

Product Environmental Profile

EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdeMO outputs





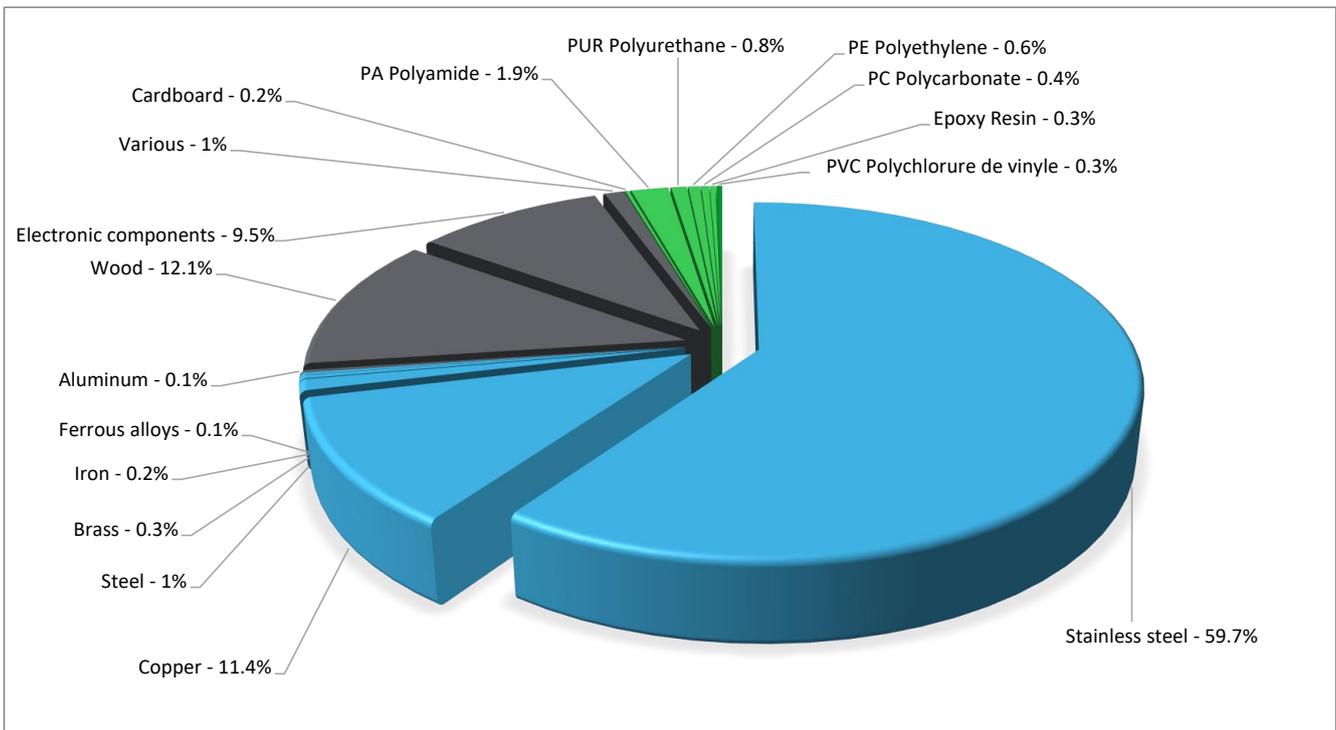
General information

Reference product	EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdEMO outputs - EVD1S180THB
Description of the product	The EVlink Pro DC 180kW charging station is designed as one new generation charging station for electric vehicle. Its function is to allow the full charging of an electric vehicle within 1hr. The charging type is fast. The charging mode is mode 4. The elements used for connecting the station to the mains grid and to the monitoring and communication network are excluded.
Functional unit	Supply 1 kW to one vehicle in accordance with the reference use scenario at the charging point. The reference use scenario includes the charging through DC in public stations during 10 years. - RED - IEC61851-1 - IEC61439-7 - EN301489 - EN301908 - DC meter - 1 or 2 attached cables with a mobile CCS2 or CHAdEMO plug



Constituent materials

Reference product mass	628610 g including the product, its packaging and additional elements and accessories
------------------------	---



Plastics	4.40%
Metals	72.80%
Others	22.80%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <https://www.se.com/ww/en/work/support/green-premium/>

Additional environmental information

End Of Life	Recyclability potential:	83%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
--------------------	--------------------------	------------	--

Environmental impacts

Reference service life time	10 years			
Installation elements	No special components needed			
Use scenario	The product is in active mode 44% of the time with a power use of 5113W, in stand-by mode 55% of the time with a power use of 60W and in off model 1% of the time for 10 years			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production			
Geographical representativeness	Marketing is in Europe, manufacturing site is in China			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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

Mandatory Indicators		EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdEMO outputs - EVD1S180THB							
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits	
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]	
Contribution to climate change	kg CO2 eq	4.60E-01	4.23E-02	9.06E-04	3.36E-04	4.10E-01	6.98E-03	-3.05E-02	
Contribution to climate change-fossil	kg CO2 eq	4.59E-01	4.18E-02	9.06E-04	5.57E-04	4.09E-01	6.87E-03	-2.91E-02	
Contribution to climate change-biogenic	kg CO2 eq	9.45E-04	5.14E-04	0*	0*	5.47E-04	1.06E-04	-1.41E-03	
Contribution to climate change-land use and land use change	kg CO2 eq	1.41E-09	1.34E-10	0*	0*	0*	1.27E-09	0.00E+00	
Contribution to ozone depletion	kg CFC-11 eq	9.92E-09	7.27E-09	8.00E-10	1.28E-12	1.75E-09	9.58E-11	-9.01E-09	
Contribution to acidification	mol H+ eq	2.76E-03	3.77E-04	3.94E-06	3.46E-07	2.34E-03	4.42E-05	-1.26E-03	
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	3.98E-06	1.27E-07	0*	2.35E-09	1.12E-06	2.72E-06	-6.42E-08	
Contribution to eutrophication marine	kg N eq	3.23E-04	3.96E-05	1.81E-06	1.47E-07	2.66E-04	1.57E-05	-2.54E-05	
Contribution to eutrophication, terrestrial	mol N eq	4.50E-03	4.29E-04	1.96E-05	1.44E-06	3.99E-03	6.14E-05	-2.94E-04	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.02E-03	1.42E-04	6.43E-06	5.04E-07	8.53E-04	2.02E-05	-1.66E-04	
Contribution to resource use, minerals and metals	kg Sb eq	7.57E-06	7.47E-06	0*	0*	2.97E-08	7.65E-08	-1.14E-05	
Contribution to resource use, fossils	MJ	1.14E+01	5.46E-01	1.10E-02	0*	1.04E+01	4.33E-01	-4.53E-01	
Contribution to water use	m3 eq	2.31E-01	1.98E-02	4.60E-05	0*	1.45E-02	1.96E-01	-6.21E-02	

Additional indicators for the French regulation are available as well

Inventory flows Indicators			EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdEMO outputs - EVD1S180THB					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.03E+00	1.86E-02	0*	1.66E-03	2.01E+00	2.67E-03	-3.08E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.96E-03	4.96E-03	0*	0*	0*	0*	-2.26E-03
Contribution to total use of renewable primary energy resources	MJ	2.03E+00	2.36E-02	0*	1.66E-03	2.01E+00	2.67E-03	-3.31E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.14E+01	5.34E-01	1.10E-02	0*	1.04E+01	4.33E-01	-4.53E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.19E-02	1.19E-02	0*	0*	0*	0*	7.40E-07
Contribution to total use of non-renewable primary energy resources	MJ	1.14E+01	5.46E-01	1.10E-02	0*	1.04E+01	4.33E-01	-4.53E-01
Contribution to use of secondary material	kg	1.11E-06	1.11E-06	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 freshwater	m³	5.92E-03	4.60E-04	1.07E-06	0*	3.38E-04	5.12E-03	-1.45E-03
Contribution to hazardous waste disposed	kg	2.54E-01	2.43E-01	0*	0*	7.66E-03	2.94E-03	-1.01E+00
Contribution to non hazardous waste disposed	kg	6.93E-02	9.84E-03	0*	3.46E-04	5.90E-02	1.24E-04	-6.32E-03
Contribution to radioactive waste disposed	kg	1.71E-05	4.52E-06	1.80E-07	1.50E-08	1.23E-05	2.81E-08	-3.68E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.48E-03	0*	0*	1.19E-04	0*	2.36E-03	0.00E+00
Contribution to materials for energy recovery	kg	5.99E-12	5.99E-12	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	2.71E-04	2.55E-05	0*	2.46E-04	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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 :	ENVPEP2304005_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°		Supplemented by	PSR-0018-ed1-EN-2021 09 13
Date of issue	2023/09/06	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14021 : 2016</i>			
Internal	X	External	
<i>The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)</i>			
<i>PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »</i>			

Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier
 CS 30323
 F- 92500 Rueil Malmaison Cedex
 RCS Nanterre 954 503 439
 Capital social 896 313 776 €

www.se.com

SCHN-00963-V01.01-EN

Published by Schneider Electric

©2023 - Schneider Electric – All rights reserved

2023/09/06

