EVInk

Catalog 2020 Electric vehicle charging solutions



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EVlink

Green Premium[™]

An industry leading portfolio of offers delivering sustainable value



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



Discover what we mean by green Check your products! 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.

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

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

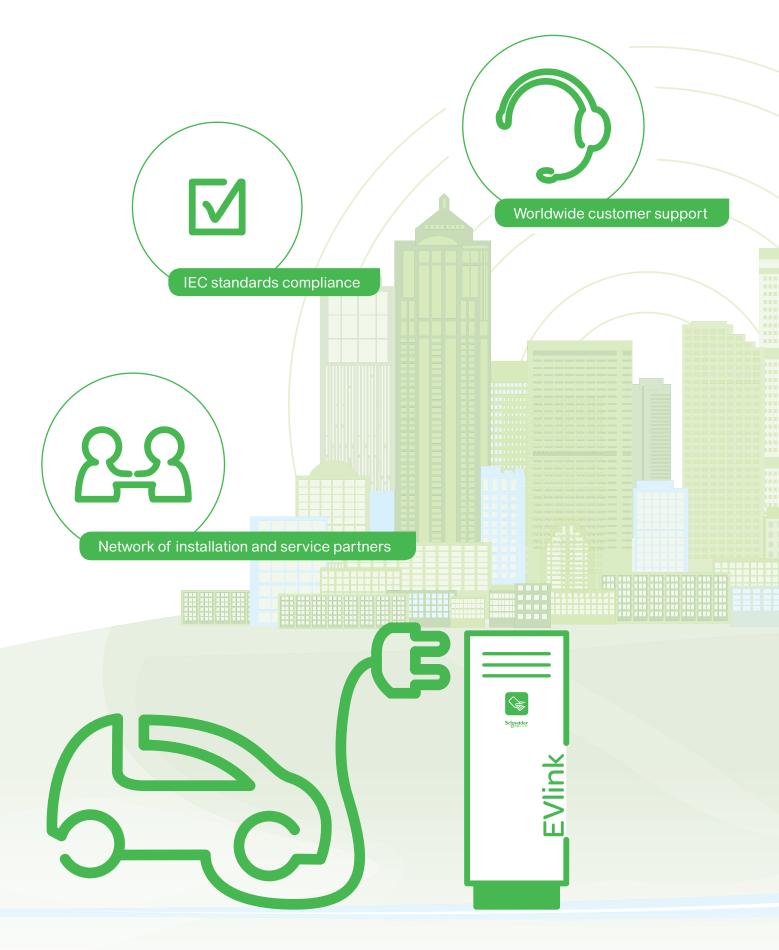
Improved sales through... Differentiation

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.

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EVlink charging solutions:



giving confidence in the future



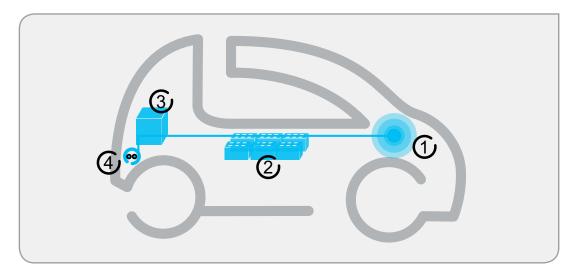
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How it Works

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

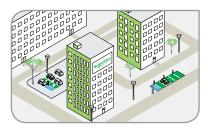
The vehicle is fitted with at least one inlet for AC charging. In some vehicles the inlet can also be used for DC fast charging or is completed by a second inlet for DC fast charging.

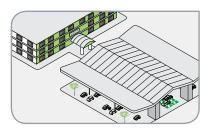


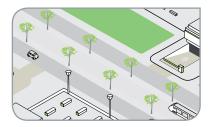
Where to charge

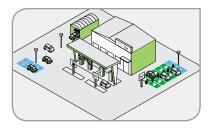












At home

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 semipublic 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.

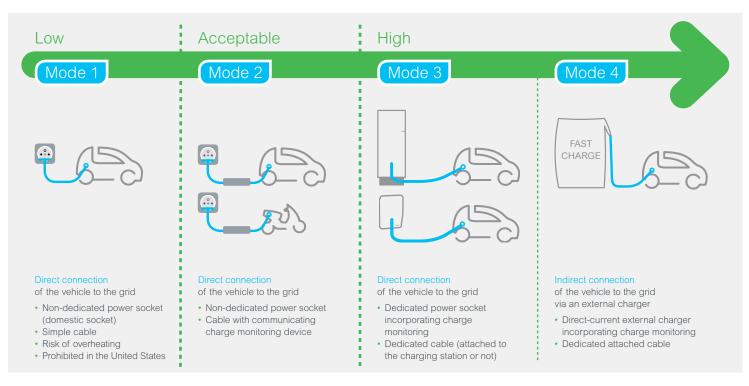
Electric car sharing is another service offer that municipalities now promote. Charging station networks allow combined use by car-sharing services and electric vehicle drivers.

At service station

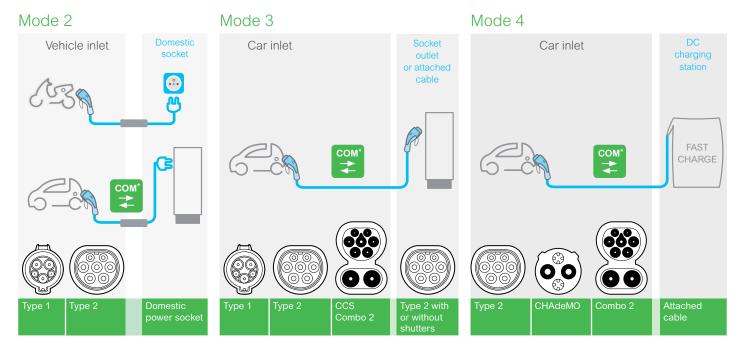
Service stations equipped for fast charging are appearing at test locations in some countries. Customers use the less than 30 minutes charging time to take a break or shop in the supermarket.

Charging

> The charging mode determines the protection level



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





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
G-in		-	
		Domestic power socket	
7 kW	2.3 kW (Mode 2)	2.3 kW (Mode 2)	2.3 kW
6-28		Charging station	
7 kW	7.4 kW (Mode 3)	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	O _{7 h}	C 2h30 min	(D _{2h}
% of charge reached in 30 min	3%	7%	20%	25%

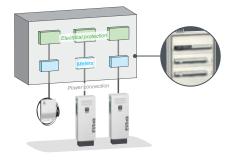
(*) Subject to the use of a suitable cable.

Focus on technology

Electrical distribution architecture

Standalone

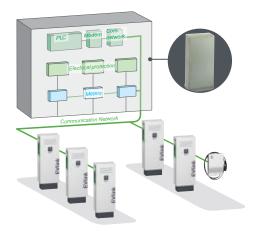
One or several charging stations can be connected to the same protection panel. The protection could also be installed in the Parking station floor base (see chapter page 34). Each charging station operates independently. They are protected upstream and their consumption can be measured. The charging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





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 su	oply.		
Charging mode	Mode 2	Mode 3		Mode 4	
	Use of charging cable equipped with its control interface.	Advanced charging co communication betwee vehicle. Use of direct o	en station and	communicatior	ging control with h between station and charging mode.
Socket outlet	Domestic	Туре 2	Attached cabl Attached cabl		Combo 2 CHAdeMO
	▲ Up to 2.3 kW	▲ Up to 22 kW	▲ AC type 1: up to 7.4 AC type 2: up to 22		▲ 24 kW

Usage	Socket outlet access	Free access	Кеу	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.

ation	Mounting	On Wall		On Flo	or
		▲ Cabinet fixed on wall.		Cabinet	with integrated or separate pole.
	Protection	Electrical		Mechanical IP54	Mechanical IK10
		I-type: protection devices c	► 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.		Resistance to pendulum shock: mass of 5 kg, 40 cm string.
	Aspect	Stylish	Robust	Robus	t+
		▲ White resistant plastic casing.	▲ Metallic casing.		lalism features. Metallic casing, rboard protection.

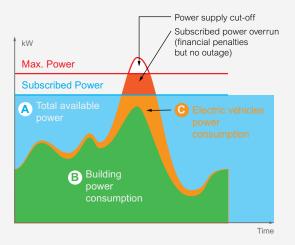
	EVlink Wallbox		EVlink Smart Wallbox	EVlink Parking	For eligible countries EVlink DC Fast Charge
	'Standard'	'Plus'	Cloud-connectable	Cloud-connectable	Cloud-connectable
Charging power (kW)	3.7 7.4 11 22	3.7 7.4 11 22	7.4 22	7.4 22	22 (AC) 24 (DC)
Charging mode 2 Mode 2 3 Mode 3 4 Mode 4	3	3	2 3	2 3	3 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	FK	FK	F K A	FA	FA
F Free access K Key lock A Authentication					
Load management	C1	C2	C1+M	C1+T+M	М
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	WF	WF	WF	WF	WF
W Wall F Floor					
Protection Elec IP IK	• 54 10	D <u>54</u> 10	• 54 10	۱ <u>54</u> 10	$F \frac{54}{10}$
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

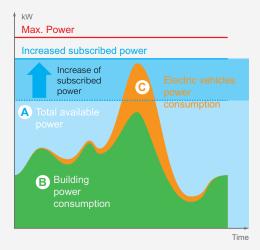
Initial situation



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.

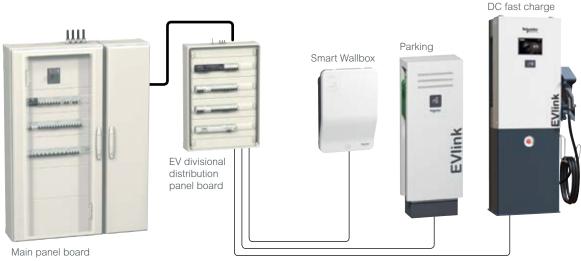
Solution without energy management

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



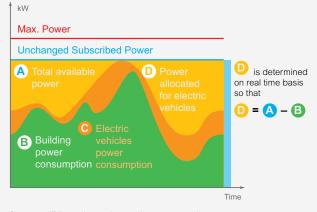
Schneider Electric solutions

Static energy management

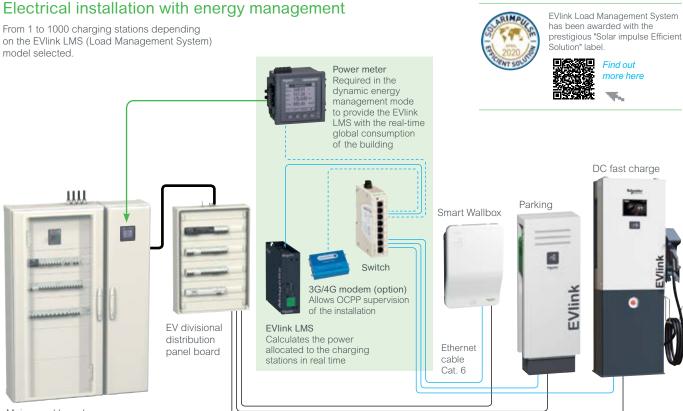
Image: With the second state of the

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.



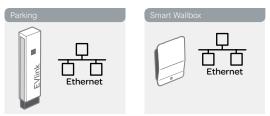
Main panel board

Power cables

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.



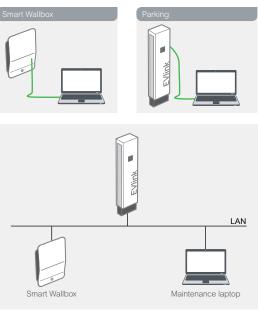




Communication for maintenance purpose

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.



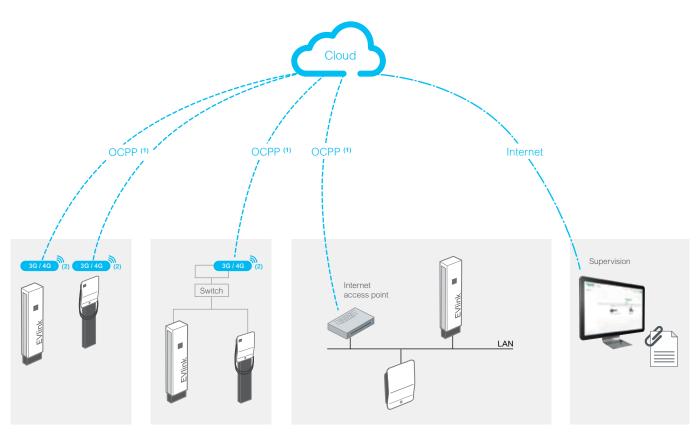


Communication for Cloud supervision

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



Wallbox 'Standard'

• Power range: 3.7 to 22 kW

• Wall-mounted or floor-standing*

cable with T1 or T2 connector

and stopping a charging session

Same features as Wallbox 'Standard'

of tripping of connection to the grid.

• T2 socket outlet (with or without shutters) or attached

· Key lock to prevent cable theft and to prevent starting

• Delayed start or temporary current limitation capability

• Outdoor or indoor use

EVlink Smart Wallbox Cloud-connectable



EVlink Parking



page 22

- Outdoor or Indoor installation
- · Wall-mounted or floor standing*
- Power Range: 7.4 kW or 22 kW with permanent derating option

page 28

- 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.

page 34

- 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.

(*) Pole as an accessory.

Wallbox 'Plus'

Additional functions:







How to use an EVlink Parking charging station



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.





· Built-in protection against residual direct current

• TIC interface with French utility meters to avoid the risk

✓ EVlink DC fast charge*



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'

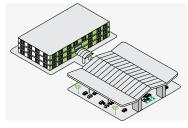
At home



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)

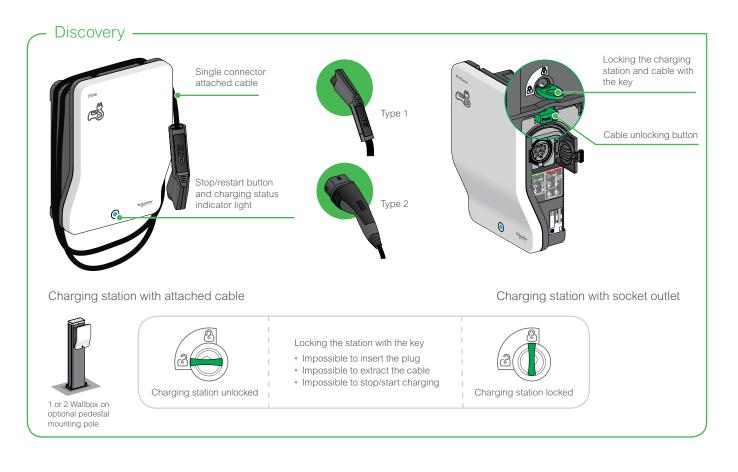
Wallbox Plus is fitted with a built-in protection against residual direct current (RDC-DD, as "Residual Direct Current Detecting Device"). This makes it possible to use an upstream type A protection against residual current (RCD) both in single-phase and three-phase, in accordance with the CENELEC HD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

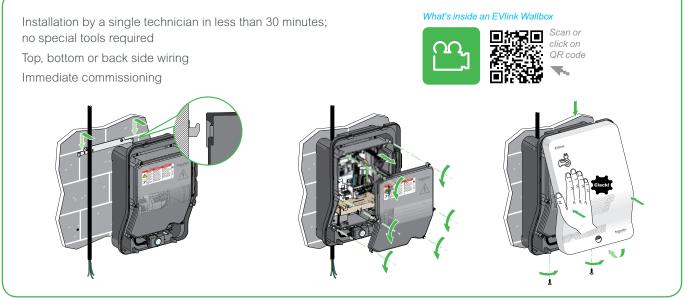
Application

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.



Easy to install -



EVlink Wallbox

Characteristics





Z.E. READY*





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 o	utlet on right side (1	- Silver-plated con	tacts	
	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	d cable 4 m, on righ	t side - Silver-plate	d 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			

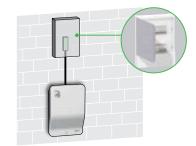
> Protections and options with Wallbox Plus

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 co	ntact		

⁽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.

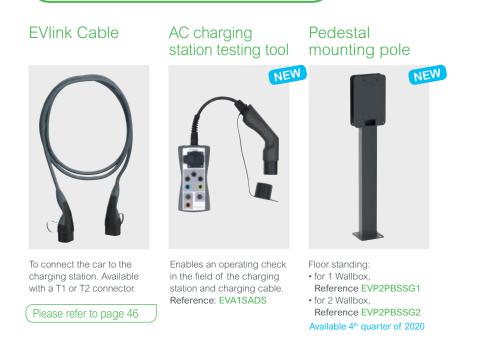


The charging station operates autonomously. It has a dedicated protective device.

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

EVlink Wallbox

Accessory references



Spare part references





	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

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

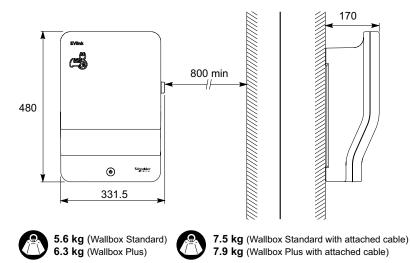
J

(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.

Practical information

> Dimensions (mm)



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.



EVlink Smart Wallbox

In short







Product QR code

'FLASH ME'







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

Fleet car at home

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
- Wait mounting of noor 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).

Condominium

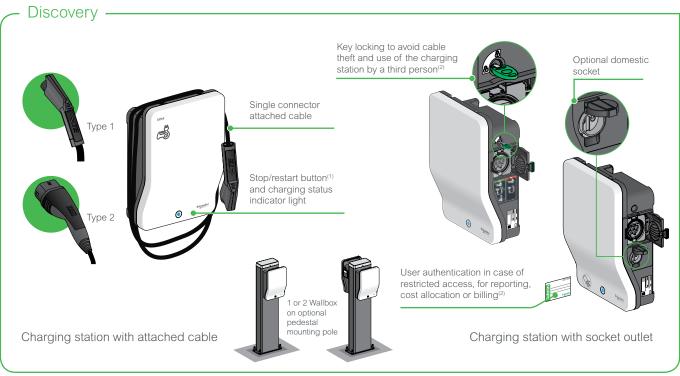


Corporate and semi-public car parks



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.



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

What's inside an EVlink Smart Wallbox

Scan or

click on

QR code

- 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

• set up access to supervision

• ...

For example, you can be maximum current values per socket • evalue the functions: load shedding • poduce maintenance reports

Electric vehicle charging solutions | 29

EVlink Smart Wallbox

Characteristics







Z.E. READY







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

Certification

EVIink 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 co	ontacts		
	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	Key	7.4 (1P) / 22 (3P)	EVB1A22P4EKI	
	and TE (domestic)	RFID ⁽²⁾	7.4 (1P) / 22 (3P)	EVB1A22P4ERI	
With attache	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 Å, 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

AC charging

station testing tool





FVlink Cable

Available with T1 or T2 connector. Please refer to page 46

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

Floor standing:

Pedestal

NEW

mounting pole

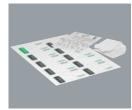
- for 1 Wallbox, Reference EVP2PBSSG1
- for 2 Wallbox,
- Reference EVP2PBSSG2 Available 4th guarter of 2020



Modem

Modems to be mounted inside the Smart Wallbox. 3G/4G Modem Reference: EVP3MM Available 3rd quarter of 2020

Pack of 10 RFID badges

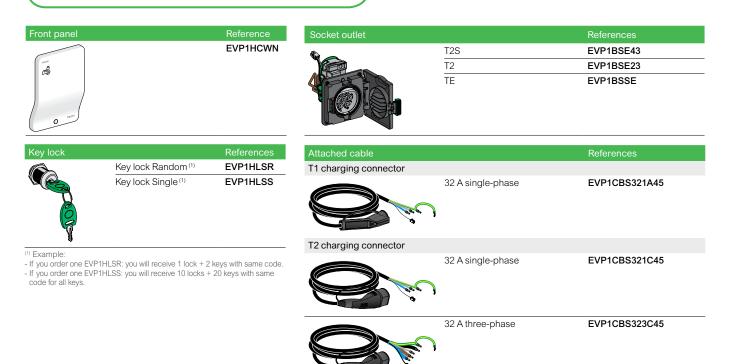


For charging stations equipped with an RFID reader. The badges are supplied blank, ready to be programmed to identify an administrator or user. Sheet of adhesive labels for badges: 1 administrator + 9 users. Reference: EVP1BNS

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



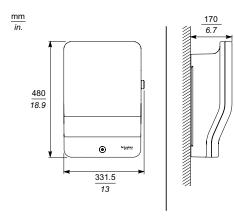
Antenna must be ordered separately: Ethernet cable 0.3 m included. To be mounted inside the Smart Wallbox Reference: EVP2MX

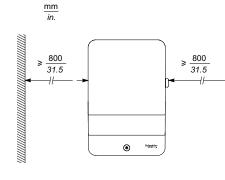


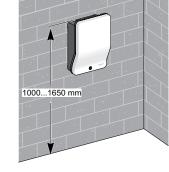
Spare part references

Practical information

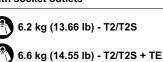
> Dimensions (mm)

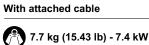


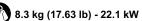












Additional information		
Charging station technical document	Language	References
Installation Guide (1) (model with socket outlet)	EN/FR/ES/IT	NHA95005
	DE/NL/NO/SV	NHA95006
Installation Guide ⁽¹⁾ (model with attached cable)	EN/FR/ES/IT	NHA95018
	DE/NL/NO/SV	NHA95021
User guide ⁽¹⁾	EN / FR/ / ES / IT	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.



EVlink Parking

In short









At home - condominium



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

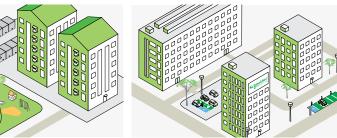
- Standalone or clustered architecture
- Connected or not to a supervision (through OCPP 1.5 or OCPP 1.6 communication protocole)
- Electrical protection devices in external cabinet or in the parking station floor base.

Easy commissioning with a laptop connected to the embedded webserver

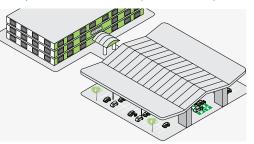
For example, you can:

- 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 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

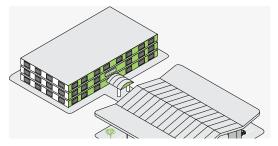
- Perform diagnosis thanks to charging station front face LEDs or through the embedded Web server
- Restore factory default settings without a computer
- Upgrade the charging station with the latest firmware and benefit from additional features

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.

 $(^{\ast})$ 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





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.





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





Schneide Electric

Without **RFID** reader

With **RFID** reader

Mode 3						
Charging station type	No. of chargepoints	Socket outlet typ Silver-plated cor		Power per socket outlet / Phases		
				7.4 kW (1P - 32 A)	22 kW (3P - 32 A)	
Plug and charge	e - without RFID					
1 (1)		T2	5	EVF2S7P02	EVF2S22P02	
		T2 with shutters	5	EVF2S7P04	EVF2S22P04	
	2	T2	39	EVF2S7P22	EVF2S22P22	
		T2 with shutters	3	EVF2S7P44	EVF2S22P44	
With RFID reade	er ⁽²⁾					
	1 (1)	T2	57	EVF2S7P02R	EVF2S22P02R	
		T2 with shutters	5	EVF2S7P04R	EVF2S22P04R	
	2	T2	89 63	EVF2S7P22R	EVF2S22P22R	
		T2 with shutters	59 59	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)	· · · · ·		
Plug and charge - without RFID reader							
	1	T2 - TF	580	EVF2S7P2F	EVF2S22P2F		
		T2 with shutters - TE	89 G	EVF2S7P4E	EVF2S22P4E		
With RFID reade	r ⁽¹⁾						
	1	T2-TF	596	EVF2S7P2FR	EVF2S22P2FR		
		T2 with shutters - TE	596	EVF2S7P4ER	EVF2S22P4ER		

(1) Includes 10 RFID badges.

> Wall mounted



EVlin

Without **RFID** reader



Mode 3

Charging station type	No. of chargepoints	Socket outlet typ Silver-plated cor		Power per socket outlet / Phases		
				7.4 kW (1P - 32 A)	22 kW (3P - 32 A)	
Plug and charge	e - without RFID					
M	1 (1)	T2	9	EVW2S7P02	EVW2S22P02	
		T2 with shutters	9	EVW2S7P04	EVW2S22P04	
	2	T2 🐨		EVW2S7P22	EVW2S22P22	
		T2 with shutters 🛛 🕄		EVW2S7P44	EVW2S22P44	
With RFID reade	er ⁽²⁾					
	1 (1)	T2	67	EVW2S7P02R	EVW2S22P02R	
		T2 with shutters	67	EVW2S7 P04R	EVW2S22P04R	
	2	T2	8989	EVW2S7P22R	EVW2S22P22R	
		T2 with shutters	59 69	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

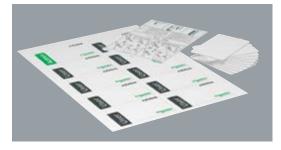
Reference: EVP3MM Available 3rd quarter of 2020

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.

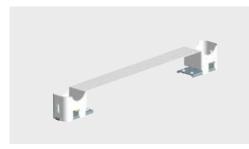
Sheet of adhesive labels for badges: 1 administrator + 9 users. Reference: EVP1BNS

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

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

Сар



Floor standing. Reference: EVP2FCG



EVIIN

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

EVlink Parking

Practical information

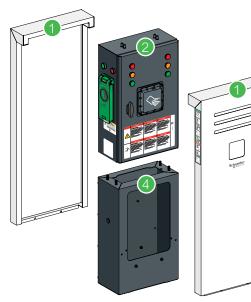
Content - Only one person required

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.

EVINA

> Package contents and weight indication

Floor-standing charging station



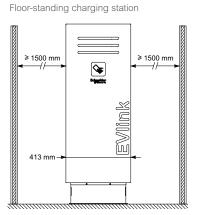
Wall-mounted charging station



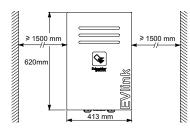
Cap
 Enclosure
 Wall base
 Floor base

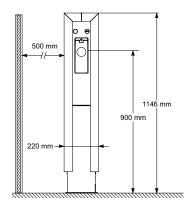
Charging	station type	Floor-standing	Wall-mounted
Package	Composition	Weight	Weight
1	Сар	17 Kg	8 Kg
2	Enclosure	20 Kg	20 Kg
3	Wall base	-	5 Kg
4	Floor base	13 Kg	-

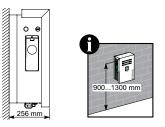
> Dimensions (mm)



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.



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.



Step 2:



Wire protection devices on the adapted rail.

Step 3:



Finish the wiring.

What's inside an EVlink Parking charging station







Insert wired protection kit in the floor base.

Step 4:



Install the prewired floor base on site.

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



FVD1S24T0H



EVD1S24THB



EVD1S24THB2



EVD1S24T0H + EVD1DB1LG



EVD1S24THB + EVD1DB2LG



EVD1S24THB2 + EVD1DB2LG

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
- REID 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 of	hargers	References	Weight (kg)				
For EVD1S24T0H, EV	/D1S24T0B	EVP1DB1LG	51				
For EVD1S24THB, EV	/D1S24THB2	EVP1DB2LG	53				

EVlink AC charging station testing tool

In short



Reference: EVA1SADS

Tool for trained electricians

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

NEW

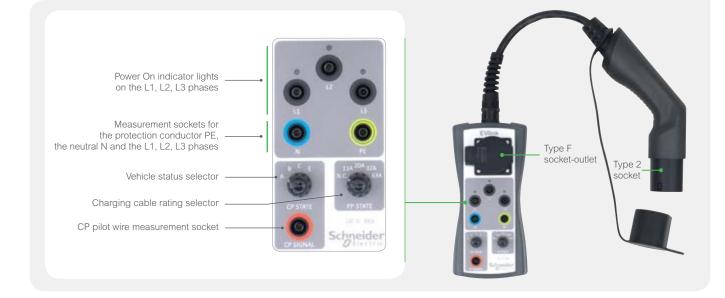
- EVlink Wallbox
- EVlink Smart Wallbox
- EVlink Parking
- EVlink City
- Any charging station complying with IEC 61851-1, by simulation of a vehicle during charging

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 \sim 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 (HxLxD): 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



- 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



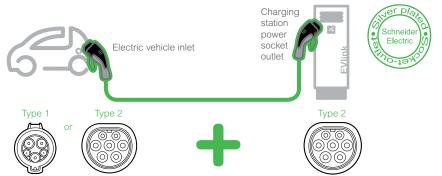
To take advantage of the charging capacity of public charging stations: by having an appropriate EVlink cable for the charging stations used, you obtain fast charging with high protection.

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)
	EVP1CNS32121	•		•	•			5
$(\bigcirc_{T_1} + \bigcirc_{T_2})$	EVP1CNL32121	•		•	•			7
	EVP1CNX32121	•		•	•			10
	EVP1CNS32122	٠		٠	•			5
	EVP1CNL32122	٠		•	•			7
	EVP1CNX32122	•		•	•			10
T2 T2	EVP1CNS32322		•	•	•	٠	•	5
	EVP1CNL32322		•	•	•	•	•	7
	EVP1CNX32322			•	•	•		10





Managing the Charging Station Energy

EVlink Load Management System

EVlink Load Management System

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





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



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Current charging sessions



Charging history of electric vehicles

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 lloT 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

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 mod (dynamic load manage current setpoint)		EVIink LMS with Dynamic & (dynamic load mana or STATIC current se	NEW			
References ⁽²⁾		HMIBSCEA53D1ESS	HMIBSCEA53D1ESM	HMIBSCEA53D1EDB	HMIBSCEA53D1EDS	3D1EDS HMIBSCEA53D1EDM HMIBSCEA53D1ED		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

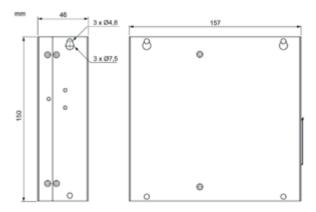
⁽²⁾ To upgrade from a current commercial reference to a higher-level one, please consult us.

Functions performed by all commercial references of EVlink LMS

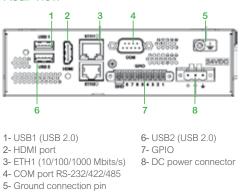


⁽¹⁾ May require specific development

Dimensions



Rear view



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.

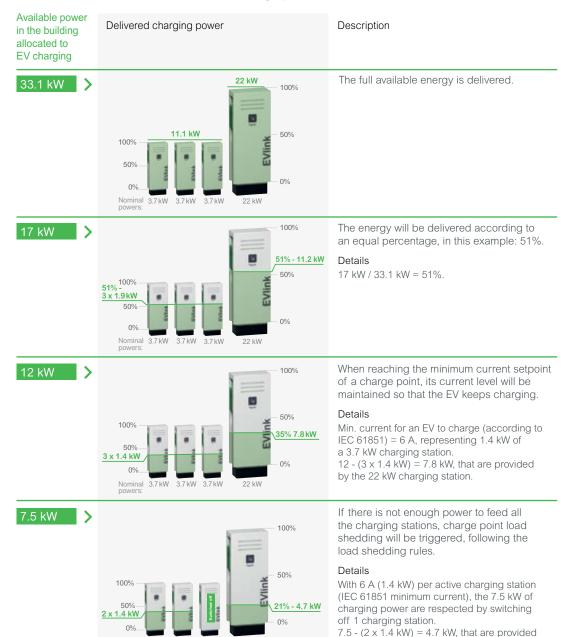
Multiple functionalities for efficient operation and trouble-free maintenance

- 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.



> 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):

Nominal powers:

• **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.

3.7 kW

37 kW

• **Based on the connection time:** the system interrupts the charging of the vehicles with the longest charging time favoring those last arrived.

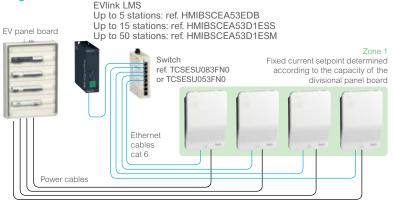
In both cases, the system rechecks and updates the situation every 15 minutes.

by the 22 kW charging station.

Typical load management architectures

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

Single-zone



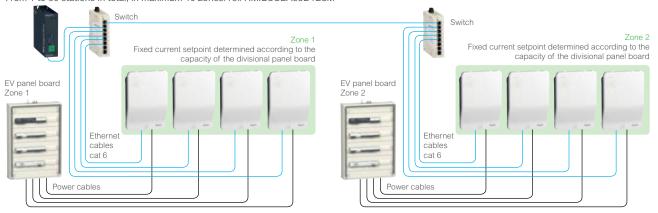
To select the right EVlink LMS commercial reference based on all available features, please check the selection table on page 51.

Multi-zone (multiple switchboards)

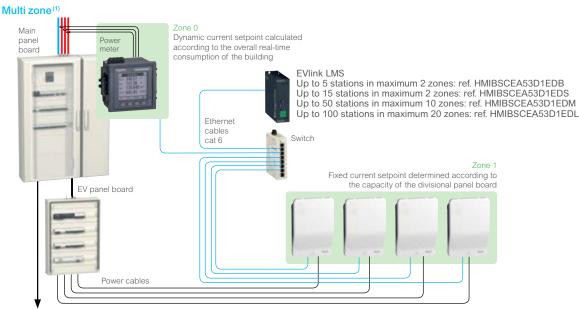
EVlink LMS

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 15 stations in total, in maximum 2 zones: ref. HMIBSCEA53D1EDS From 1 to 50 stations in total, in maximum 10 zones: ref. HMIBSCEA53D1EDS

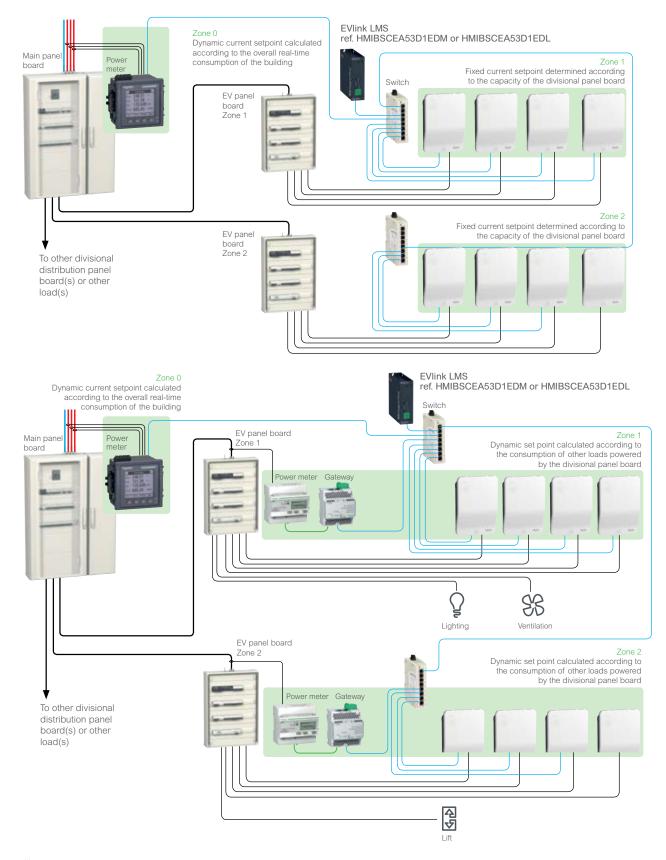


> Dynamic load management from a dynamic current setpoint



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

Multi zone⁽¹⁾



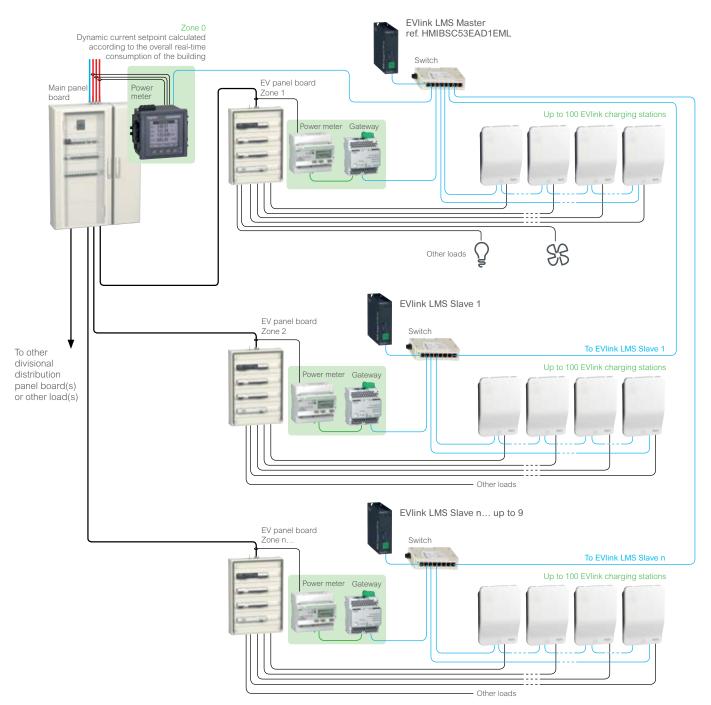
⁽¹⁾ No more than 3 cascaded zones. Otherwise, a EVlink LMS Master/Slave architecture is required (see next page)

Typical load management architectures

> EVlink LMS Master/Slave architecture

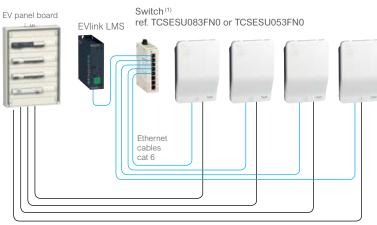
For more than 100 charging stations with dynamic or static load management

- 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.



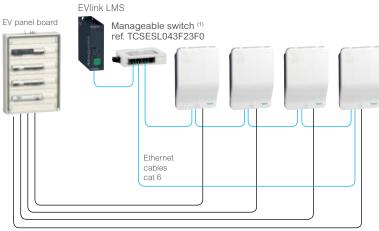
IT network possible topologies

> Star topology



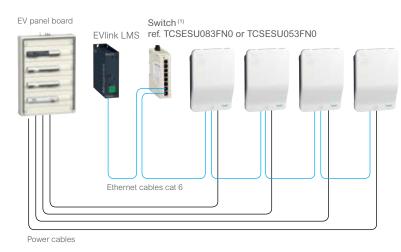
Power cables

> Ring topology



Power cables

> 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

Communication1 Ethernet pAccuracy class0.5 SDimensions96 x 96 x 72	ort
DITIENSIONS 90 X 90 X 72	mm (H x W x D)
Consumption 130 mA / 24	V DC - 65 mA / PoE 48 V DC

a cut-off device a short-circuiting block







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	
	-23 0 10 +70 0	

> Circuit breakers with embedded metering



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	



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

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



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 electricity distribution with Canalis busbar trunking system.

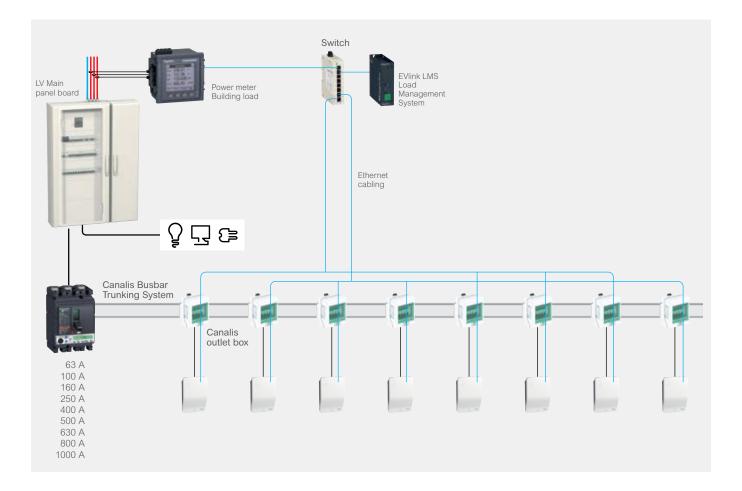
Save space and cost in your LV Switchboard, benefit from installation in half the time in comparison with cables, better reliability and personal safety. Canalis is scalable, flexible and future-proof solution for your EV installation, well adapted to indoor car parks / garages.



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 Ccircuit 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	A9F04220	EVK8KS2PB25
7.4	Protection kit Canalis KS 8 mod. 2P MCB 40 A RCD B EV		A9F04240	A9F04240	EVK8KS2PB40
11	Protection kit Canalis KS 8 mod. 4P MCB 25 A RCD B EV		A9F04420	A9F04420	EVK8KS4PB25
22	Protection kit Canalis KS 8 mod. 4P MCB 40 A RCD B EV		A9F04440	A9F04440	EVK8KS4PB40

^{*} Check availability in your country.



Solutions for Your Project

"Turnkey" project Services for contractors Services for operators

Solutions for your project



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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



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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.



List of references

Link for mySchneider App download







mySchneider app gives access to

Customer Care Center

schneider-electric.com

- On line Schneider-electric catalogues
- Green Premium information
- ...

eMobility news on the website



EVlink

EVlink Wallbox charging stations

Characteristics	References	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 4 th 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 Available 3 rd quarter of 2020	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 T 2	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 T 2	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 T 2	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 T 2	EVW2S7P22
7.4 kW – 2xT2 – 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 T 2	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 T 2	EVW2S22P22
22 kW – 2 x T 2 – 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 Available 3rd quarter of 2020	EVP3MM
3G/4G modem antenna (for EVlink Parking only)	EVP2MP

EVlink Parking charging stations

Spare parts	References
Enclosure	i de la companya de l
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 T 2	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 T 2	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
Сар	
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 ca	ble		
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

⁽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		
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







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