

Product Environmental Profile

EVlink Pro AC Metal 22kwT2S MIDnBEVMNX





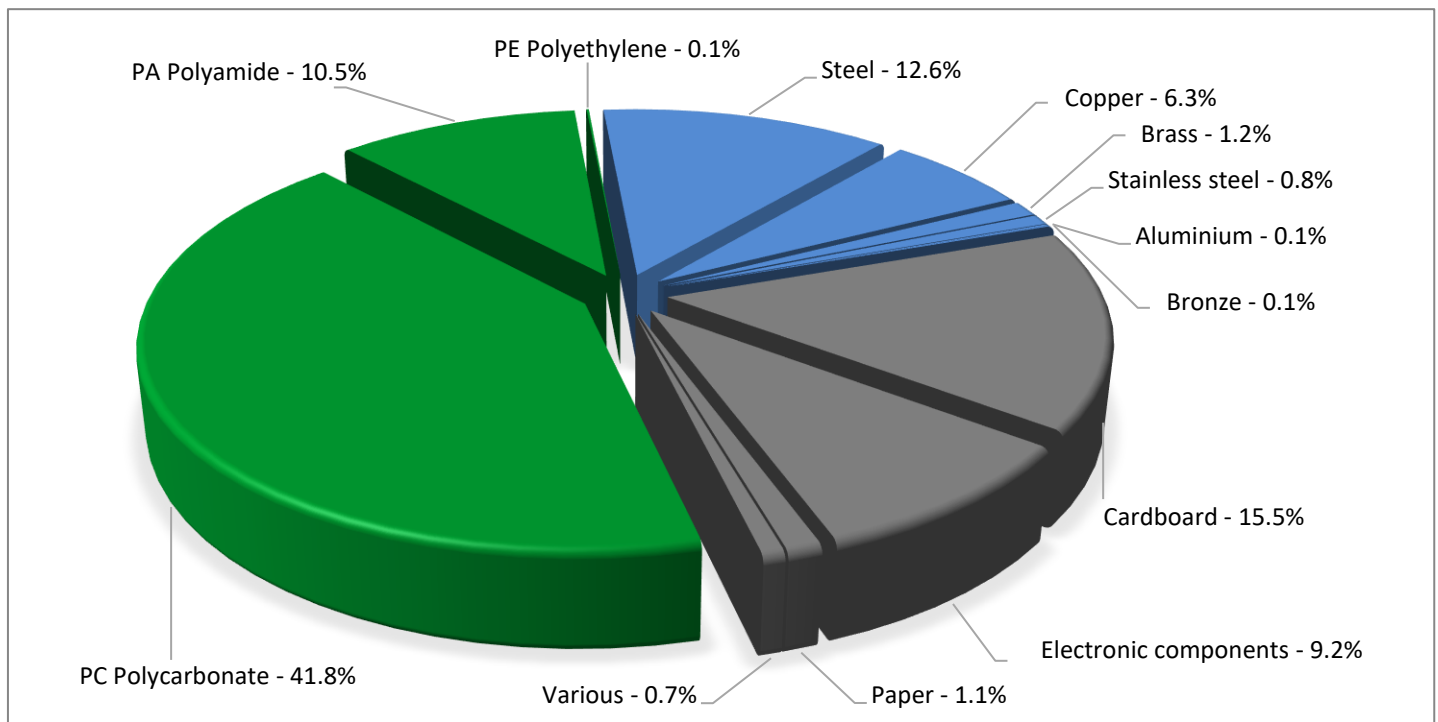
General information

Representative product	EVlink Pro AC Metal 22kW2S MIDnBEVMNX - EVB3S22N40MR
Description of the product	Electric Vehicle link Pro AC Charging station is designed to enable highly reliable, flexible and sustainable smart charging for buildings. It ensures a seamless user experience for EV installers, operators and drivers, and give the power consumption value of the electric vehicle when requested.
Functional unit	To re-charge a electric vehicle with 22kW power, in a robust enclosure, with interactivity, connectivity and scalability in mind, and measure EV power consumption thanks to MID meter embedded during 10 years in accordance with the relevant standards - IEC/EN 61851-1 - IEC 61851-21-2 - IEC 61439-7 - IP55 conforming to IEC 60529 - IK10 selon IEC 62262



Constituent materials

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



Plastics	52.4%
Metals	21.1%
Others	26.5%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate- BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The EVlink Pro AC Metal 22kwT2S MIDnBEVMNX presents the following relevant environmental aspects

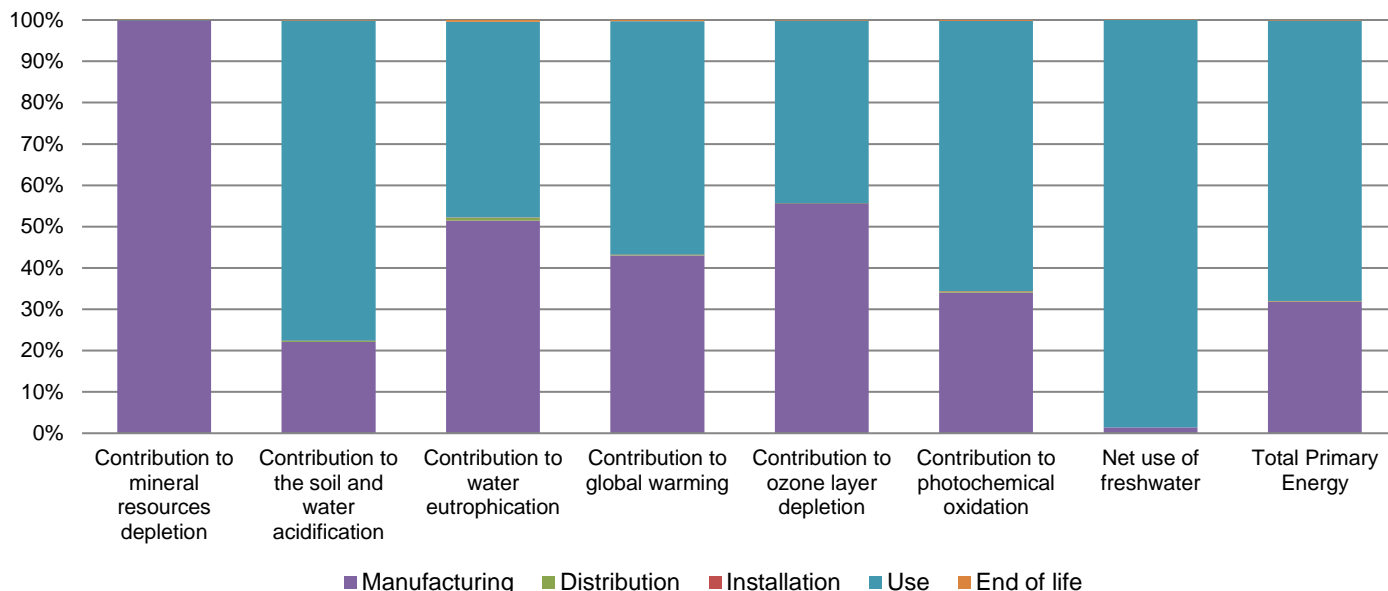
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1480 g, consisting of 100% cardboard
Installation	Ref EVB3S22N40MR does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains batteries (2.5g), electronic card (555.35g), including electrolyte capacitors (25g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 78% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).</p>



Environmental impacts

Reference life time	10 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	No special components needed			
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			
Geographical representativeness	Europe			
Technological representativeness	Electric Vehicle link Pro AC Charging station is designed to enable highly reliable, flexible and sustainable smart charging for buildings. It ensures a seamless user experience for EV installers, operators and drivers, and give the power consumption value of the electric vehicle when requested. The estimated full charging time of an electric vehicle is 6h30 for AC charging station for 10 years.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: France	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; EU-27

Compulsory indicators		EVlink Pro AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.23E-02	3.23E-02	0*	0*	2.80E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.71E+00	3.78E-01	5.40E-03	3.34E-04	1.33E+00	2.46E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.71E-01	8.80E-02	1.24E-03	8.11E-05	8.11E-02	7.61E-04
Contribution to global warming	kg CO ₂ eq	5.72E+02	2.46E+02	1.18E+00	8.01E-02	3.23E+02	1.66E+00
Contribution to ozone layer depletion	kg CFC11 eq	4.67E-05	2.60E-05	0*	0*	2.06E-05	7.16E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.12E-01	3.80E-02	3.85E-04	2.49E-05	7.31E-02	2.50E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.19E+03	1.71E+01	0*	0*	1.17E+03	0*
Total Primary Energy	MJ	9.48E+03	3.01E+03	1.67E+01	1.05E+00	6.44E+03	1.19E+01



Optional indicators		EVlink Pro AC Metal 22kwT2S MIDnBEVMNX - EVB3S22N40MR					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.10E+03	2.41E+03	1.66E+01	1.04E+00	3.67E+03	9.57E+00
Contribution to air pollution	m³	3.72E+04	2.32E+04	5.03E+01	0*	1.38E+04	8.47E+01
Contribution to water pollution	m³	5.98E+04	4.61E+04	1.94E+02	1.21E+01	1.34E+04	1.14E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.62E-01	1.62E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	9.31E+02	1.09E+02	0*	0*	8.22E+02	0*
Total use of non-renewable primary energy resources	MJ	8.55E+03	2.91E+03	1.67E+01	1.04E+00	5.61E+03	1.19E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.02E+02	7.91E+01	0*	0*	8.22E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.96E+01	2.96E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.38E+03	2.73E+03	1.67E+01	1.04E+00	5.61E+03	1.19E+01
Use of non renewable primary energy resources used as raw material	MJ	1.73E+02	1.73E+02	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	7.20E+02	7.10E+02	0*	0*	1.69E-01	9.83E+00
Non hazardous waste disposed	kg	1.31E+03	1.08E+02	0*	0*	1.20E+03	0*
Radioactive waste disposed	kg	8.43E-01	4.52E-02	0*	0*	7.98E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.24E+00	8.09E-01	0*	1.47E+00	0*	5.96E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.95E-01	0*	0*	0*	0*	2.95E-01
Exported Energy	MJ	4.68E-03	4.40E-04	0*	4.24E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2022-01 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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 :	SCHN-00797-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	05/2022	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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