Product Environmental Profile

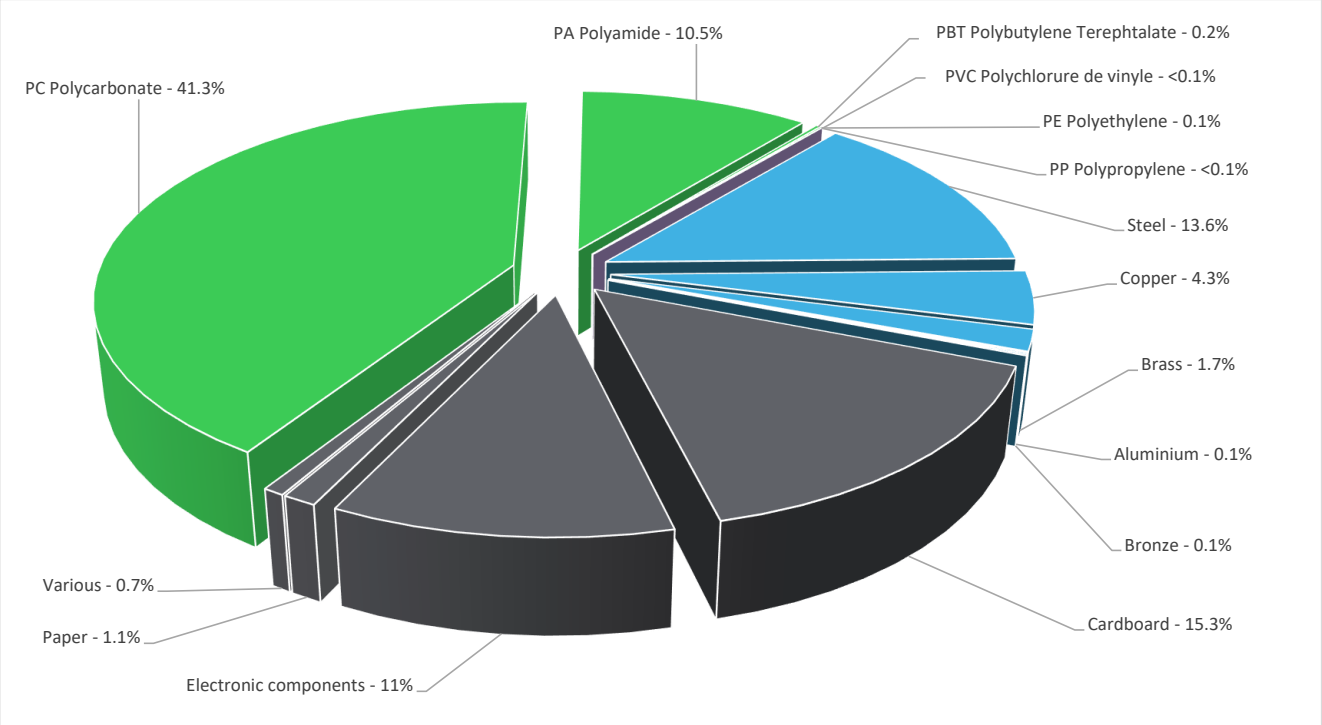
EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX

General information

Reference product	EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR
Description of the product	The EVlink Pro AC charging station provides highly reliable, flexible, and sustainable smart charging with reinforced safety to maximize uptime, ensuring a seamless user experience for drivers and installers for semi-public parking facilities in commercial and industrial buildings, corporate EV fleets and apartment blocks. Easy to install, operate, monitor, and maintain through digital capabilities and reinforced safety.
Description of the range	Single product
Functional unit	Supply 1 kW to one vehicle in accordance with the reference use scenario at the charging point
Specifications are:	Supply from 7 to 22 kW one electrical vehicle in accordance with the reference use scenario at the charging points during 10 years. Connectivity protocol : OCPP 1.6 and Modbus TCP Indoor and outdoor use Degree of protection: IP55 Mechanical strength : IK10 Bluetooth connectivity for commissioning 1 x access control system (RFID card) 2 x Ethernet ports (Daisy chain) 1 x fault residual current protection (depending on version) 1 X RDC-DD (depending on version) 1 x MID Power Meter (depending on version) 1 x Modbus RTU for load management with external Power Meter 1 x modem (option) 1 TIC module (Option)

Constituent materials

Reference product mass	9164 g	including the product, its packaging, additional elements and accessories



Plastics	52.10%
Metals	19.80%
Others	28.10%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**23%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10 years
Product category	Private or semi-public station - AC wallbox
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study
Electricity consumtion	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption
Installation elements	Ref EVB3S22N40MR does not require any installation operations.
Use scenario	The product is in active mode 30% of the time with a power use of 10W and in stand-by mode 70% of the time with a power use of 7W, for 10 years
Time representativeness	The collected data are representative of the year 2024
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and Representative of the actual type of technologies used to make the product.
Geographical representativeness	Europe

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR	Electricity Mix; Low voltage; 2020; France, FR

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

For the purposes of drafting the PEP, impact was scaled down to the supply of 1 kWh of energy.

Mandatory Indicators		EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	6.37E+02	5.96E+02	1.82E+01	1.59E+00	0*	2.04E+01	0.00E+00
Contribution to climate change-fossil	kg CO2 eq	6.36E+02	5.96E+02	1.82E+01	1.51E+00	0*	2.02E+01	0.00E+00
Contribution to climate change-biogenic	kg CO2 eq	8.15E-01	4.97E-01	0*	7.50E-02	0*	2.43E-01	0.00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	5.80E-03	5.79E-03	0*	0*	0*	1.30E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.49E-05	7.89E-05	1.60E-05	2.05E-08	0*	5.55E-08	0.00E+00
Contribution to acidification	mol H+ eq	3.83E+00	3.71E+00	7.47E-02	4.63E-03	0*	3.42E-02	0.00E+00
Contribution to eutrophication, freshwater	kg P eq	4.41E-03	1.89E-03	2.12E-06	3.62E-05	0*	2.48E-03	0.00E+00
Contribution to eutrophication, marine	kg N eq	4.55E-01	4.10E-01	3.40E-02	2.01E-03	0*	8.64E-03	0.00E+00
Contribution to eutrophication, terrestrial	mol N eq	4.83E+00	4.35E+00	3.69E-01	1.40E-02	0*	9.89E-02	0.00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.60E+00	1.44E+00	1.23E-01	3.21E-03	0*	2.69E-02	0.00E+00
Contribution to resource use, minerals and metals	kg Sb eq	5.51E-02	5.50E-02	0*	0*	0*	7.98E-05	0.00E+00
Contribution to resource use, fossils	MJ	7.61E+03	7.04E+03	2.25E+02	1.57E+01	0*	3.26E+02	0.00E+00
Contribution to water use	m3 eq	1.56E+02	1.51E+02	9.19E-01	1.23E-01	0*	4.70E+00	0.00E+00

Inventory flows Indicators		EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	2.57E+02	2.53E+02	0*	2.06E+00	0*	2.01E+00	0.00E+00
Contribution to renewable primary energy used as raw material	MJ	3.81E+01	3.81E+01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	2.95E+02	2.91E+02	0*	2.06E+00	0*	2.01E+00	0.00E+00
Contribution to non renewable primary energy used as energy	MJ	7.42E+03	6.85E+03	2.25E+02	1.57E+01	0*	3.26E+02	0.00E+00
Contribution to non renewable primary energy used as raw material	MJ	1.91E+02	1.91E+02	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	7.61E+03	7.04E+03	2.25E+02	1.57E+01	0*	3.26E+02	0.00E+00
Contribution to use of secondary material	kg	6.75E-04	6.75E-04	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of fresh water	m^3	3.64E+00	3.51E+00	2.14E-02	2.86E-03	0*	1.10E-01	0.00E+00
Contribution to hazardous waste disposed	kg	1.13E+03	1.13E+03	0*	0*	0*	8.16E-01	0.00E+00
Contribution to non hazardous waste disposed	kg	1.89E+02	1.83E+02	0*	6.80E-01	0*	5.50E+00	0.00E+00
Contribution to radioactive waste disposed	kg	7.09E-02	6.70E-02	3.60E-03	8.38E-05	0*	2.10E-04	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.00E+00	2.18E-01	0*	2.05E-03	0*	1.78E+00	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	8.45E-02	2.32E-03	0*	6.46E-02	0*	1.76E-02	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	4.22E-01

** The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)*

Mandatory Indicators		EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg P eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		EVlink eWallbox AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m^3	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	ENVPEP2203022_V2-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0018-ed1.1-EN-2024 01 31
Date of issue	12-2024	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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