

EVlink Smart Wallbox

Substitution Guide

Substitute EVlink Smart Wallbox for EVlink Pro AC

JYT2871901
05/2023



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Substitution Objectives

The substitution guide aims to present the replacement of EVlink Smart Wallbox charging station by EVlink Pro AC.

The Electric Vehicle market is evolving fast, which requires the launch of new products to stay in line with the latest market needs.

- Repositioning of the offers by application in order to deliver a product dedicated to the end-user needs.
- Product development to integrate new features (Dynamic Energy Management, MID metering, Residual Current Device, MNx, RDC-DD 6 mA).

The substitution concerns all the EVlink Smart Wallbox, EVlink Wallbox, and EVlink Parking as well as the accessories and spare parts specific to these charging stations.




















This substitution guide applies only to the EVlink Smart Wallbox references.

For substitution in the residential application, please refer to Residential Application, page 10.

For substitution in the building application, please refer to Building Application, page 13.

Refer to:

- *EVlink Parking > EVlink Pro AC Metal Substitution Guide (JYT2871801)* for substitution of the EVlink Parking range
- *EVlink Wallbox > EVlink Home Substitution Guide (JYT6530900)* for substitution of the EVlink Wallbox range

	Homes		Buildings							
	 @ Home Single Family		 @ Home Multi Family		 @ Work		 @ Destination			
Current offer	Wall-box 	Smart Wallbox 	Wallbox 	Smart Wallbox 	Smart Wallbox 	Parking 		Smart Wallbox 	Parking 	
Upcoming offer	Home 	Home Smart 	Pro AC 		Pro AC 	Pro AC Metal 		Pro AC 	Pro AC Metal 	

Substitution Rules

To find out the commercialization end date for EVlink Smart Wallbox in your country, please refer to your local contact.

From the commercialization end date, the following rules will apply:

- No orders will be accepted for an EVlink Smart Wallbox for a new project.
- All orders for the EVlink Smart Wallbox range must be placed before the commercialization end date.
- For new projects, it will be compulsory to offer EVlink Pro AC to substitute EVlink Smart Wallbox.
- Spare parts will remain available for the period of the warranty (standard 2 years, possibly extended to 5 years) to replace EVlink Smart Wallbox products. Refer to the “End of life policy” chapter for more information.

Perimeter of Withdrawn Range

EVlink Smart Wallbox

The following products in the existing EVlink Smart Wallbox range will be withdrawn.



Socket outlet or connector type	Charging access	Power (kW) ⁽¹⁾ Phases	References
With socket outlet on right side - Silver plated contacts			
T2 with shutter	Key	7.4 (1P) / 22 (3P)	EVB1A22P4KI
	RFID ⁽²⁾	7.4 (1P) / 22 (3P)	EVB1A22P4RI
With attached cable 4.5 m, on right side - Silver plated contacts			
T2	Key	7.4 (1P)	EVB1A7PCKI
	RFID ⁽²⁾	7.4 (1P)	EVB1A7PCRI
T2	Key	7.4 (3P)	EVB1A22PCKI
	RFID ⁽²⁾	7.4 (3P)	EVB1A22PCRI
<p>(1) Factory setting: 16 A and all RFID ID badges validated. Can be replaced with customer setting (32 A, list of RFID badges.) using a PC via embedded Web server (see DOCA0060 Commissioning Guide).</p> <p>(2) Includes 10 RFID badges.</p>			

Accessories

Modem





3G/4G Modem
Reference: EVP3MM

Modems mounted using EVP1FKC (DIN rail mounting kit):

- Inside external cabinet
- Inside EVlink Smart Wallbox

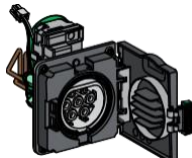


EVlink Smart Wallbox Accessories Compatible with EVlink Pro AC

The following EVlink Smart Wallbox accessories are compatible with EVlink Home Smart and EVlink Pro AC. These references will not be withdrawn:

Accessory	Photo	Reference
Pack of 10 RFID badges		EVP1BNS
EVlink cables		EVP1CNxxxxx

Spare Parts



The following spare parts in the existing EVlink Smart Wallbox range will be withdrawn.

Socket outlet		References
	T2S	EVP1BSE43
Attached cable		References
T2 charging connector		
	32 A single-phase	EVP1CBS321A45
	32 A three-phase	EVP1CBS323A45

Building Application

Technical Features Comparison Table

The following table shows the technical characteristics of old and new ranges for comparison.

	EVlink Smart Wallbox	EVlink Pro AC
		
Characteristics		
Range	EVlink	EVlink
Product name	EVlink Smart Wallbox	EVlink Pro AC
Product type	AC charging station	AC charging station
Device short name	EVB1	EVB3
Power supply	3P + N for power circuit 1P + N for power circuit	3P + N for power circuit 1P + N for power circuit
Mounting mode	Wall-mounted On a pedestal	Wall-mounted On a pedestal
(Us) rated supply voltage	380...415 V AC 50 / 60 Hz control circuit 220...240 V AC 50 / 60 Hz power circuit	380...415 V AC 50 / 60 Hz control circuit 220...240 V AC 50 / 60 Hz power circuit
Nominal output power	22 kW 32 A 380...415 V 7.4 kW 32 A 222...240 V	22 kW 380...415 V 7.4 kW 220...240 V
Maximum supply current	32 A	32 A
Maximum power	22 kW (3PH) 7.4 kW (1PH)	22 kW (3PH) 7.4 kW (1PH)
Access control system	Key Badge RFID conforming to ISO / IEC 14443 A and B Badge RFID conforming to ISO / IEC 15693	NFC / RFID Badge conforming to ISO / IEC 14443 Type A and B NFC Forum tag type 1, 2, 4, 5 reader ISO / IEC 15693 reader Reader support: <ul style="list-style-type: none"> • Mifare Ultralight • Mifare Classic 1K/4K • Mifare DESfire EV1/EV2 • Mifare Plus Cards
Complementary		
Socket number	1	1
Socket-outlet type	Right side T2 socket-outlet / Silver plated contacts	Front side T2 with shutter socket-outlet / Silver plated contacts
Earthing system	TT TN-S Compatible IT with additional isolation transformer on the power supply	TT TN-S Compatible IT on 1-phase power supply Compatible IT with additional isolation transformer on the 3-phase power supply
Digital inputs for energy digital input	Number of inputs: 6	1 for limited current 1 for postponed/suspended charge 1 for EV presence detection
Connector type	RS485 for metering Modbus 3 RJ45 for Ethernet LAN connection	RS485 for metering Modbus Bluetooth Ethernet 2 ports (1 for daisy chain)

Complementary		
Input type	Binary for power limitation closing contact Binary for delayed charging closing contact	Binary for power limitation closing contact Binary for postponed/suspended charging closing contact
Control type	1 remote control 1 multi-color illuminated push-button, function: stop/restart	Via OCPP
Local signaling	1 multi-color LED, function: status indication	1 multi-color LED, function: status indication
Communication port protocol	OCPP 1.6 Json smart charging	OCPP 1.6 Json smart charging
Embedded network connection	Ethernet 3 ports Configuration via embedded webserver	Bluetooth Ethernet 2 ports (1 for daisy chain)
Network connection in option	Wireless 3G/4G modem	Wireless 3G/4G modem Wifi
Available functions	Charge detail record (CDR) Load management Diagnosis capabilities Badge management Software updates	Charge detail record (CDR) Load management Diagnosis capabilities Badge management Software updates Postponed charge Circuit-breaker status
Operating mode	Standalone Clustered architecture	Standalone Clustered architecture

Environment		
Standards	IEC 61851-22 IEC 62196-2 IEC 61851-1 IEC 62196-1	IEC/EN 61851-1 Ed 3.0 IEC/EN 62196-1 Ed 2.0 IEC/EN 62196-2 Ed 1.0 EMC EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 RDC-DD 6mA IEC 62955 :2018
Product certifications	CE ZE Ready EV Ready EAC TR25 RCM	CE EV Ready RCM EAC TR25
IP degree of protection	IP54 conforming to IEC 60529	IP55 with T2S or attached cable conforming to IEC 60529 IP54 with domestic socket conforming to IEC 60529
IK degree of protection	IK10 conforming to IEC 62262	IK10 conforming to IEC 62262
Ambient air temperature for operation	-30...50 °C	-30...50 °C
Ambient air temperature for storage	-40...80 °C	-40...80 °C
Relative humidity	5...95 %	5...95 %
Height	480 mm	529 mm
Width	331 mm	317 mm
Depth	170 mm	152 mm
Net weight	6.2 kg with socket outlet 7.7 kg with attached cable	7.2 kg with socket outlet 10 kg with attached cable
Color	Dark grey (RAL 7016) White (RAL 9003)	Dark grey (RAL 7016) Black (RAL 9005) White (RAL 9003)

Offer sustainability		
Sustainable offer status	Green Premium product	Green Premium product
REACH Regulation	REACH Declaration	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration	Compliant EU RoHS Declaration
Mercury free	Yes	Yes

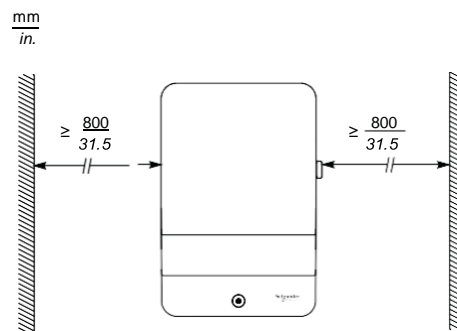
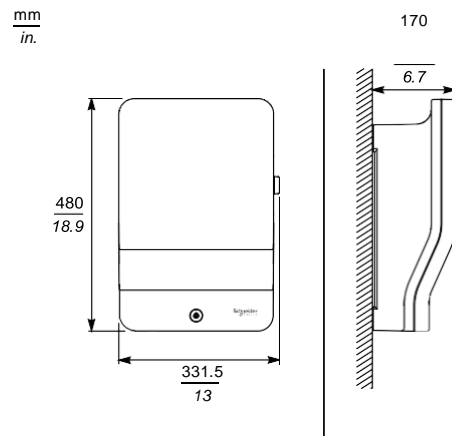
Offer sustainability		
RoHS exemption information	Yes	Yes
Environmental Disclosure	Product Environmental Profile	Product Environmental Profile
Circularity Profile	End of Life Information	End of Life Information

Substitution Table

EVlink Smart Wallbox part number	EVlink Smart Wallbox description	EVlink Pro AC part number	EVlink Pro AC description	Comments
EVB1A22P4KI EVB1A22P4RI	T2S - 7/22 kW - Key T2S - 7/22 kW - RFID	EVB3S07N40M	T2S - 1PH - 32 A - RDC-DD 6mA +MNx - MID 1PH inside	Only with RFID RFID reader can be deactivated.
		EVB3S22N40M	T2S - 3PH - 32 A - RDC-DD 6mA- MID 3PH inside	
		EVB3S22N4	T2S - 3PH - 32 A - RDC-DD 6mA- iSWNA40+MNx - no MID	
EVB1A7PAKI EVB1A7PARI	ACT1 ⁽¹⁾ - 7 kW - Key ACT1 ⁽¹⁾ - 7 kW - RFID	No ACT1 ⁽¹⁾ offer		
EVB1A7PCKI EVB1A7PCRI	ACT2 ⁽²⁾ - 7 kW - Key ACT2 ⁽²⁾ - 7 kW - RFID	EVB3S07NC0 ⁽³⁾	ACT2 - 1PH - 32 A - RDC-DD 6mA+MNx - no MID	Only with RFID RFID reader can be deactivated.
EVB1A22PCKI EVB1A22PCRI	ACT2 ⁽²⁾ - 22 kW - Key ACT2 ⁽²⁾ - 22 kW - RFID	EVB3S22NC0M	ACT2 ⁽²⁾ - 3 PH - 32 A - MNx - MID 3PH inside	Only with RFID RFID reader can be deactivated.
		EVB3S22NC0 ⁽³⁾	ACT2(2) - 3 PH - 32 A - RDC-DD 6mA +MNx - no MID	
⁽¹⁾ ACT1: attached cable with T1 plug ⁽²⁾ ACT2: attached cable with T2 plug ⁽³⁾ Available Q3 2023				

Dimensions and Weight

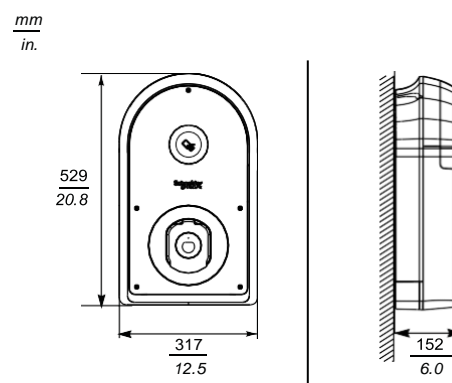
EVlink Smart Wallbox



The following table presents the weight for EVlink Smart Wallbox:

With socket outlets	With attached cable
6.2 kg - T2/T2S	7.7 kg - 7.4 kW
6.6 kg - T2/T2S + TE	8.3 kg - 22.1 kW

EVlink Pro AC



The following table presents the weight for EVlink Pro AC:



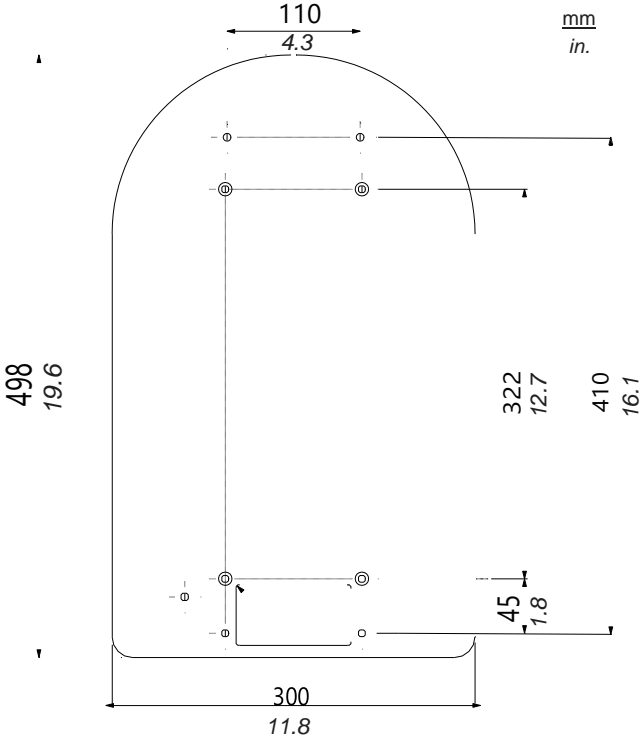
With socket outlets	With attached cable
7.2 kg	10 kg

Installation

For the installation of the EVlink Pro AC, refer to **NNZ1940301** EVlink Pro AC Installation Guide.

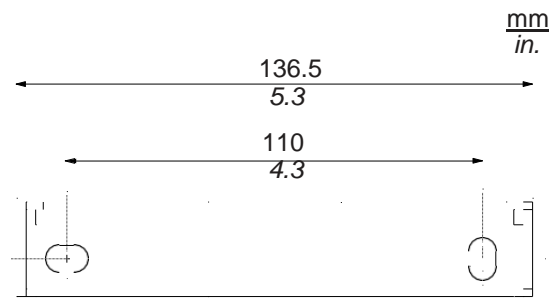
Specific Adaptation: EVlink Smart Wallbox / EVlink Pro AC on Pedestal

To replace an EVlink Smart Wallbox on pedestal with an EVlink Pro AC, check the reference of the pedestal:

Pedestal type	Pedestal reference	Action
	EVP1PBSSG	Replace the pedestal with new types as follows: <ul style="list-style-type: none"> • EVA1PBS1 for one EVlink Pro AC • EVA1PBS2 for two EVlink Pro AC
	EVP2PBSSG1 EVP2PBSSG2	The EVlink Pro AC can be fixed on the pedestal with new mounting plate(s) (reference EVA1PCS2). <ol style="list-style-type: none"> 1. Remove the mounting plate of the EVlink Smart Wallbox 2. Install the mounting plate(s) (reference EVA1PCS2) of the EVlink Pro AC to convert a pedestal for 1 charging station to a pedestal for 2 charging stations. The dimensions of the EVlink Pro AC mounting plate are as follows: 

3. Install the charging bracket of the EVlink Pro AC.

NOTE: the charging bracket of the EVlink Pro AC is delivered with the EVlink Pro AC.



4. Install the EVlink Pro AC.

The following figure shows the charging bracket and the mounting plate of the EVlink Pro AC installed on the pedestals EVP2PBSSG1 or EVP2PBSSG2.

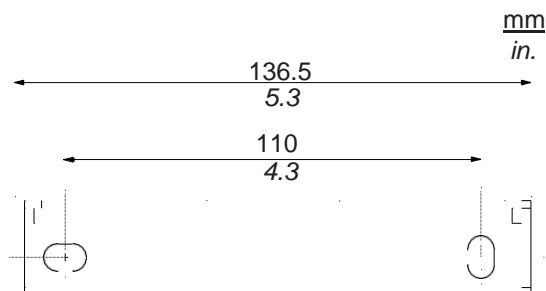


Specific Adaptation: EVlink Smart Wallbox / EVlink Pro AC on a Wall

To replace an EVlink Smart Wallbox on a wall with an EVlink Pro AC, proceed as follows:

1. Remove the charging bracket of the EVlink Smart Wallbox.
2. Drill new holes in the wall to install the charging bracket of the EVlink Pro AC. Refer to the following image for the dimensions.

NOTE: The charging bracket of the EVlink Pro AC is delivered with the EVlink Pro AC.



3. Install the EVlink Pro AC.

End of Life Policy

All EVlink products All EVlink products as stated on our Standard [Terms & Conditions](#) Of Sale is eighteen (18) months from the Delivery Date; and twelve (12) months from commercial or operational use of the Products by the Customer.

Schneider Electric will ensure a service continuity for all the withdrawn product.

Withdrawn spare parts, accessories, and charging stations will be available for 5 years from the commercialization end date.

During the warranty period, it will be possible to:

- Replace an EVlink Smart Wallbox with an EVlink Smart Wallbox, an EVlink Home Smart or an EVlink Pro AC.
- Repair a damaged EVlink Smart Wallbox with a spare part.
- Replace a damaged accessory with a new one.
- Upgrade the software to the latest version of EVlink Smart Wallbox. No new software version will be released after the commercialisation end date, except in case of major bug.

After this period:

- Schneider Electric offers the possibility to buy spare parts, accessories and products, subject to stock availability.
- If the product cannot be repaired or replaced with the same product, we offer the customer the possibility of buying an equivalent charging station from the new generation.

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