969** [3][4]
	with DT40	**A9N26969** [4]	**A9N26969** [3][4]	**A9N26969** [3][4]	**A9N26969** [3][4]
Delayed start					
Relay		With normally open contact			
Temporary current limitation					
Relay		With normally open contact			

[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] Necessary to meet EV Ready requirements.
[4] Mandatory for safety in case of charging station damage further to a short-circuit created by the vehicle.



The charging station operates autonomously.
It has a dedicated protective device.

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

EVlink Wallbox

Accessory references

EVlink Cable

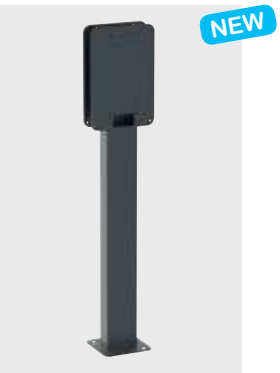
To connect the car to the charging station. Available with a T1 or T2 connector.

Please refer to page 46

AC charging station testing tool

Enables an operating check in the field of the charging station and charging cable.
Reference: EVA1SADS

Pedestal mounting pole

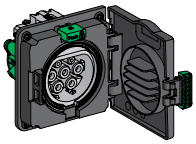


Floor standing:
- for 1 Wallbox, Reference EVP2PBSSG1
- for 2 Wallbox, Reference EVP2PBSSG2

Available 4th quarter of 2020

Spare part references

Front panel	Reference
	EVP1HCWN

Socket outlet	References
	
T2S single-phase	EVP1HSM41
T2 single-phase	EVP1HSM21
T2S three-phase	EVP1HSM43
T2 three-phase	EVP1HSM23

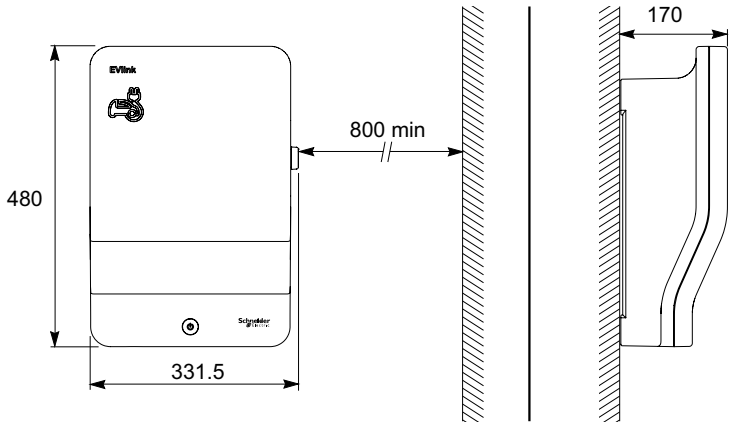
Key lock	References
Key lock Random [1]	EVP1HLSR
Key lock Single [1]	EVP1HLSS

[1] Example:
- If you order one EVP1HLSR: you will receive 1 lock + 2 keys with same code.
- If you order one EVP1HLSS: you will receive 10 locks + 20 keys with same code for all keys.

Attached cable	References
T1 charging connector	
16 A single-phase	EVP2CNS161A4
32 A single-phase	EVP2CNS321A4
T2 charging connector	
16 A single-phase	EVP2CNS161C4
32 A single-phase	EVP2CNS321C4
16 A three-phase	EVP2CNS163C4
32 A three-phase	EVP2CNS323C4

Practical information

Dimensions (mm)



5.6 kg (Wallbox Standard)
6.3 kg (Wallbox Plus)

7.5 kg (Wallbox Standard with attached cable)
7.9 kg (Wallbox Plus with attached cable)

Additional information for Wallbox Standard

Technical document	Language	References
With socket outlet		
Quick start guide	EN/ES/FR/DE [1]	**NHA31789**
	IT/NL/PL/PT	**NHA31790**
Instruction sheet	EN/ES/FR/DE [1]	**NHA31778**
	IT/NL/PL/PT	**NHA31779**
	NO/SV/FI	**QGH34400**
With attached cable		
Quick start guide	EN/ES/FR/DE [1]	**NHA31783**
	IT/NL/PL/PT	**NHA31784**
Instruction sheet	EN/ES/FR/DE [1]	**NHA31787**
	IT/NL/PL/PT	**NHA31788**
	NO/SV/FI	**QGH34396**

Additional information for Wallbox Plus

Technical document	Language	References
With socket outlet		
Instruction sheet	EN/FR/DE/NO [1]	**PHA92084**
	SV/ES/NL/IT	**PHA92086**
With attached cable		
Instruction sheet	EN/FR/DE/NO [1]	**PHA92085**
	SV/ES/NL/IT	**PHA92087**

[1] Delivered with the Wallbox.

To download the above documents, do a search by reference on www.schneider-electric.com

EcoStruxure™ Facility Expert

Register your charging station and improve your maintenance efficiency now with EcoStruxure™ Facility Expert.

- EcoStruxure™ Facility Expert is a simple, cloud-based tool that helps you organize maintenance records, follow-up on preventive maintenance, access log histories, create reports, and integrate remote alarming from your equipment.
- Let EcoStruxure™ Facility Expert help you optimize your maintenance activities. Download it for free on your PC or for your smart device at the Apple or Google Play store.
- You are ready to flash the product QR code with the EcoStruxure™ Facility Expert reader.

Available on the App Store

GET IT ON Google play

EVlink Smart Wallbox

In short

Product QR code 'FLASH ME'

Cloud-connectable

GPRS WiFi Ethernet

Schneider Electric supports OCPP and is an active member of OCA (Open Charge Alliance).

Extensive choice

Charging station offer:

- Maximum charging power: 7.4 kW or 22 kW with a single-phase or three-phase power supply
- Maximum charging current can be adjusted from 8 A to 32 A
- T2 socket outlet with or without shutter
- T2 socket outlet with shutters + type E domestic socket outlet
- Attached cable with T1 or T2 connector
- Key locking or RFID user authentication

Charging station QR Code

- To get the product datasheet or to join Customer Care Center with "mySchneider" app, flash the QR Code with your usual QR Code reader.
- To access cloud-based EcoStruxure™ Facility Expert app maintenance organizer: charging station registration, maintenance reports, (see page 31)

Robustness

- Heavy duty socket outlet with silver plated contacts avoiding overheating
- High protection against mechanical impacts: IK10
- Suitable for outdoor use: IP54

Easy to install and commission

- Wall mounting or floor standing
- 1 or 2 charging stations on the same pole
- Easy wiring
- Integrated measuring of the apparent power
- Interface with an external MID energy meter
- Parameters setting through a web server embedded in the charging station

Energy management

- Delayed charging locally controlled by a wired contact to postpone charging to off-peak hours
- Temporary current limitation to a set value, controlled by a wired contact, to reduce the overall facility consumption and reduce the risk of power outage.
- Delayed charging and current limitation can also be controlled by the EV Load Management System, the supervision (over OCPP) or by the building management system (over Modbus)

Versatile connection to a supervision

- Wired Ethernet: 3 ports
- 3G/4G modem as an accessory
- OCPP 1.5 or OCPP 1.6 interface

Services offer

- Worldwide network of certified installers providing on-site installation, on-site commissioning, maintenance plan and on-demand repair and asset management contracts
- Worldwide customer care center

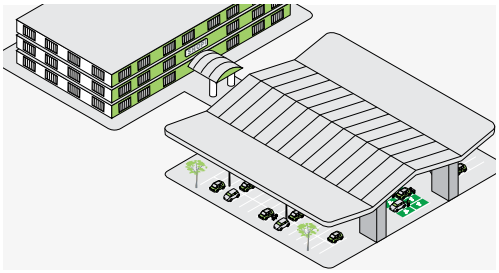
Optimized architecture

- Standalone or clustered architecture
- Connected or not to a supervision (through OCPP 1.5 or OCPP 1.6 communication protocole).

Fleet car at home

Condominium

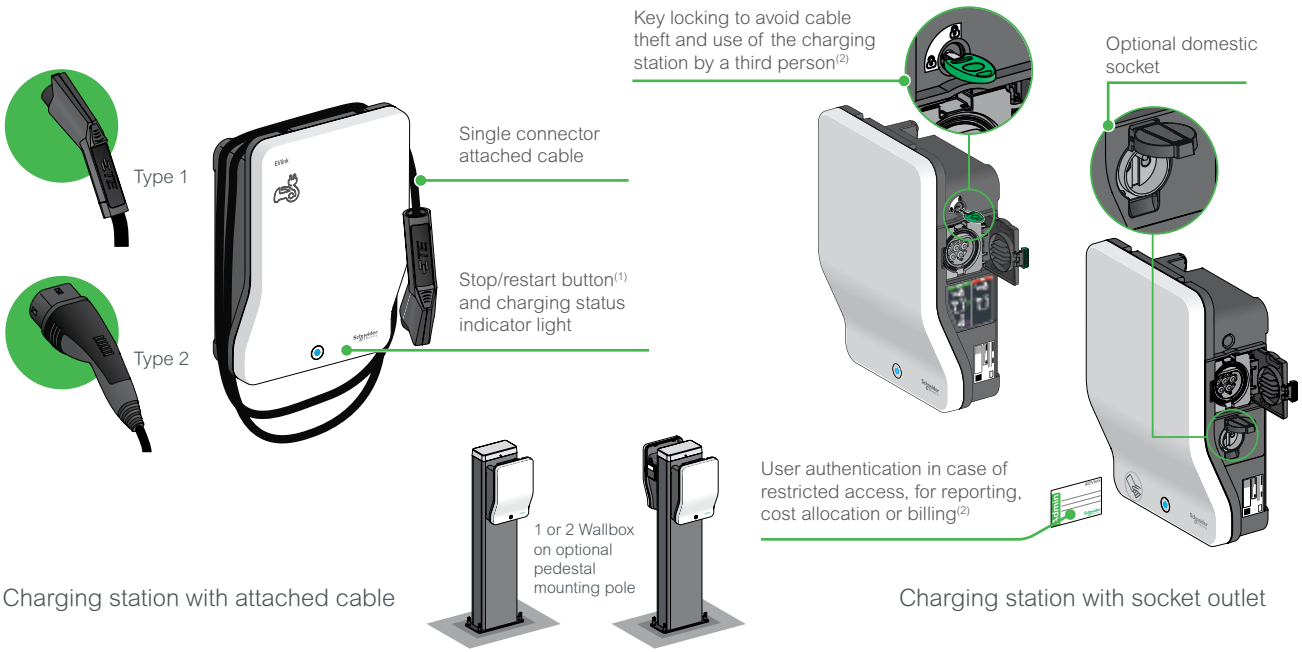
Corporate and semi-public car parks



Application

Smart Wallbox is recommended for all private and semi-public areas whenever there are needs of user authentication, charging sessions monitoring or charging assets management.

Discovery



(1): also available with EVlink Smart Wallbox with attached cable.
(2): function can be deactivated with commissioning tool.

Easy to install and commission

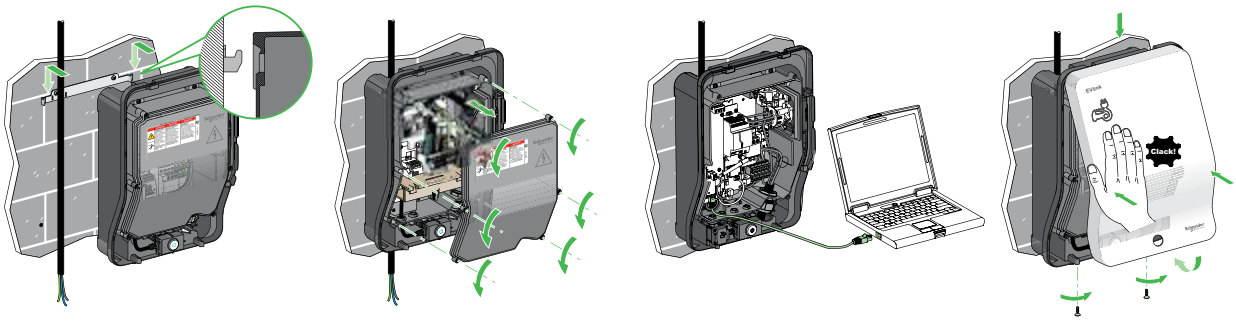
Installation by a single technician in less than 30 minutes; no special tools required

Top, bottom or back side wiring

Easy commissioning with a laptop connected to the embedded webserver

What's inside an EVlink Smart Wallbox

Scan or click on QR code



For example, you can:

- configure RFID badges. All RFID badges are accepted by default (factory setting)
- amend the maximum current values per socket
- activate the functions: load shedding
- produce maintenance reports
- set up access to supervision
- ...

EVlink Smart Wallbox

Characteristics

Cloud-connectable

GPRS WiFi Ethernet

Z.E. READY

Green Premium™ Product

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

Certification

EVlink Smart Wallbox has obtained the CB test certificate issued by the LCIE test laboratory, establishing compliance with the IEC 61851-1 and IEC 61851-22 standards.

Power supply

- Smart Wallbox can be supplied either in single-phase or in three-phase
- 220-240 V single-phase - 50/60 Hz
- 380-415 V three-phase - 50/60 Hz

Rated charging current

- T2/T2S socket-outlet: 8 A to 32 A (factory setting 32 A)
- TE socket-outlet: 10 A

Power consumption

- Power consumption of each conditional input (limitation and deferred start): 5 mA 24 V DC

Diagram of the earthing system

- TT, TN-S, TN-C-S
- IT (may require the addition of an isolating transformer for charging of certain vehicles)

Mechanical and environmental characteristics

- Ingress protection code: IP54
- Impact protection code: IK10
- Operating temperature: -30°C to +50°C
- Storage temperature: -40°C to +80°C
- Attached cable length: 4.5 m

Charging access

- Key locking
- User authentication through a RFID badge. Remote authentication by supervision or local setting of authorized badges
  - 13.56 MHz RFID reader for badges with chips Mifare Ultralight, Mifare Classic 1K / 4K, I Code SLI, Tag-it HFI, EM4135 ... (under ISO/IEC 14443 A&B, ISO/IEC 15693 protocols)
    Notes: RFID badges available on the market and standard are modified very often, so we advice to carry out prior test on our charging station to check compatibility
  - 10 RFID badges provided with every RFID-type charging station

Warranty

- 24 months for the entire EVlink range

Standards

- IEC/EN 61851-1 ed 2.0
- IEC/EN 61851-22 ed 1.0
- IEC/EN 62196-1 ed 2.0
- IEC/EN 62196-2 ed 1.0

Connectivity

- Wired Ethernet: 3 ports
  - Port 1: LAN
  - Port 2: 3G/4G
  - Port 3: connection to PC for commissioning
- 3G/4G modem as an accessory
- OCPP 1.5 or OCPP 1.6 interface

Energy metering

- Integrated measuring of the apparent power
- Interface with an external MID energy meter

Commissioning

- Parameters setting through a web server embedded in the charging station.

Charging station references

EVlink Smart Wallbox

Description	Socket outlet or connector type	Charging access	Power (kW)[1] Phases	References
With socket outlet on right side - Silver plated contacts				
	T2	Key	7.4 (1P) / 22 (3P)	**EVB1A22P2KI**
		RFID [2]	7.4 (1P) / 22 (3P)	**EVB1A22P2RI**
	T2 with shutter	Key	7.4 (1P) / 22 (3P)	**EVB1A22P4KI**
		RFID [2]	7.4 (1P) / 22 (3P)	**EVB1A22P4RI**
	T2 with shutter and TE (domestic)	Key	7.4 (1P) / 22 (3P)	**EVB1A22P4EKI**
		RFID [2]	7.4 (1P) / 22 (3P)	**EVB1A22P4ERI**
With attached cable 4.5 m, on right side - Silver plated contacts				
	T1	Key	7.4 (1P)	**EVB1A7PAKI**
		RFID [2]	7.4 (1P)	**EVB1A7PARI**
	T2	Key	7.4 (1P)	**EVB1A7PCKI**
		RFID [2]	7.4 (1P)	**EVB1A7PCRI**
	T2	Key	22 (3P)	**EVB1A22PCKI**
		RFID [2]	22 (3P)	**EVB1A22PCRI**

[1] Factory setting: 32 A - and all RFID badges validated.
Can be replaced by customer setting (16 A, list of RFID badges…) using a PC via embedded webserver (see commissioning guide DOCA0060).

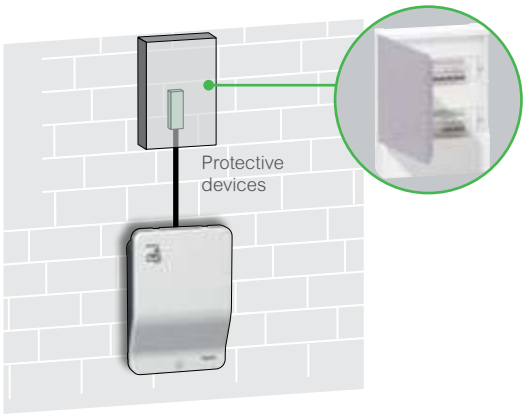
[2] Includes 10 RFID badges.

Protective devices and optional equipment

New installation: supply line and protection devices must be defined for the highest power setting.

Description			
Charging		Single-phase	Three-phase
Rated Power - Current		7.4 kW - 32 A [4]	22 kW - 32 A [4]
Protection			
Circuit breaker (overcurrent)[1]		40 A Curve C	40 A Curve C
RCD (residual current)[1]		30 mA B Type for EV [2]: **A9Z51240**	30 mA B Type for EV: **A9Z51440**
		30 mA B-SI Type [2]: **A9Z61240**	30 mA B-SI type for EV: **A9Z61440**
Under voltage tripping auxilary	with iC60	**A9A26969** [3]	**A9A26969** [3]
	with DT40	**A9N26969** [3]	**A9N26969** [3]
Deferred start			
Relay		With normally open contact [5]	
Load-shedding			
Relay		With normally open contact [5]	

[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] Necessary to meet EV Ready requirements.
[4] Without or with domestic socket.
[5] Smart Wallbox setting can be changed to "normally closed" if necessary, with commissioning tool.



The charging station operates autonomously.
It has a dedicated protective device.

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

EVlink Smart Wallbox

Accessory references

EVlink Cable

Available with T1 or T2 connector.

Please refer to page 46

AC charging station testing tool

Enables operating check of the charging station and charging cable.
Reference: EVA1SADS

Pedestal mounting pole

Floor standing:
- for 1 Wallbox, Reference EVP2PBSSG1
- for 2 Wallbox, Reference EVP2PBSSG2

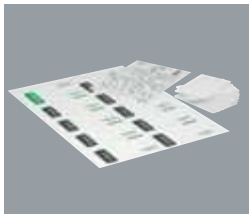
Available 4th quarter of 2020

Modem

Modems to be mounted inside the Smart Wallbox.

3G/4G Modem
Reference: EVP3MM

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

Antenna for Smart Wallbox GPRS/3G/4G modem

Antenna must be ordered separately:

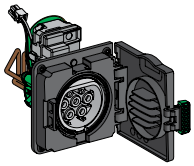
Ethernet cable 0.3 m included.
To be mounted inside the Smart Wallbox
Reference: EVP2MX

Spare part references

Front panel	Reference
	EVP1HCWN

Key lock	References
Key lock Random [1]	EVP1HLSR
Key lock Single [1]	EVP1HLSS

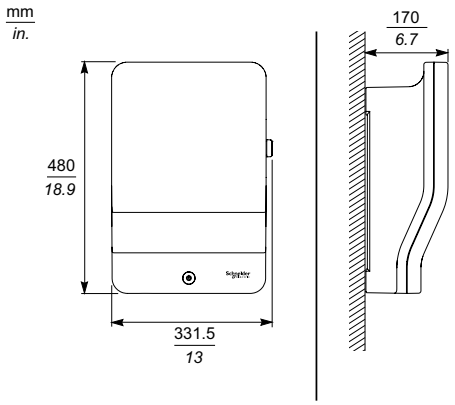
[1] Example:
- If you order one EVP1HLSR: you will receive 1 lock + 2 keys with same code.
- If you order one EVP1HLSS: you will receive 10 locks + 20 keys with same code for all keys.

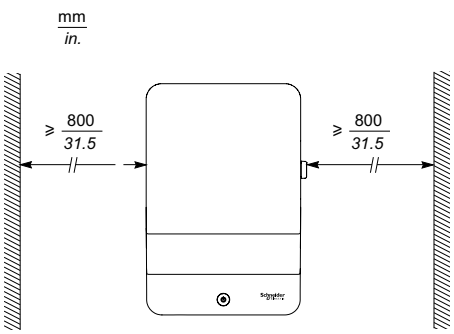
Socket outlet	References
 T2S	EVP1BSE43
T2	EVP1BSE23
TE	EVP1BSSE

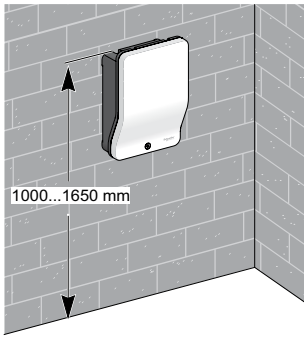
Attached cable	References
T1 charging connector	
32 A single-phase	EVP1CBS321A45
T2 charging connector	
32 A single-phase	EVP1CBS321C45
32 A three-phase	EVP1CBS323C45

Practical information

Dimensions (mm)







With socket outlets

- **6.2 kg (13.66 lb) - T2/T2S**
- **6.6 kg (14.55 lb) - T2/T2S + TE**

With attached cable

- **7.7 kg (15.43 lb) - 7.4 kW**
- **8.3 kg (17.63 lb) - 22.1 kW**

Additional information

Charging station technical document	Language	References
Installation Guide [1] (model with socket outlet)	EN / FR / ES / IT	**NHA95005**
	DE / NL / NO / SV	**NHA95006**
Installation Guide [1] (model with attached cable)	EN / FR / ES / IT	**NHA95018**
	DE / NL / NO / SV	**NHA95021**
User guide [1]	EN / FR/ / ES / IT	**NHA95096**
	DE / NL / NO / SV	**NHA95097**
Commissioning Guide [2] (standalone charging station)	FR	**DOCA0060FR**
	EN	**DOCA0060EN**

[1] Delivered with the product.
[2] To be downloaded.

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

EcoStruxure™ Facility Expert

Register your charging station and improve your maintenance efficiency now with EcoStruxure™ Facility Expert.

- EcoStruxure™ Facility Expert is a simple, cloud-based tool that helps you organize maintenance records, follow-up on preventive maintenance, access log histories, create reports, and integrate remote alarming from your equipment.
- Let EcoStruxure™ Facility Expert help you optimize your maintenance activities. Download it for free on your PC or for your smart device at the Apple or Google Play store.
- You are ready to flash the product QR code with the EcoStruxure™ Facility Expert reader.

Available on the App Store

GET IT ON Google play

EVlink Parking

In short

Extensive choice

Charging station offer
- Compliant with power supply network: 220-240 V / 380-415 V
- 7.4 kW or 22 kW (32 A for 230 / 400 V) and settable from 6 A to 32 A
- High robustness of Socket outlet (Type 2 or Type 2 with shutters) thanks to silver plated contact avoiding overheat
- Multiple configurations: user identification, one or two sockets outlets, floor-standing or wall-mounted

Charging station QR Code
- To get the product datasheet or to join Customer Care Center with "mySchneider" app, flash the QR Code with your usual QR Code reader.
- To access cloud-based EcoStruxure™ Facility Expert app maintenance organizer: charging station registration, maintenance reports, (see page 41)

Options
- Ethernet communication with supervision system via 3G/4G modem

Accessories offer
- Cables, RFID badges, cable holder, modem, etc.

Spare parts offer
- Floor base, wall base, socket outlet, caps, flap, etc.

Services offer
- Worldwide network of certified installers providing on-site installation, on-site commissioning, maintenance plan and on-demand repair and asset management contracts
- Worldwide customer care center

Optimized architecture
- Standalone or clustered architecture
- Connected or not to a supervision (through OCPP 1.5 or OCPP 1.6 communication protocole)
- Electrical protection devices in external cabinet or in the parking station floor base.

Product QR code
'FLASH ME'

Cloud-connectable

GPRS

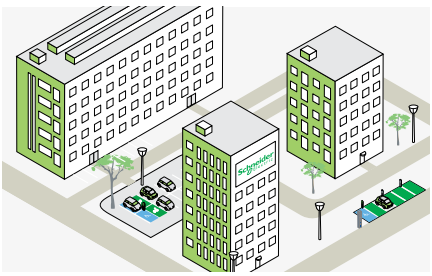
Ethernet

Easy commissioning with a laptop connected to the embedded webserver

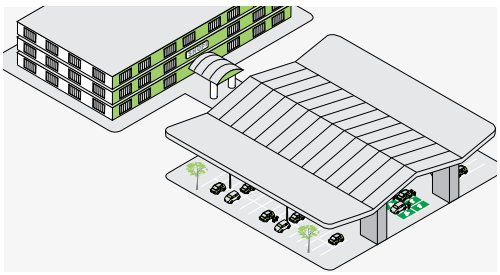
For example, you can:
- configure RFID badges. All RFID badges are accepted by default (factory setting)
- amend the maximum current values per socket
- authorize the permanently attached cable (cable which remains attached permanently to the station)
- activate the functions: load shedding and conditional outgoing line per socket
- balance the charging powers (for 2-socket stations)
- produce maintenance reports
- set up access to supervision
- …

At home - condominium

At work



Corporate and semi-public car parks



In short

Provide optimum flexibility

The maximum power can be set:
- Through the embedded Web server. This setting can be changed at any time with a few clicks.
- Remotely, via
  - a back-end Charge Point Operator, through OCPP
  - a Building Management System, an load management system, or any other local system through Modbus

The setting can be either a permanent or dynamic value.

Schneider Electric supports OCPP and is an active member of OCA (Open Charge Alliance).

Enhanced features

Benefit from advanced features and configure your charging station thanks to the EVlink embedded Web server.

- Adapt the charging station power demand to your electrical distribution:
  - configure load management per socket outlet or for the charging station
  - set automated load balancing between socket outlets for dual charging stations*
  - set other related energy management features: load shedding, circuit breaker status, and postponed charge
- Select the relevant power-metering solution:
  - with current transformers already included in the cabinet
  - with additional power meters for higher metering precision, MID-compliant or not
- Adapt the charging station to your application:
  - activate or deactivate RFID badge reader
  - select to allow the cable to remain permanently plugged in the charging station
  - configure IP address and network parameters
  - visualize Charge Detail Record (3000 history)

Diagnosis and maintenance

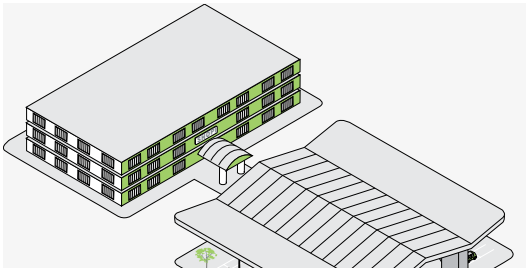
- Perform diagnosis thanks to charging station front face LEDs or through the embedded Web server
- Restore factory default settings without a computer
- Upgrade the charging station with the latest firmware and benefit from additional features

Supervision capability

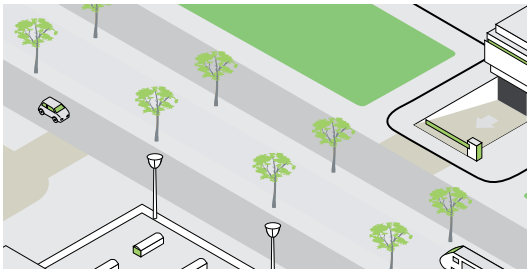
- Operate and maintain your charging infrastructure:
  - connect to supervision through OCPP 1.5 or OCPP 1.6 protocol
  - connect to local management system, such as Building Management System, through modbus TCP/IP.

(*) This feature allows vehicles to recharge as quickly as possible, with the station also limiting the power delivered to its maximum set value.

In private parking area



On street



EVlink Parking

Characteristics

The appearance may be customized on request.

Please do not hesitate to contact your Schneider Electric representative to assist you in this project.

Green Premium™ Product

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

Z.E. READY

Power supply network

- Earthing system: TT, TN-S, TN-C-S
  - IT (may require the addition of an isolating transformer for charging of certain vehicles)
- Frequency: 50 Hz or 60 Hz
- Socket outlet supply circuit (1 circuit per socket outlet):
  - 220/240 V 1P+N *or*
  - 380/415 V 3P+N
- Control circuit voltage (for charging station):
  - 220/240 V 1P+N

Charging modes

- Mode 2 with:
  - 10 A / Type E (FR standard) domestic socket
  - 10 A / Type F (DE standard) domestic socket
- Mode 3 with T2 socket outlet (with or without shutter)
- Communication between charging station and vehicle via charging cable as per IEC 61851

Charging access

User authentication through a RFID badge. Remote authentication by supervision or local setting of authorized badges

- 13.56 MHz RFID reader for badges with chips Mifare Ultralight, Mifare Classic 1K / 4K, I Code SLI, Tag-it HFI, EM4135 ... (under ISO/IEC 14443 A&B, ISO/IEC 15693 protocols)

  Notes: RFID badges available on the market and standard are modified very often, so we advice to carry out prior test on our charging station to check compatibility
- 10 RFID badges provided with every RFID-type charging station

Mechanical and environmental

- Painted steel body, anti-corrosion treatment
- Protection: IP54 (IEC 60529), IK10 (IEC 62262)
- Operating temperature: -25°C to +40°C for Mode 2 / Mode 3 charging station
- Operating temperature: -25°C to +50°C for Mode 3 only charging station

IT Network connection

- TCP/IP
- FTP, SMTP or HTTP data retrieval
- Operations:
  - remote user authentication
  - retreive data for Charging Data Record
  - charging station status monitoring
  - get remote commands

Certification

- CE and CB scheme (IEC 61851-1 and IEC 61851-22 standards)
- EV and ZE ready

Warranty

- 24 months for the entire EVlink range.

Charging station references

Floor standing

Without RFID reader

With RFID reader

Silver plated Socket-outlet Schneider Electric

Mode 3

Charging station type	No. of chargepoints	Socket outlet type Silver-plated contacts	Power per socket outlet / Phases	
			7.4 kW (1P - 32 A)	22 kW (3P - 32 A)
Plug and charge - without RFID reader				
	1 [1]	T2	EVF2S7P02	EVF2S22P02
		T2 with shutters	EVF2S7P04	EVF2S22P04
	2	T2	EVF2S7P22	EVF2S22P22
		T2 with shutters	EVF2S7P44	EVF2S22P44
With RFID reader [2]				
	1 [1]	T2	EVF2S7P02R	EVF2S22P02R
		T2 with shutters	EVF2S7P04R	EVF2S22P04R
	2	T2	EVF2S7P22R	EVF2S22P22R
		T2 with shutters	EVF2S7P44R	EVF2S22P44R

[1] On the right side of the charging station.
[2] Includes 10 RFID badges.

Mode 3/Mode 2

Charging station type	No. of chargepoints	Socket outlet type Silver-plated contacts	Power per socket outlet / Phases	
			7.4 kW (1P-32 A) 2.3 kW (1P-10 A)	22 kW (3P-32 A) 2.3 kW (1P-10 A)
Plug and charge - without RFID reader				
	1	T2 - TF	EVF2S7P2F	EVF2S22P2F
		T2 with shutters - TE	EVF2S7P4E	EVF2S22P4E
With RFID reader [1]				
	1	T2 - TF	EVF2S7P2FR	EVF2S22P2FR
		T2 with shutters - TE	EVF2S7P4ER	EVF2S22P4ER

[1] Includes 10 RFID badges.

Wall mounted

Without RFID reader

With RFID reader

Mode 3

Charging station type	No. of chargepoints	Socket outlet type Silver-plated contacts	Power per socket outlet / Phases	
			7.4 kW (1P - 32 A)	22 kW (3P - 32 A)
Plug and charge - without RFID reader				
	1 [1]	T2	EVW2S7P02	EVW2S22P02
		T2 with shutters	EVW2S7P04	EVW2S22P04
	2	T2	EVW2S7P22	EVW2S22P22
		T2 with shutters	EVW2S7P44	EVW2S22P44
With RFID reader [2]				
	1 [1]	T2	EVW2S7P02R	EVW2S22P02R
		T2 with shutters	EVW2S7 P04R	EVW2S22P04R
	2	T2	EVW2S7P22R	EVW2S22P22R
		T2 with shutters	EVW2S7P44R	EVW2S22P44R

[1] On the right side of the charging station.
[2] Includes 10 RFID badges.

EVlink Parking

Accessory references

AC charging station testing tool

Enables an operating check in the field of the charging station and charging cable.
Reference: EVA1SADS

Modem

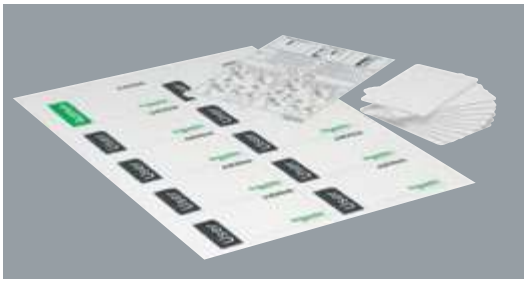
Modems to be mounted inside- external cabinet- Floor standing base, with EVP1FKC (Din rail mounting kit)

3G/4G Modem
Reference: EVP3MM

Antenna for Parking 3G/4G modem

Antenna must be ordered separately:
Ethernet cable 1 m included.
Antenna to be mounted on the Floor base EVP2FBS (hole diam 22 mm)
Reference: EVP2MP

Pack of 10 RFID badges

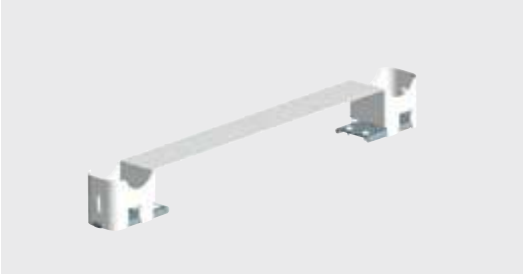


For charging stations equipped with an RFID reader.
The badges are supplied blank, ready to be programmed to identify an administrator or user.
Sheet of adhesive labels for badges: 1 administrator + 9 users.
Reference: EVP1BNS

Protective cover

For wall-mounted charging stations.
Blocks user access to cable sockets used for wiring.
Degree of protection: IK10
Reference: EVP1WPSC

Cable holder



For floor-standing and wall-mounted EVlink Parking charging stations, (also compatible with EVF1•••••, EVW1••••• and EVlink Parking charging stations.)
Allows the cable to be wound up for easy storage and locked on the holder.
Reference: EVP1PH

DIN rail mounting kit

For using the floor standing charging station as an electrical enclosure.
Compatible only with floor standing charging station (ref. EVF2) and floor standing base (ref. EVP2FBS).
Reference: EVP1FKC

Please refer to page 41

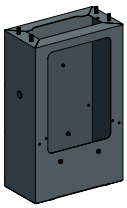
EVlink Cable

Several vehicle connector/ plug combinations are available for charging stations.

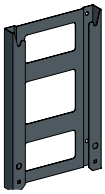
Please refer to page 46

Spare part references

Base

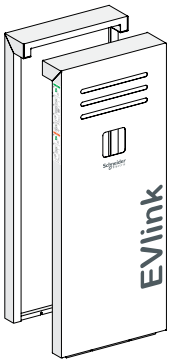


Floor-standing base.
Reference: EVP2FBS
See page 41

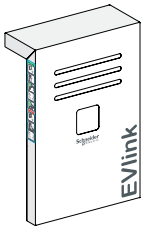


Wall-mounted base.
Reference: EVP1WBS

Cap



Floor standing.
Reference: EVP2FCG



Wall mounted.
Reference: EVP2WCG

Socket outlet

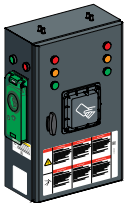
Green socket outlet T2.
Reference: EVP1PSS2

Green socket outlet T2 with shutters.
Reference: EVP1PSS4

Green socket outlet TE.
Reference: EVP1PSSE

Green socket outlet TF.
Reference: EVP1PSSF

Enclosure



Characteristics	References
7.4 kW 1XT2	EVP2PE702
7.4 kW 1XT2 RFID	EVP2PE702R
7.4 kW 1XT2S	EVP2PE704
7.4 kW 1XT2S RFID	EVP2PE704R
7.4 kW 2XT2	EVP2PE722
7.4 kW 2XT2 RFID	EVP2PE722R
7.4 kW 2XT2S	EVP2PE744
7.4 kW 2XT2S RFID	EVP2PE744R
7.4 kW T2S-TE	EVP2PE74E
7.4 kW T2S-TE RFID	EVP2PE74ER
7.4 kW T2-TF	EVP2PE72F
7.4 kW T2-TF RFID	EVP2PE72FR
22 kW 1XT2	EVP2PE2202
22 kW 1XT2 RFID	EVP2PE2202R
22 kW 1XT2S	EVP2PE2204
22 kW 1XT2S RFID	EVP2PE2204R
22 kW 2XT2	EVP2PE2222
22 kW 2XT2 RFID	EVP2PE2222R
22 kW 2XT2S	EVP2PE2244
22 kW 2XT2S RFID	EVP2PE2244R
22 kW T2-TF	EVP2PE222F
22 kW T2-TF RFID	EVP2PE222FR
22 kW T2S-TE	EVP2PE224E
22 kW T2S-TE RFID	EVP2PE224ER

EVlink Parking

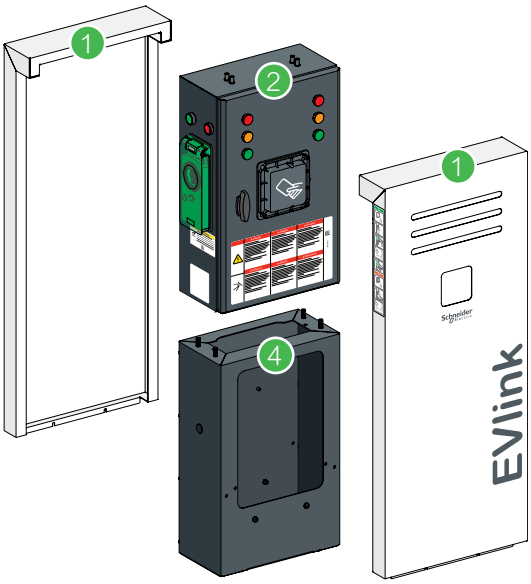
Practical information

Content - Only one person required

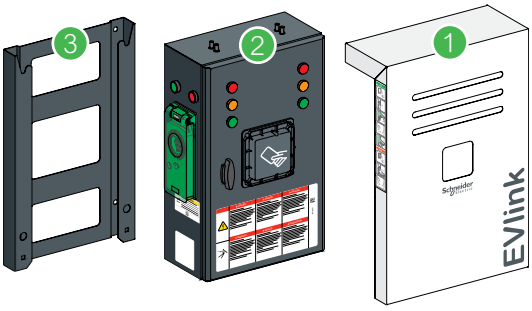
Only one person is required to handle and install the floor-standing or wall-mounted charging station.
This is possible thanks to delivery in three packages weighing less than 20 Kg each.

Package contents and weight indication

Floor-standing charging station



Wall-mounted charging station

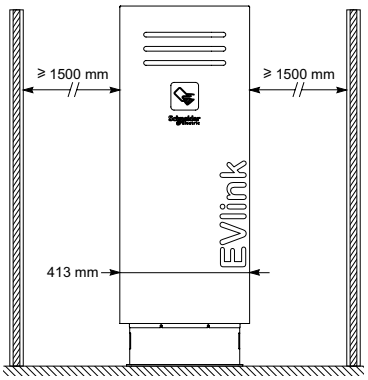


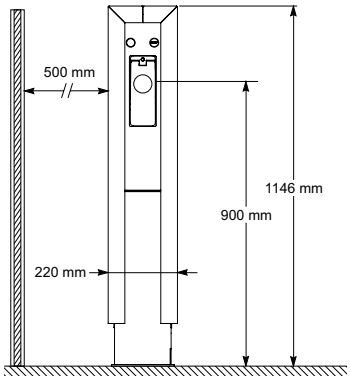
1 Cap
2 Enclosure
3 Wall base
4 Floor base

Charging station type		Floor-standing	Wall-mounted
Package	Composition	Weight	Weight
1	Cap	17 Kg	8 Kg
2	Enclosure	20 Kg	20 Kg
3	Wall base	-	5 Kg
4	Floor base	13 Kg	-

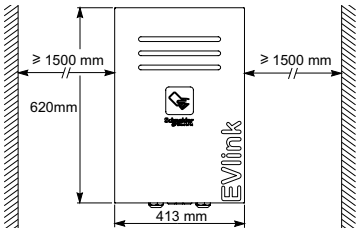
Dimensions (mm)

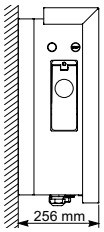
Floor-standing charging station

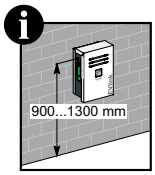




Wall-mounted charging station







Additional information

Technical document	Language	References
Installation guide	EN / FR	**NHA47410_EN_FR** (1)
	DE / RU	**NHA47410_DE_RU** (2)
	IT / ES	**NHA47410_IT_ES** (2)
	NO / SV	**QGH34417** (2)
EVlink Parking: Electrical diagram	ES / DE / IT / RU / EN / FR	**NHA81498** (1)
EVlink Commissioning Guide EVlink Parking	EN	**DOCA0060EN** (2)

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

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

Practical information

Recommended protective devices per charging station circuit

Electrical circuit protection - Specifications / Recommendation					
Powered device		1P - T2 outlet	3P T2 outlet	1P+N Dom. socket	1P+N Ctrl circuit
Rated Power - Current		7.4 kW - 32 A	22 kW - 32 A	2.3 kW - 10 A	100 W max.
Protective devices					
Circuit breaker (overcurrent)[1]		40 A curve C	40 A curve C	16 A curve C	10 A curve C
RCD (residual current)[1]		30 mA B Type for EV [2]: **A9Z51240**	30 mA B Type for EV: **A9Z51440**	30 mA A-SI Type	30 mA A-SI Type
		30 mA B-SI Type [2]: **A9Z61240**	30 mA B-SI Type: **A9Z61440**		
Under voltage tripping auxilary	with iC60	**A9A26969** [3]	**A9A26969** [3]	**A9A26969** [3]	-
	with DT40	**A9N26969** [3]	**A9N26969** [3]	**A9N26969** [3]	-

[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] Necessary to meet EV Ready requirements.

Easy installation with DIN rail mounting kit ref.: EVP1FKC compatible with floor standing charging station ref.: EVF2 and floor standing base EVP2FBS

Thanks to a modular floor base, installers can prepare wiring of protection devices at their workshops. This accessory allows to power the charging station with only one power cable, even for 2 plug-charging stations.

Step 1:

Wire protection devices on the adapted rail.

Step 2:

Insert wired protection kit in the floor base.

Step 3:

Finish the wiring.

Step 4:

Install the prewired floor base on site.

What's inside an EVlink Parking charging station

Scan or click on QR code

EcoStruxure™ Facility Expert

Register your charging station and improve your maintenance efficiency now with EcoStruxure™ Facility Expert.

- EcoStruxure™ Facility Expert is a simple, cloud-based tool that helps you organize maintenance records, follow-up on preventive maintenance, access log histories, create reports, and integrate remote alarming from your equipment.
- Let EcoStruxure™ Facility Expert help you optimize your maintenance activities. Download it for free on your PC or for your smart device at the Apple or Google Play store.
- You are ready to flash the product QR code with the EcoStruxure™ Facility Expert reader.

Available on the App Store

GET IT ON Google play

EVlink DC Fast Charge

In short

DC 24 kW - 1 connector / single standard
DC 24 kW - 2 or 3 connectors / multiple standards

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

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

Communication with dual modem for separate operation & maintenance supervision

Installation

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

Maintenance

- Reduced maintenance as there is no air filter to replace and a robust design (IP54, IK10) for uptime optimization.

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 & maintenance supervision

DC 24 kW - 2 or 3 connectors / multiple standards

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

Characteristics

EVD1S24T0H

EVD1S24T0H + EVP1DB1LG

EVD1S24THB

EVD1S24THB + EVP1DB2LG

EVD1S24THB2

EVD1S24THB2 + EVP1DB2LG

Mechanical and environmental features

- Degree of protection: IP54 (except cordsets)
- Degree of mechanical protection: IK10
- Operating temperature: -25°C / +50°C (with derating above 35°C)
- Storage temperature: -20°C to 45°C
- Operating altitude: 2000 m max.
- Relative humidity: 10% to 95%

Power supply network and charging mode

- Power supply: 380 - 480 V, 3P + N + Earth, 50 - 60 Hz
- Nominal supply current: 37 A

Direct current charging (all charging stations)

- Charging in Mode 4 (IEC 61851-23)
- Charging power: 24 kW
- Charging voltage/current: 150 to 530 V DC / 1.5 to 65 A with CHAdeMO, CCS Combo 2 sockets
- Protected against short circuit, overload; Residual Current Device on DC output; protected against overheating, temperature regulated
- Cable length: 3.25 m

Alternating current charging (3-socket charging station only)

- Charging in Mode 3 (IEC 61851-22)
- Charging power: 22 kW
- Protected against short circuit, overload; protected against overheating, temperature regulated
- Charging voltage/current: 400 V ± 10% AC, 3P + N + Earth, 32 A max., with the front AC Type 2 socket outlet

Communication

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

User interfaces

- 7-inch touch screen
- RFID card reader

Dimensions (cabinet without socket / cable)

- 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 on pedestal (mm): H 1835 x L 536 x W 336.

Charging station references

Standard compliance

- EV international standard: EN 61851 Ed. 2
- Immunity for industrial environment: EN 61000-6-2 - sept. 2015
- Emission for industrial environment: EN 61000-6-4 - 2017 + A1: 2011
- EMC for industrial environment: Class A.

EVlink DC Fast Chargers			
Power	Connector(s)	References	Weight (kg)
24 kW DC	CHAdeMO	**EVD1S24T0H**	**66**
	CCS Combo 2	**EVD1S24T0B**	**66**
	CHAdeMO + CCS Combo 2	**EVD1S24THB**	**85**
24 kW DC/22 kW AC	CHAdeMO + CCS Combo 2 + AC Type 2	**EVD1S24THB2**	**85**
Pedestals			
For EVlink DC fast chargers		References	Weight (kg)
For EVD1S24T0H, EVD1S24T0B		**EVP1DB1LG**	**51**
For EVD1S24THB, EVD1S24THB2		**EVP1DB2LG**	**53**

EVlink AC charging station testing tool

NEW

In short

Reference: EVA1SADS

Tool for trained electricians

This tool permits to check **correct operation** of an AC charging station:

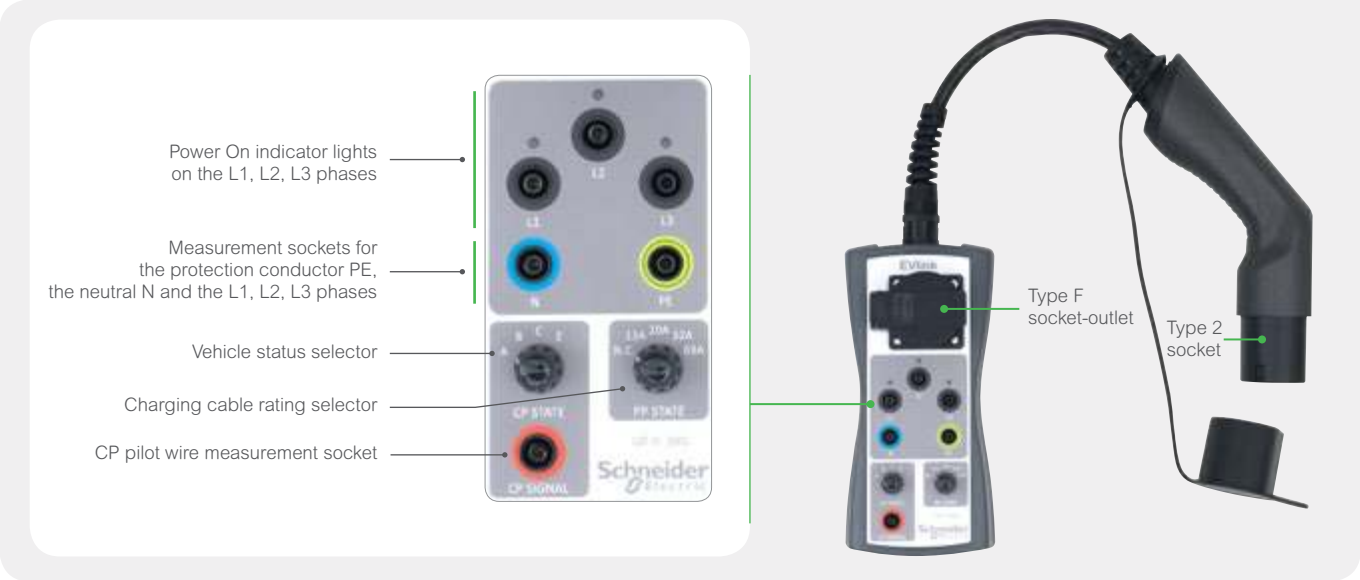
- EVlink Wallbox
- EVlink Smart Wallbox
- EVlink Parking
- EVlink City
- Any charging station complying with IEC 61851-1, by simulation of a vehicle during charging

Easy to carry

- Weight Approx. 795 g

Compatibility

- Accepts any cable fitted with a T2 connector
- Single-phase or three-phase alternating current charging
- Cable to be ordered separately; please refer to page 46.



Perfectly simple…

Once the testing tool is connected to the charging station, charging is started thanks to a button. **A few minutes** is all that's needed to check correct charging station operation

… and standalone

Power supply via the charging cable. No internal battery, **so unlimited time for servicing operations and for you peace of mind**

Possible Checks and measurements

a. Check voltage presence on each phase
b. Measure the voltage between phases, between phase and neutral, between neutral and ground
c. Check the ground continuity
d. Test the ground fault circuit interruption capacity of the charging station
e. Measure the voltage between the CP pilot wire and the ground
f. Observe the signals transmitted on the CP pilot wire.

Characteristics

Characteristics of the power supply network

- The testing tool is powered via the charging current
- Network frequency: 50 Hz
- Earthing system: TT or TN (do not use in IT)
- Voltage: 400 V∿ on type 2 connector
- Power: test consumer Max. 2.9 kVA (no continuous operation!)

Mechanical and environmental characteristics

- Degree of protection (as per IEC 60529): IP20
- Dimensions (H x L x D): complete with connector plug: 105 x 750 x 62 mm
- Weight: approx. 795 g
- Connector: Type 2 inlet • IEC 62196 type 2-II • U: 400V3~ • F: 50 Hz
- Storage temperature: -25°C / +60°C
- Operating temperature: -10°C / +45°C
- Risk of mechanical damage to the testing tool if dropped at a temperature < -2°C
- Relative humidity rate (RH): < Max. 80%, condensation ruled out

Accessories and documents included

- Instruction guide
- Detailed user manual (to be downloaded from the Web)

Certification

The AC charging station testing tool complies with standards IEC 61010-1 and IEC 61851-1

Recommended measuring instruments for additional tests

- Operations b, c, d, e, f, require the use of measuring instruments (multimeter, ground fault circuit interrupter tester, oscilloscope) not supplied with the EVlink testing tool
- For observation of signals during the electric vehicle status simulation test (signals in accordance with the IEC 61851 standard).

EVlink cables

Characteristics

EVlink cable for charging stations:

Mobility within arm's reach

Type 1 (T1) Type 2 (T2)

- Tested and certified product: Third-part laboratory CB certification (LCIE) complies with applicable standard IEC 62196
- High protection, fast charging (Mode 3)
- High-strength cable

Characteristics

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

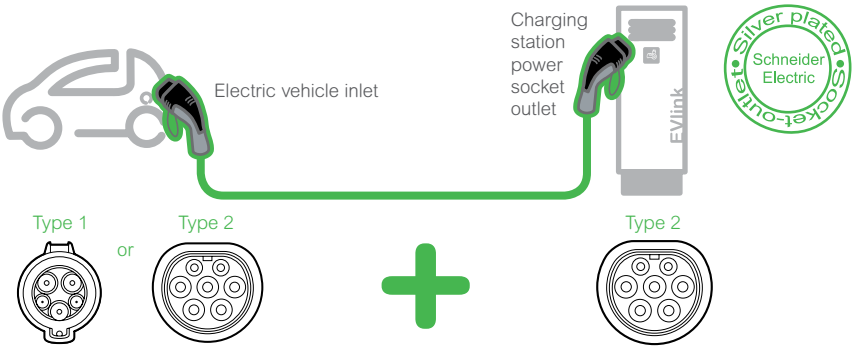
Two good reasons to have a second EVlink cable in your electric vehicle

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

2. **To have a fallback solution.**
   E.g.: charging cable damaged or misplaced, help out another electric vehicle user.

Which EVlink cable

for which electric vehicle?



References	No. of phases		Charging power accepted (kW)				Cable length
	1	3	3.7	7.4	11	22	(m)
T1 + T2							
EVP1CNS32121	●		●	●			5
EVP1CNL32121	●		●	●			7
EVP1CNX32121	●		●	●			10
T2 + T2							
EVP1CNS32122	●		●	●			5
EVP1CNL32122	●		●	●			7
EVP1CNX32122	●		●	●			10
EVP1CNS32322		●	●	●	●	●	5
EVP1CNL32322		●	●	●	●	●	7
EVP1CNX32322		●	●	●	●	●	10

2340A
EVlink

EVlink

Managing the Charging Station Energy

EVlink Load Management System

EVlink Load Management System

EVlink LMS Load Management System for EVlink Smart Wallbox, EVlink Parking and EVlink DC Fast Charge

EVlink Load Management System has been awarded with the prestigious "Solar impulse Efficient Solution" label.

Find out more here

EVlink Load Management System (EVlink LMS) allows to monitor, control and maximize EV charging based on the real-time available power in the building.

It ensures 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: Magelis iPC IIoT Edge Box Core
- Operating system: Linux Yocto
- Supply voltage: 12...24 V DC
- Inrush current: 0.43 A
- Consumption: 16 W
- Dimensions: 150 x 46 x 157 mm
- Protection class: IP40
- Compliance with 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

Current charging sessions

Charging history of electric vehicles

Functions

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

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)

User interface

EVlink LMS provides access to an ergonomic and intuitive user interface (web server) allowing to:

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

To download the latest release of the EVlink Load Management System software, please scan or click on the following QR code:

EVlink LMS references

		EVlink LMS with Static mode (dynamic load management with STATIC current setpoint)		EVlink LMS with Dynamic & Static modes (dynamic load management with DYNAMIC current setpoint, or STATIC current setpoint)				NEW
References [2]		**HMIBSCEA53D1ESS**	**HMIBSCEA53D1ESM**	**HMIBSCEA53D1EDB**	**HMIBSCEA53D1EDS**	**HMIBSCEA53D1EDM**	**HMIBSCEA53D1EDL**	**HMIBSCEA53D1EML**
Features								
Capacity	Number of EVlink charging stations	15	50	5	15	50	100	1000 [1]
Power management	Dynamic, with a STATIC current setpoint	●	●	●	●	●	●	●
	Dynamic, with a DYNAMIC current setpoint			●	●	●	●	●
	Time of use		●		●	●	●	●
Multi zone	Maximun number of zones	1	10	2	2	10	20	200
	Maximun number of zones levels	1	3	2	2	3	3	4
Other loads	Power consump-tion reporting on other feeders		●			●	●	●
Badge management	VIP privilege user badge		●			●	●	●
Stations management	VIP privilege charging station		●			●	●	●

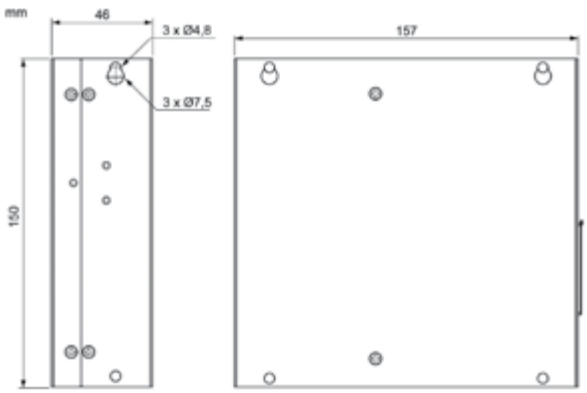
[1] Via the management of up to 9 slave EVlink Load Management System
[2] To upgrade from a current commercial reference to a higher-level one, please consult us.

Functions performed by all commercial references of EVlink LMS

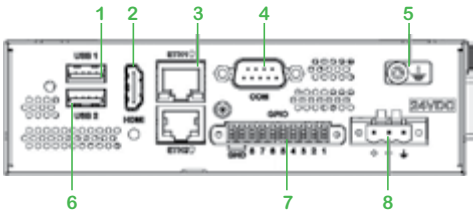
Access Management	Commissioning	Operation	Connectivity
Add, modify, delete, supervise badges	Commissioning all charging stations directly from EVlink LMS	Supervision through real time dashboard and remote actions on charging stations	Connection with CPO supervision (OCPP 1.6 Json)
	Save & restore commissioned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

[1] May require specific development

Dimensions



Rear view



1- USB1 (USB 2.0)
2- HDMI port
3- ETH1 (10/100/1000 Mbits/s)
4- COM port RS-232/422/485
5- Ground connection pin
6- USB2 (USB 2.0)
7- GPIO
8- DC power connector

EVlink Load Management System

Benefits

Simplified, decentralized, flexible installation architecture

- The EVlink Load Management System manages and controls **up to 100 charging stations from one same controller** and user interface dashboard
- With a decentralized and flexible architecture to maximize service continuity, offers the possibility to manage up to **1000 charging stations with a master/slave architecture**, with supervision and control in one only user interface dashboard for the entire system
- Is available in different versions to adapt to the specific customer needs, whether it is less than 5 charging stations, to up to 1000
- Allows to manage several parking zones, 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 EV charging needs evolve
- Operates with open protocols (OCPP 1.6Json) facilitating integration to other systems
- Allows the execution of installations in compliance with "EV/ZE Ready" standards
- 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 most recent firmware release available on se.com.

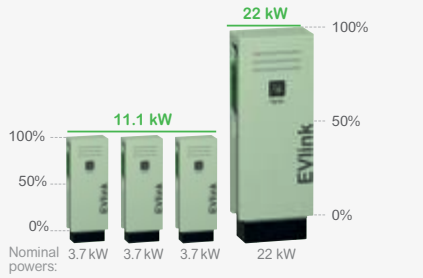
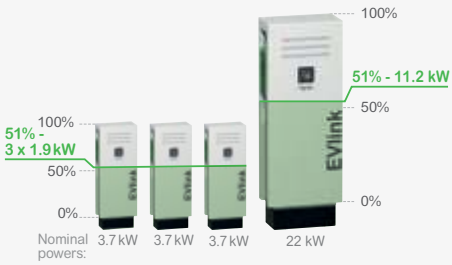
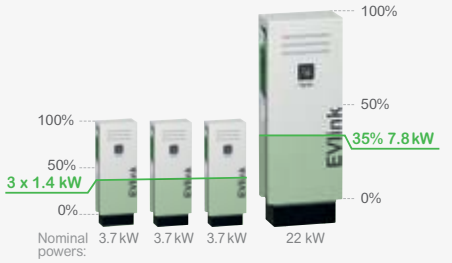
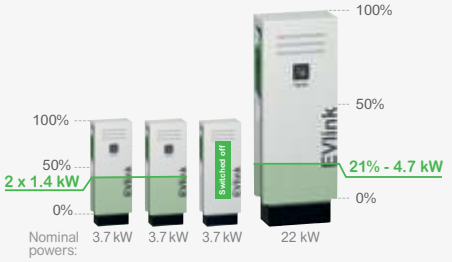
Multiple functionalities for efficient operation and trouble-free maintenance

- Integrates in a single product the local supervision of charging stations and their power management
- Includes an intuitive dashboard interface to manage and control the installation
- Maximizes 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 electricity price is high, and to maximize it when it is low (depending on the selected model)
- Reassures the electric vehicle driver who can see that the charging of his car is active before leaving it (a new vehicle is always actively charging when just connected), prioritized even when all the available power is already distributed to other vehicles being there for a longer time
- Allows the management of user badges without having to subscribe to a complementary supervision system
- Allows to define priority (VIP) user badges or charging stations, that will not be load-shed, or just when strictly necessary to ensure building 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, EVlink LMS is compatible with a CPO backend (OCPP 1.6J protocol)
- Offers integration capabilities as it communicates with the Building Management System (BMS) via a webservice (may require specific development)
- Offers the guarantee of a major international manufacturer and world leader in eMobility.

Operation

Description example to illustrate load reduction and load-shedding operation

- EVlink LMS controls the EV charging infrastructure
- It allows to limit the instantaneous power drawn by the entire set of connected electric vehicles, and manages the energy allocated to each one of them
- In real time, it transmits a setpoint to each charging station, which transfers it 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 reduction is done only on electrical phases in need of it.

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

Principle of load balancing between vehicules

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

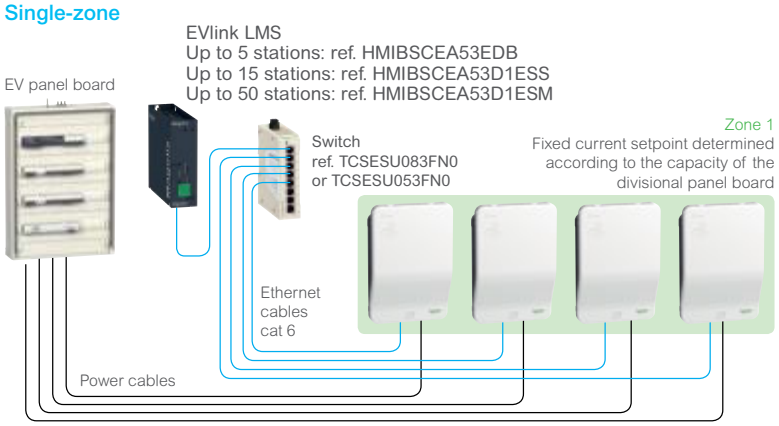
- **Based on the energy already consumed:** the system interrupts the charging of the vehicules that have obtained the highest amount of kWh since the start of their charging, favoring new vehicles.
- **Based on the connection time:** the system interrupts the charging of the vehicles with the longest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

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

Typical load management architectures

Static enegy management: Dynamic load management below a fixed current setpoint

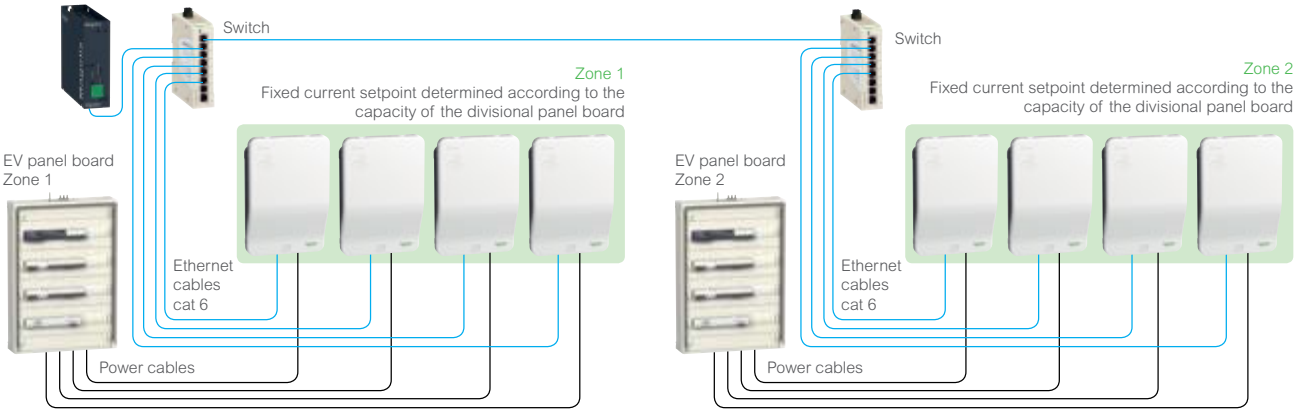
Single-zone



To select the right EVlink LMS commercial reference based on all available features, please check the selection table on page 51.

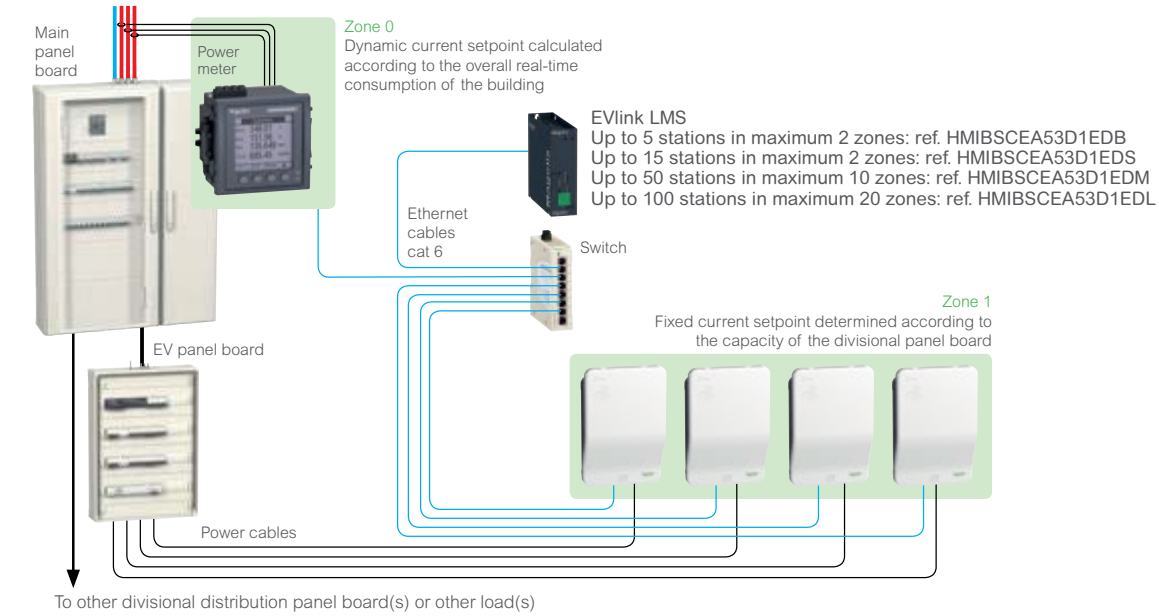
Multi-zone (multiple switchboards)

EVlink LMS
From 1 to 5 stations in total, in maximum 2 zones: ref. HMIBSCEA53D1EDB
From 1 to 15 stations in total in 1 same zone: ref. HMIBSCEA53D1ESS
From 1 to 15 stations in total, in maximum 2 zones: ref. HMIBSCEA53D1EDS
From 1 to 50 stations in total, in maximum 10 zones: ref. HMIBSCEA53D1ESM

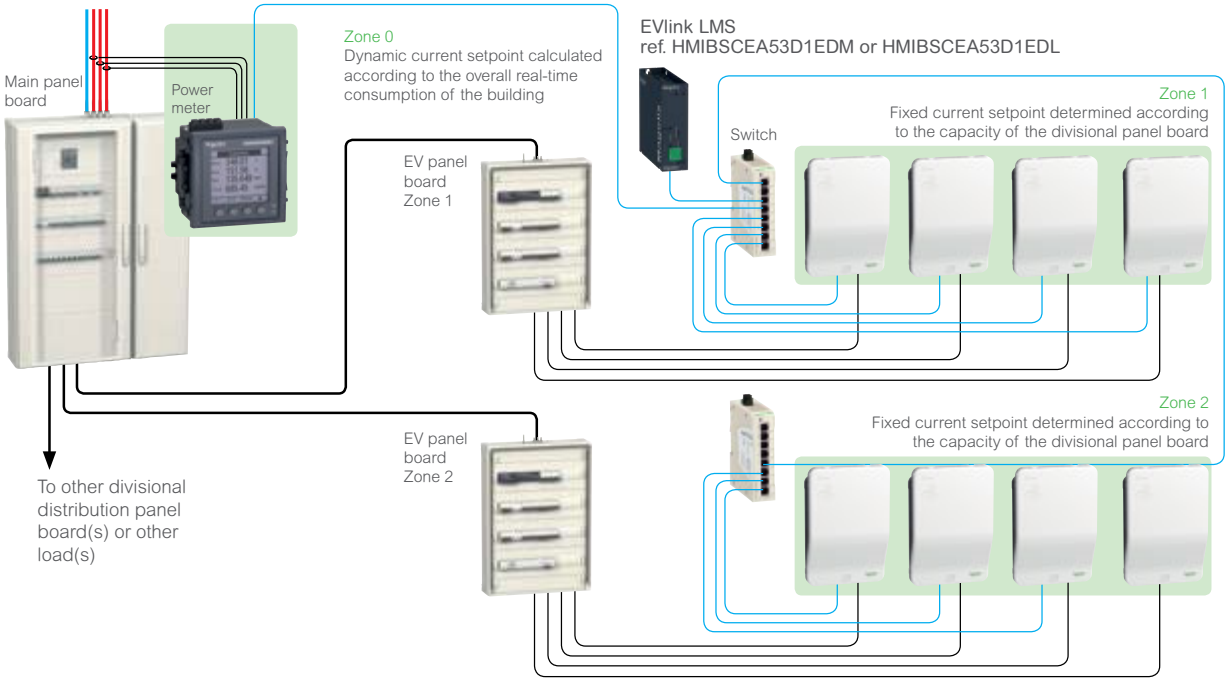


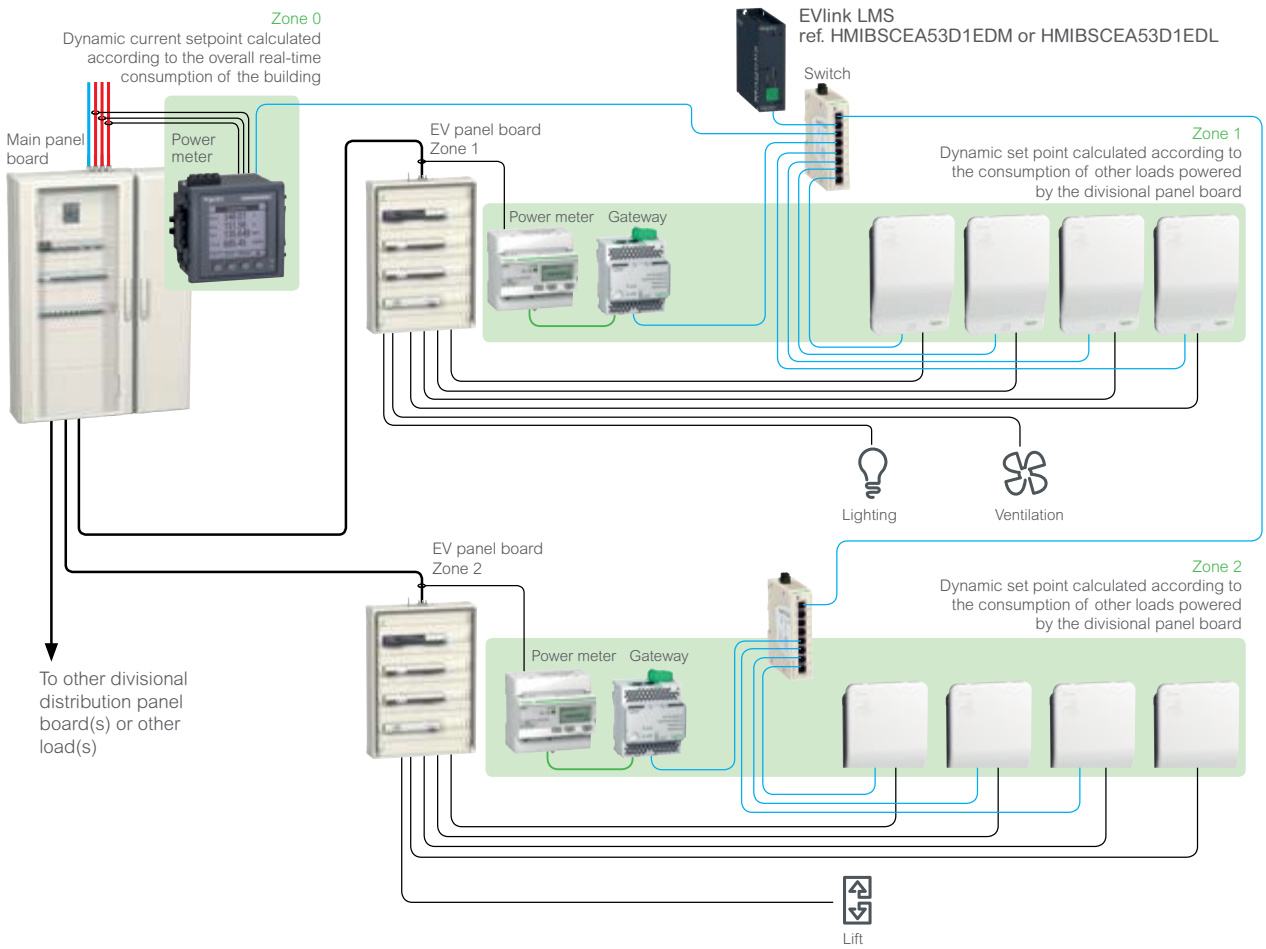
Dynamic load management from a dynamic current setpoint

Multi zone[1]



Multi zone[1]





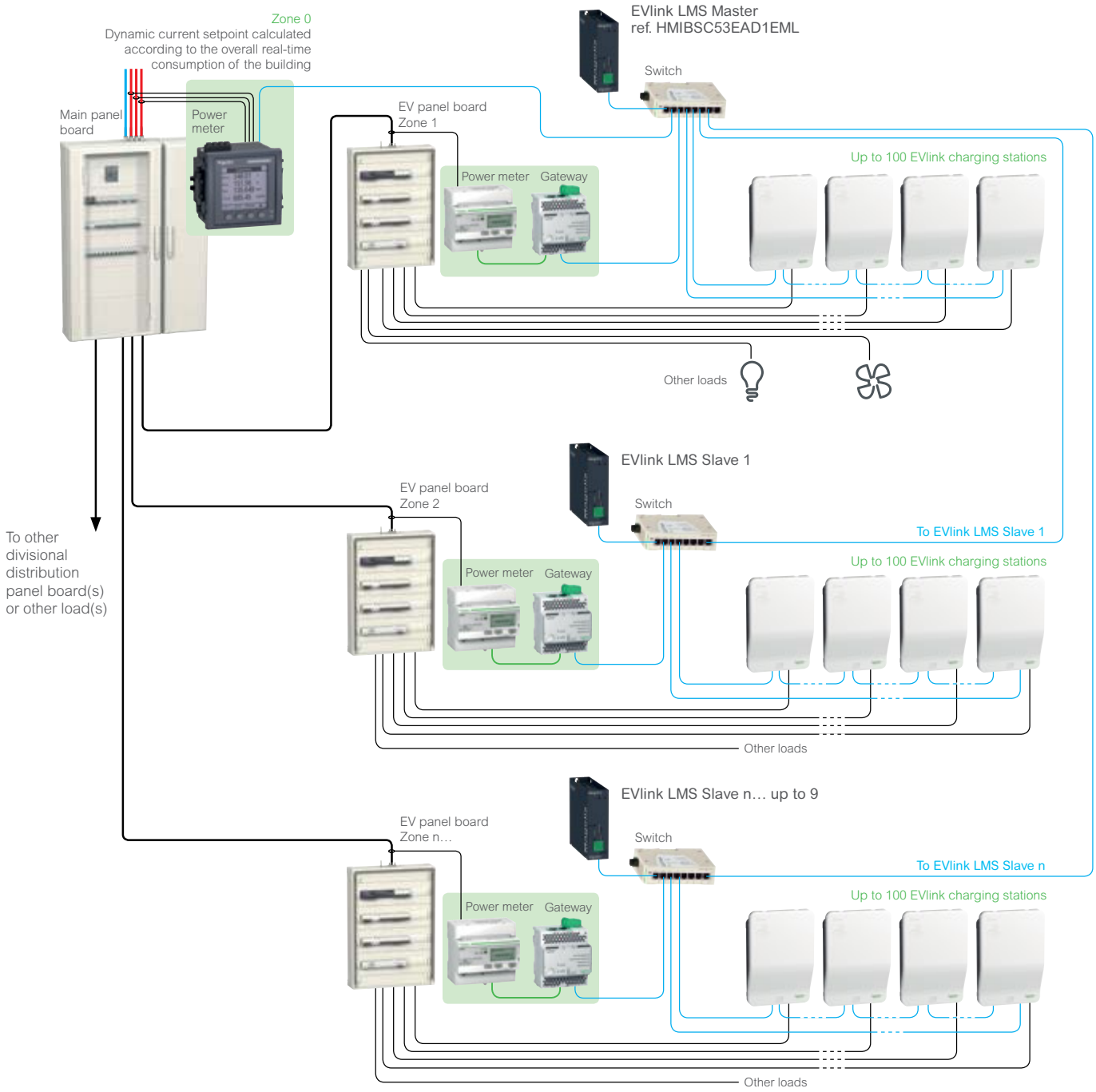
[1] No more than 3 cascaded zones. Otherwise, a EVlink LMS Master/Slave architecture is required (see next page)

Typical load management architectures

EVlink LMS Master/Slave architecture

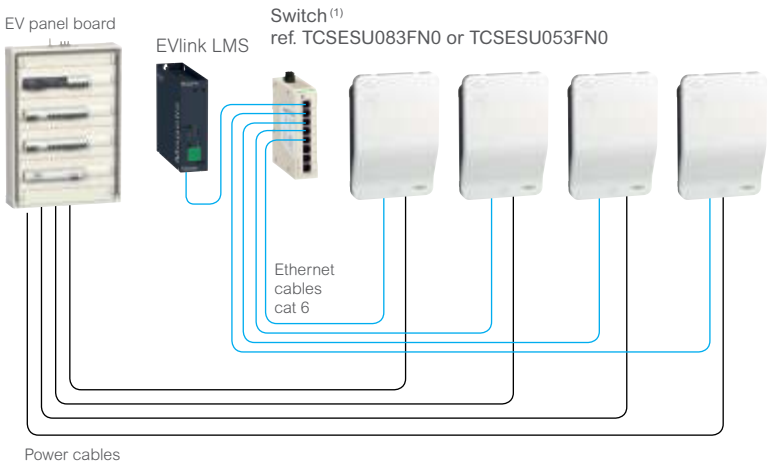
For more than 100 charging stations with dynamic or static load management

- An EVlink LMS Master can manage up to 9 EVlink LMS Slaves and up to 100 charging stations by itself. The total number of charging stations managed can therefore be up to 1000, distributed in up to 200 electrical zones
- Load management is implemented for the full scope of the system, and the supervision and control of it is aggregated in one only user interface dashboard for the entire system
- An EVlink LMS Master can manage any commercial reference as a slave. Those shall be selected based on the number of stations to be managed by slave
- The EVlink LMS Master includes a specific configuration assistant to ease the entire system configuration.

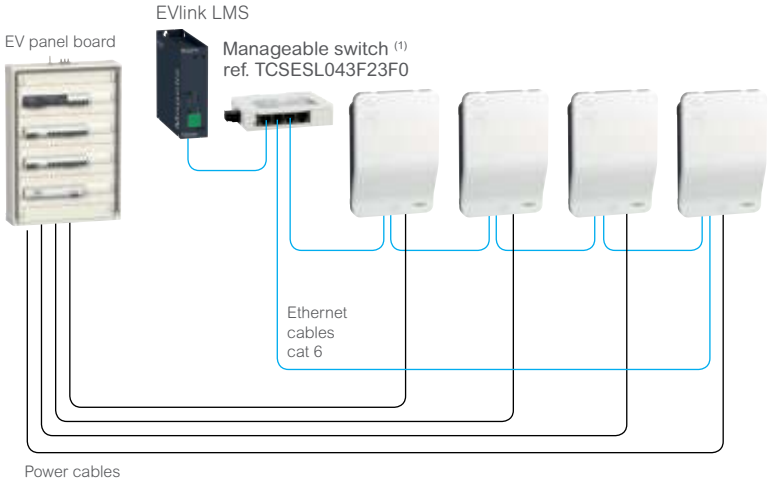


IT network possible topologies

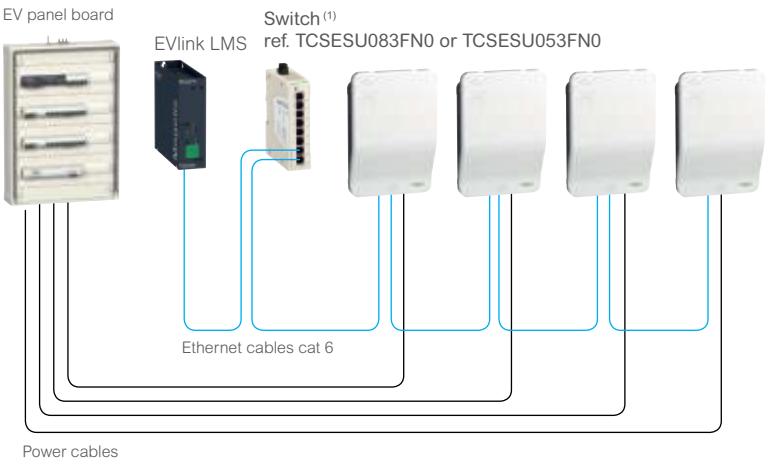
Star topology



Ring topology



Daisy chain topology (2)



(1) Provide 3 available ports on the switch for a computer (settings and maintenance), a modem, the customer network, etc.
(2) This topology does not ensure optimum continuity of service.

Metering solutions

Standalone meters with external current transformers

METSEPM5320

PowerLogic Power meter

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

To be completed with (not provided)
- a closed Current Transformer
- a cut-off device
- a short-circuiting block

A9MEM3255

A9MEM3555

iEM Energy meters

Commercial reference	A9MEM3255	A9MEM3555
Allocation of costs	MID class C	-
Communication	Modbus	Modbus
Class of accuracy	0.5 S with TI 5 A, 1 with TI 1 A	0.5 S
Width	5 x 18 mm modules	5 x 18 mm modules
To be completed with (not provided)	Closed current transformers	Rogowski current transformers
	a cut-off device	
	a short-circuiting block	
	a Link 150 gateway	

EGX150

Modbus – Ethernet Link 150 gateway

Commercial reference	EGX150
Ethernet communication	2 Ethernet ports type 10/100 Base TX protocol: HTTP, Modbus TCP/IP, FTP, SNMP
Serial communication	2 serial ports (RS232 or RS485, 2 or 4 wires)
	Modbus serial protocol
	Max. no. of devices: 32 directly (or 247 indirectly)
Power supply	24 V DC or PoE (15 W class 3)
Consumption	130 mA / 24 V DC - 65 mA / PoE 48 V DC
Width	8 x 9 mm modules
Operating temperature	-25°C to +70°C

Circuit breakers with embedded metering

Enerlin'X IFE
LV434002

ComPact NSX

Enerlin'X IFE switchboard server, ComPact NSX circuit breaker

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

MasterPact MTZ with Micrologic Control unit and Enerlin'X EIFE
LV851001

Enerlin'X EIFE Embedded Ethernet interface for draw out Masterpact MTZ

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

EVlink Electrical Distribution

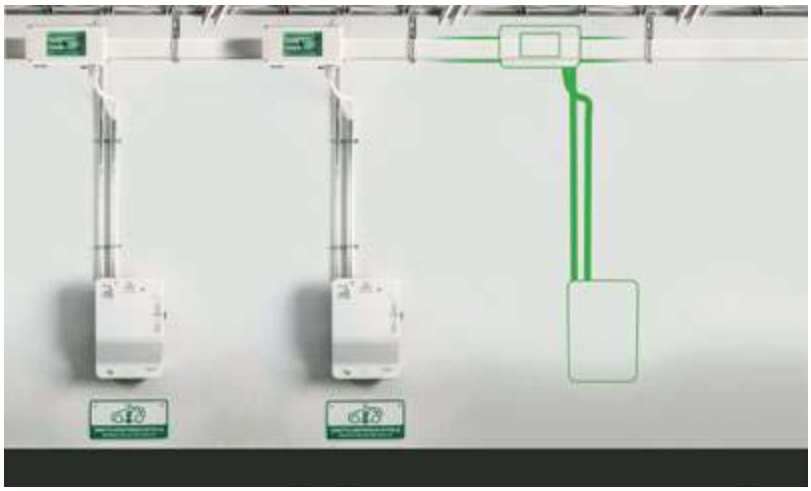
Canalis busbar trunking system
Canalis KN, Canalis KS preassembled protection kits for EV chargers

Electrical distribution

Canalis busbar trunking system

Experience the decentralized electrical distribution with Canalis busbar trunking system.

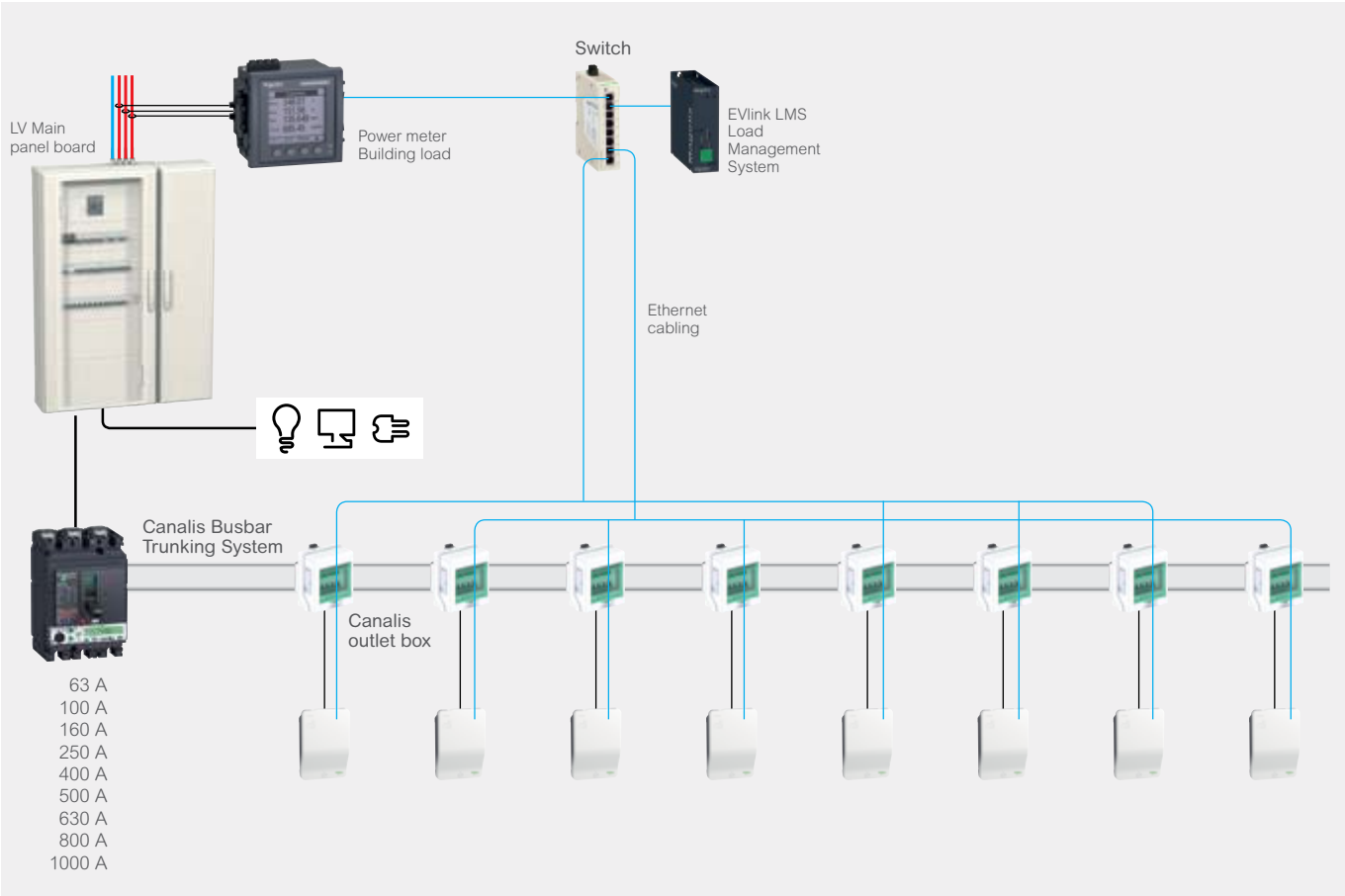
Save space and cost in your LV Switchboard, benefit from installation in half the time in comparison with cables, better reliability and personal safety. Canalis is scalable, flexible and future-proof solution for your EV installation, well adapted to indoor car parks / garages.



A reliable, scalable and pluggable electrical distribution solution is provided by the Canalis busbar trunking system.

This solution is well adapted to indoor car parks, company garages…

- **Canalis KN,** distribution from 40 to 160 A, Tap-off units from 16 to 63 A
- **Canalis KS,** distribution from 100 to 1000 A, Tap-off units from 16 to 400 A.



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

- **2-pole and 4-pole pre-assembled and pre-cabled kits for Canalis KN up to 160 A integrating:**
  - 1 x 8-module tap-off unit
  - 1 x circuit breaker
  - 1 x RCD B-type for electric vehicle applications

Charging station power	Description of the kit	Included			Kit reference
kW		Tap-off unit	MCB	RCD	
3.7	Protection kit Canalis KN 8 mod. 2P MCB 25 A RCD B EV	KNB63SM48	A9F04220	A9Z51225	**EVK8KN2PB25**
7.4	Protection kit Canalis KN 8 mod. 2P MCB 40 A RCD B EV		A9F04240	A9Z51240	**EVK8KN2PB40**
11	Protection kit Canalis KN 8 mod. 4P MCB 25 A RCD B EV		A9F04420	A9Z61425	**EVK8KN4PB25**
22	Protection kit Canalis KN 8 mod. 4P MCB 40 A RCD B EV		A9F04440	A9Z51440	**EVK8KN4PB40**

- **2-pole and 4-pole pre-assembled and pre-cabled kits for Canalis KS up to 250 A integrating:**
  - 1 x 8-module tap-off unit
  - 1 x circuit breaker
  - 1 x RCD B-type for electric vehicle applications

Charging station power	Description of the kit	Included			Kit reference
kW		Tap-off unit	MCB	RCD	
3.7	Protection kit Canalis KS 8 mod. 2P MCB 25 A RCD B EV	KSB63SM48	A9F04220	A9Z51225	**EVK8KS2PB25**
7.4	Protection kit Canalis KS 8 mod. 2P MCB 40 A RCD B EV		A9F04240	A9Z51240	**EVK8KS2PB40**
11	Protection kit Canalis KS 8 mod. 4P MCB 25 A RCD B EV		A9F04420	A9Z61425	**EVK8KS4PB25**
22	Protection kit Canalis KS 8 mod. 4P MCB 40 A RCD B EV		A9F04440	A9Z51440	**EVK8KS4PB40**

* Check availability in your country.

EVlink

Solutions for Your Project

"Turnkey" project
Services for contractors
Services for operators

Solutions for your project

Listen
Understand
Propose

Your Schneider Electric correspondent is a professional, specialized in the charging infrastructure solution.

Based on the technical and economic data of your charging station project, he or she will propose the appropriate solution:

- "Turnkey" charging station project performed by Schneider Electric
- Sale of charging stations and services with possible support at start-up.

Preliminary technical audit

To contract the optimum solution.

For example, this service is essential when the charging station consumption could jeopardize the electrical infrastructure of an existing facility.

"Turnkey" project

The charging station project is proposed to you in a contractual document

It specifies the following information:

- Precise characteristics of the structure
- Schedule of the various project phases and a delivery date
- Technical documents submitted for operation and maintenance
- Conditions of support services

On the agreed date, Schneider Electric will deliver the complete solution in operating conditions and allowing on-site training of operating personnel.

The project is managed entirely by the eMobility Center of Expertise.

A single contact for the project team, whatever the subject, commercial or technical.

Energy management and supervision are key to the expertise of project teams

Solutions

Our comprehensive energy management solutions are generally included in "turnkey" projects.

Services for contractors

Designers, installers ...
Develop new competencies, get support from our specialists to make your business more efficient

Training on regulations, electrical and communication architectures, setup, tests and maintenance for contractors

- Charging station design principles.
- Learning about and mastering Schneider Electric standard architectures, charging stations, components, and monitoring services.
- Training in assembly, operating tests and maintenance procedures.

Technical support during projects

If necessary, priority access to our specialists is provided through a hotline or on-site as a paying service.

Services for operators

Private or public parking operators, fleet managers …

Schneider Electric helps you save time and preserves your peace of mind through maintenance of your charging station infrastructure.

Maintenance:
preserving availability

Schneider Electric has trained a network of local installer-partners.

They perform routine maintenance of your charging stations and perform repairs if necessary. They are supported by our Customer Care Centers.

EVlink
Schneider

List of references

Link for mySchneider App download

Scan or click on QR code

mySchneider app gives access to

- Customer Care Center
- On line Schneider-electric catalogues
- Green Premium information
- ...

eMobility news on the website

- Information
- Advice
- Charging solutions

and much more!

Scan or click on QR code

EVlink

EVlink Wallbox charging stations

Characteristics	References	
	Wallbox Standard	Wallbox Plus
Charging stations with socket outlet		
3.7 kW – T2	EVH2S3P02K	EVH3S3P02K
7.4 kW – T2	EVH2S7P02K	EVH3S7P02K
11 kW – T2	EVH2S11P02K	EVH3S11P02K
22 kW – T2	EVH2S22P02K	EVH3S22P02K
3.7 kW – T2 with shutters	EVH2S3P04K	EVH3S3P04K
7.4 kW – T2 with shutters	EVH2S7P04K	EVH3S7P04K
11 kW – T2 with shutters	EVH2S11P04K	EVH3S11P04K
22 kW – T2 with shutters	EVH2S22P04K	EVH3S22P04K
Charging stations with 4 m attached cable		
3.7 kW – T1	EVH2S3P0AK	EVH3S3P0AK
7.4 kW – T1	EVH2S7P0AK	EVH3S7P0AK
3.7 kW – T2	EVH2S3P0CK	EVH3S3P0CK
7.4 kW – T2	EVH2S7P0CK	EVH3S7P0CK
11 kW – T2	EVH2S11P0CK	EVH3S11P0CK
22 kW – T2	EVH2S22P0CK	EVH3S22P0CK

Spare parts	References
Key lock	
Key lock random (1 lock + 2 keys)	EVP1HLSR
Key lock single (10 locks + 20 identical keys)	EVP1HLSS
Front panel	
Front panel	EVP1HCWN
Socket outlet	
T2S single-phase	EVP1HSM41
T2 single-phase	EVP1HSM21
T2S three-phase	EVP1HSM43
T2 three-phase	EVP1HSM23
Attached cable	
Attached cable T1 - 16 A single-phase	EVP2CNS161A4
Attached cable T1 - 32 A single-phase	EVP2CNS321A4
Attached cable T2 - 16 A single-phase	EVP2CNS161C4
Attached cable T2 - 32 A single-phase	EVP2CNS321C4
Attached cable T2 - 16 A three-phase	EVP2CNS163C4
Attached cable T2 - 32 A three-phase	EVP2CNS323C4

Accessories	Reference
Pedestal for 1 EVlink Wallbox NEW Available 4th quarter of 2020	EVP2PBSSG1
Pedestal for 2 EVlink Wallbox NEW Available 4th quarter of 2020	EVP2PBSSG2
Kit to update pedestal for 1 EVlink Wallbox to 2 EVlink Wallbox	EVP2PBSSGC

Additional offer

Test tool	Reference
AC charging station testing tool NEW	EVA1SADS

EVlink Smart Wallbox charging stations

Characteristics	References
Charging stations with socket outlet	
7.4 / 22 kW – T2 - Key lock	**EVB1A22P2KI**
7.4 / 22 kW – T2 - RFID	**EVB1A22P2RI**
7.4 / 22 kW – T2 shutter - Key lock	**EVB1A22P4KI**
7.4 / 22 kW – T2 shutter - RFID	**EVB1A22P4RI**
7.4 / 22 kW – T2 shutter + TE - Key lock	**EVB1A22P4EKI**
7.4 / 22 kW – T2 shutter + TE - RFID	**EVB1A22P4ERI**
Charging stations with 4.5 m attached cable	
7.4 kW – T1 - Key lock	**EVB1A7PAKI**
7.4 kW – T1 - RFID	**EVB1A7PARI**
7.4 kW – T2 - Key lock	**EVB1A7PCKI**
7.4 kW – T2 - RFID	**EVB1A7PCRI**
22 kW – T2 - Key lock	**EVB1A22PCKI**
22 kW – T2 - RFID	**EVB1A22PCRI**

Spare parts	References
Key lock	
Key lock random (1 lock + 2 keys)	**EVP1HLSR**
Key lock single (10 locks + 20 identical keys)	**EVP1HLSS**
Front panel	
Front panel	**EVP1HCWN**
Socket outlet	
Socket outlet T2S three-phase	**EVP1BSE43**
Socket outlet T2 three-phase	**EVP1BSE23**
Domestic socket outlet TE	**EVP1BSSE**
Attached cable	
Attached cable T1 - 32A single-phase	**EVP1CBS321A45**
Attached cable T2 - 32A single-phase	**EVP1CBS321C45**
Attached cable T2 - 32A three-phase	**EVP1CBS323C45**

Accessories	References
Pack of 10 RFID badges	**EVP1BNS**
Pedestal for 1 EVlink Wallbox NEW Available 4th quarter of 2020	**EVP2PBSSG1**
Pedestal for 2 EVlink Wallbox NEW Available 4th quarter of 2020	**EVP2PBSSG2**
Kit to update pedestal for 1 EVlink Wallbox to 2 EVlink Wallbox NEW Available 4th quarter of 2020	**EVP2PBSSGC**
Communication interfaces	
3G/4G modem NEW	**EVP3MM**
3G/4G modem antenna (for EVlink Smart Wallbox only)	**EVP2MX**

Additional offer

Test tool	Reference
AC charging station testing tool NEW	**EVA1SADS**

EVlink

EVlink Parking charging stations

Characteristics[1]	References
Floor-standing charging stations	
7.4 kW – 1 x T2	EVF2S7P02
7.4 kW – 1 x T2 – RFID	EVF2S7P02R
7.4 kW – 1 x T2 with shutters	EVF2S7P04
7.4 kW – 1 x T2 with shutters – RFID	EVF2S7P04R
7.4 kW – 2 x T2	EVF2S7P22
7.4 kW – 2 x T2 – RFID	EVF2S7P22R
7.4 kW – 2 x T2 with shutters	EVF2S7P44
7.4 kW – 2 x T2 with shutters – RFID	EVF2S7P44R
7.4 / 2.3 kW – T2 / TF	EVF2S7P2F
7.4 / 2.3 kW – T2 / TF – RFID	EVF2S7P2FR
7.4 / 2.3 kW – T2 with shutters / TE	EVF2S7P4E
7.4 / 2.3 kW – T2 with shutters / TE – RFID	EVF2S7P4ER
22 kW – 1 x T2	EVF2S22P02
22 kW – 1 x T2 – RFID	EVF2S22P02R
22 kW – 1 x T2 with shutters	EVF2S22P04
22 kW – 1 x T2 with shutters – RFID	EVF2S22P04R
22 kW – 2 x T2	EVF2S22P22
22 kW – 2 x T2 – RFID	EVF2S22P22R
22 kW – 2 x T2 with shutters	EVF2S22P44
22 kW – 2 x T2 with shutters – RFID	EVF2S22P44R
22 / 2.3 kW – T2 / TF	EVF2S22P2F
22 / 2.3 kW – T2 / TF – RFID	EVF2S22P2FR
22 / 2.3 kW – T2 with shutters / TE	EVF2S22P4E
22 / 2.3 kW – T2 with shutters / TE – RFID	EVF2S22P4ER
Wall-mounted charging stations	
7.4 kW – 1 x T2	EVW2S7P02
7.4 kW – 1 x T2 – RFID	EVW2S7P02R
7.4 kW – 1 x T2 with shutters	EVW2S7P04
7.4 kW – 1 x T2 with shutters - RFID	EVW2S7P04R
7.4 kW – 2 x T2	EVW2S7P22
7.4 kW – 2 x T2 – RFID	EVW2S7P22R
7.4 kW – 2 x T2 with shutters	EVW2S7P44
7.4 kW – 2 x T2 with shutters - RFID	EVW2S7P44R
22 kW – 1 x T2	EVW2S22P02
22 kW – 1 x T2 – RFID	EVW2S22P02R
22 kW – 1 x T2 with shutters	EVW2S22P04
22 kW – 1 x T2 with shutters - RFID	EVW2S22P04R
22 kW – 2 x T2	EVW2S22P22
22 kW – 2 x T2 – RFID	EVW2S22P22R
22 kW – 2 x T2 with shutters	EVW2S22P44
22 kW – 2 x T2 with shutters - RFID	EVW2S22P44R

[1] Charging stations characteristics = Power – Number x type of socket outlet – RFID: badge reader.

Accessories	
Pack of 10 RFID badges	EVP1BNS
Cable holder	EVP1PH
DIN rail mounting kit	EVP1FKC
Protective cover – only for wall-mounted charging station	EVP1WPSC
Communication interfaces	
3G/4G modem NEW	EVP3MM
3G/4G modem antenna (for EVlink Parking only)	EVP2MP

EVlink Parking charging stations

Spare parts	References
Enclosure	
7.4 kW – 1 x T2	**EVP2PE702**
7.4 kW – 1 x T2 – RFID	**EVP2PE702R**
7.4 kW – 1 x T2 with shutters	**EVP2PE704**
7.4 kW – 1 x T2 with shutters – RFID	**EVP2PE704R**
7.4 kW – 2 x T2	**EVP2PE722**
7.4 kW – 2 x T2 – RFID	**EVP2PE722R**
7.4 kW – 2 x T2 with shutters	**EVP2PE744**
7.4 kW – 2 x T2 with shutters – RFID	**EVP2PE744R**
7.4 / 2.3 kW – T2/TF	**EVP2PE72F**
7.4 / 2.3 kW – T2/TF – RFID	**EVP2PE72FR**
7.4 / 2.3 kW – T2 with shutters/TE	**EVP2PE74E**
7.4 / 2.3 kW – T2 with shutters/TE – RFID	**EVP2PE74ER**
22 kW – 1 x T2	**EVP2PE2202**
22 kW – 1 x T2 – RFID	**EVP2PE2202R**
22 kW – 1 x T2 with shutters	**EVP2PE2204**
22 kW – 1 x T2 with shutters – RFID	**EVP2PE2204R**
22 kW – 2 x T2	**EVP2PE2222**
22 kW – 2 x T2 – RFID	**EVP2PE2222R**
22 kW – 2 x T2 with shutters	**EVP2PE2244**
22 kW – 2 x T2 with shutters – RFID	**EVP2PE2244R**
22 / 2.3 kW – T2/TF	**EVP2PE222F**
22 / 2.3 kW – T2/TF – RFID	**EVP2PE222FR**
22 / 2.3 kW – T2 with shutters/TE	**EVP2PE224E**
22 / 2.3 kW – T2 with shutters/TE – RFID	**EVP2PE224ER**
Base	
Floor-standing base	**EVP2FBS**
Wall-mounted base	**EVP1WBS**
Cap	
Floor standing	**EVP2FCG**
Wall mounted	**EVP2WCG**
Socket outlet	
Green socket outlet T2	**EVP1PSS2**
Green socket outlet T2S	**EVP1PSS4**
Green socket outlet TE	**EVP1PSSE**
Green socket outlet TF	**EVP1PSSF**

Additional offer

Test tool	Reference
AC charging station testing tool NEW	**EVA1SADS**

EVlink

EVlink DC Fast Charge

Characteristics		References
DCFC 24 kW with 3.25 m attached cable		
EVlink 24 kW DC Charger	CHAdeMO single	**EVD1S24T0H**
	CCS Combo 2 single	**EVD1S24T0B**
	CHAdeMO - CCS Combo 2 bi-standard	**EVD1S24THB**
EVlink 24/22 kW DC/AC Charger	CHAdeMO - CCS Combo 2 Type 2 tri-standard	**EVD1S24THB2**

Accessories		References
Pedestal for EVlink 24 kW DC Charger	Single	**EVP1DB1LG**
	Multi	**EVP1DB2LG**

EVlink Load Management System

Characteristics [1]		References [2]
EVlink Load Management System	up to 5 charging stations dynamic or static setpoint	**HMIBSCEA53D1EDB**
	up to 15 charging stations dynamic or static setpoint	**HMIBSCEA53D1EDS**
	up to 50 charging stations dynamic or static setpoint	**HMIBSCEA53D1EDM**
	up to 100 charging stations dynamic or static setpoint	**HMIBSCEA53D1EDL**
	up to 15 charging stations static setpoint	**HMIBSCEA53D1ESS**
	up to 50 charging stations static setpoint	**HMIBSCEA53D1ESM**
	up to 1000 charging stations, Master/Slave architecture	**HMIBSCEA53D1EML** NEW

[1] To upgrade from a current commercial reference to a higher-level one, please consult us.
[2] To select the right commercial reference based on all available features, please consult the selection table on page 51.

Canalis kits

Charging station power	Description	References
Canalis KN	Protection kit Canalis	
3.7 kW	KN 8 mod. 2P MCB 25 A RCD B EV	**EVK8KN2PB25** NEW
7.4 kW	KN 8 mod. 2P MCB 40 A RCD B EV	**EVK8KN2PB40** NEW
11 kW	KN 8 mod. 4P MCB 25 A RCD B EV	**EVK8KN4PB25** NEW
22 kW	KN 8 mod. 4P MCB 40 A RCD B EV	**EVK8KN4PB40** NEW
Canalis KS	Protection kit Canalis	
3.7 kW	KS 8 mod. 2P MCB 25 A RCD B EV	**EVK8KS2PB25** NEW
7.4 kW	KS 8 mod. 2P MCB 40 A RCD B EV	**EVK8KS2PB40** NEW
11 kW	KS 8 mod. 4P MCB 25 A RCD B EV	**EVK8KS4PB25** NEW
22 kW	KS 8 mod. 4P MCB 40 A RCD B EV	**EVK8KS4PB40** NEW

Charging cables

EVlink charging cable				References
Plug-Connector	Rated current	Phase	Length	
T2-T1	32 A	1	5 m	**EVP1CNS32121**
			7 m	**EVP1CNL32121**
			10 m	**EVP1CNX32121**
T2-T2	32 A	1	5 m	**EVP1CNS32122**
			7 m	**EVP1CNL32122**
			10 m	**EVP1CNX32122**
	32 A	3	5 m	**EVP1CNS32322**
			7 m	**EVP1CNL32322**
			10 m	**EVP1CNX32322**

Note

Life Is On | Schneider Electric

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