Product Environmental Profile

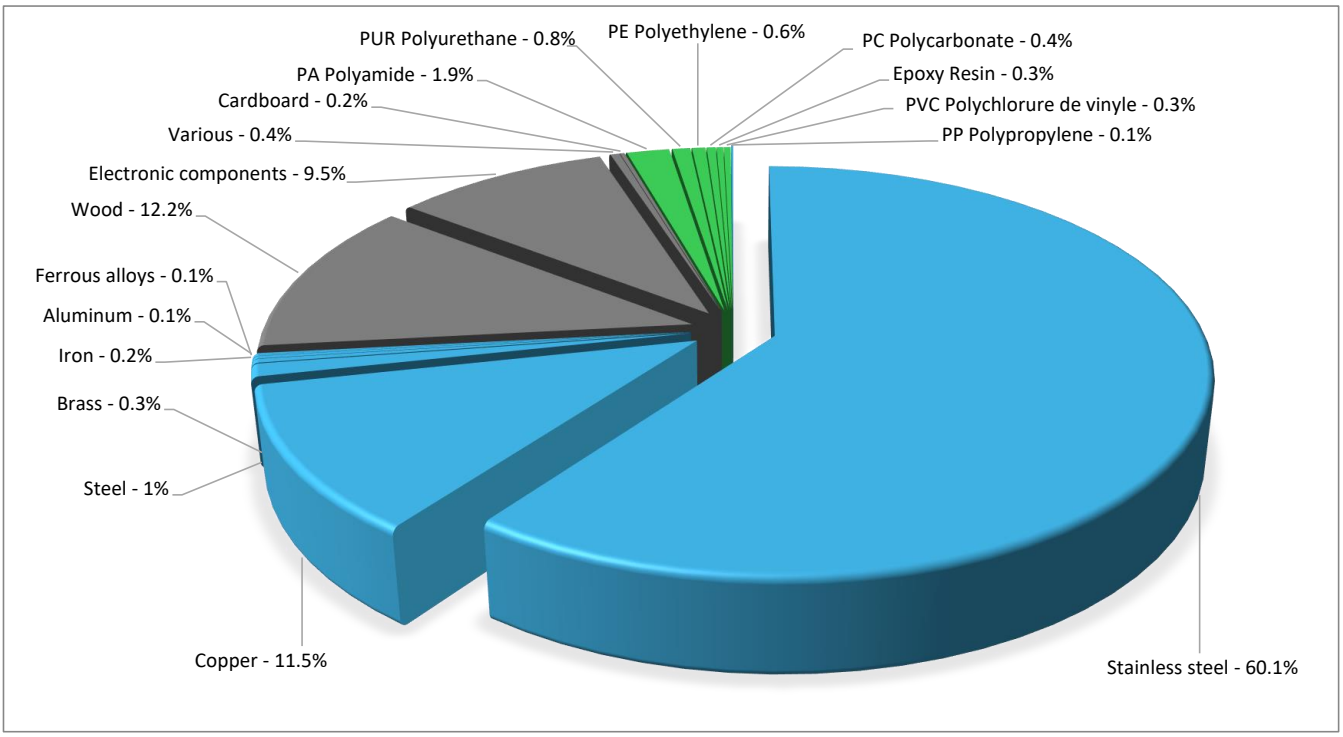
EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdeMO outputs

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 charing 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.
Description of the range	Single product
Functional unit	Supply 1 kWh to one vehicle in accordance with the reference use scenario at the charging point
Specifications are:	Supply 1 kWh 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



Metals	73.3%
Others	22.3%
Plastics	4.4%

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:	**76%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	10 years
Product category	Public station on a base - Public station on a base and running on direct current (DC)
Installation elements	The product does not require any installation operations,the references covered in the PEP don't require any installation operations, or the components, process and energy required to install the product have been excluded since they felt out of the cut-off rules provided in PCRed4 and PSR.
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
Time representativeness	The collected data are representative of the year 2023
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 représentaive of the actual type of technologies used to make the product.
Geographical representativeness	Marketing is in Europe, manufacturing site is in China

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2018; China, CN	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27

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.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 (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
climate change-Total	kg CO2 eq	3.09E-02	5.52E-03	6.44E-05	0*	2.42E-02	1.11E-03	-1.34E-03
climate change-fossil	kg CO2 eq	3.07E-02	5.45E-03	6.44E-05	0*	2.41E-02	1.07E-03	-1.33E-03
climate change-biogenic	kg CO2 eq	1.40E-04	7.26E-05	0*	0*	3.23E-05	3.50E-05	-1.23E-05
climate change-land use and land use change	kg CO2 eq	2.06E-10	4.30E-11	0*	0*	0*	1.63E-10	0.00E+00
ozone depletion	kg CFC-11 eq	1.07E-09	9.64E-10	0*	0*	1.03E-10	5.47E-12	-4.09E-10
acidification	mol H+ eq	1.87E-04	4.41E-05	4.30E-07	0*	1.38E-04	4.08E-06	-1.46E-05
eutrophication, freshwater	kg $(PO4)^{3-}$ eq	4.40E-07	6.46E-08	0*	0*	6.62E-08	3.09E-07	-3.91E-09
eutrophication marine	kg N eq	2.06E-05	3.92E-06	2.03E-07	0*	1.57E-05	7.97E-07	-7.99E-07
eutrophication, terrestrial	mol N eq	2.89E-04	4.24E-05	2.22E-06	0*	2.36E-04	9.00E-06	-9.01E-06
photochemical ozone formation	kg COVNM eq	6.88E-05	1.51E-05	5.64E-07	0*	5.03E-05	2.78E-06	-3.81E-06
resource use, minerals and metals	kg Sb eq	9.90E-07	9.78E-07	0*	0*	1.75E-09	9.80E-09	-2.42E-07
resource use, fossils	MJ	7.52E-01	7.94E-02	8.97E-04	0*	6.16E-01	5.57E-02	-1.87E-02
water use	m3 eq	4.08E-03	2.68E-03	0*	0*	8.56E-04	5.41E-04	-9.11E-04

Inventory flows Indicators		EVlink Pro DC 180 kW, 1x Combo CCS Type 2 + 1x CHAdeMO outputs - EVD1S180THB						
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
use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.22E-01	2.80E-03	0*	0*	1.18E-01	4.65E-04	-3.15E-04
use of renewable primary energy resources used as raw material	MJ	6.61E-04	6.61E-04	0*	0*	0*	0*	-3.09E-04
total use of renewable primary energy resources	MJ	1.22E-01	3.46E-03	0*	0*	1.18E-01	4.65E-04	-6.24E-04
use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.51E-01	7.78E-02	8.97E-04	0*	6.16E-01	5.57E-02	-1.87E-02
use of non renewable primary energy resources used as raw material	MJ	1.56E-03	1.56E-03	0*	0*	0*	0*	9.49E-08
total use of non-renewable primary energy resources	MJ	7.52E-01	7.94E-02	8.97E-04	0*	6.16E-01	5.57E-02	-1.87E-02
use of secondary material	kg	1.43E-07	1.43E-07	0*	0*	0*	0*	0.00E+00
use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
net use of freshwater	m^3	9.50E-05	6.25E-05	0*	0*	1.99E-05	1.26E-05	-2.12E-05
hazardous waste disposed	kg	3.30E-02	3.25E-02	0*	0*	4.52E-04	3.98E-05	-1.88E-02
non hazardous waste disposed	kg	4.85E-03	1.30E-03	2.26E-06	0*	3.48E-03	7.03E-05	-4.46E-04
radioactive waste disposed	kg	1.33E-06	5.97E-07	1.61E-09	0*	7.28E-07	5.18E-09	-2.20E-07
components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
materials for recycling	kg	3.65E-04	4.63E-05	0*	0*	0*	3.18E-04	0.00E+00
materials for energy recovery	kg	7.67E-13	7.67E-13	0*	0*	0*	0*	0.00E+00
exported energy	MJ	2.49E-05	5.11E-06	0*	0*	0*	1.98E-05	0.00E+00

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

biogenic carbon content of the product	kg of C	0.00E+00
biogenic carbon content of the associated packaging	kg of C	0*

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

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

By optimizing product size, applying low environmental impact material and reducing the energy consumption of products during using stage could Improve product environmental performance

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.

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Verifier accreditation N°	VH51	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	06-2024	*Validity period*	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain) *PEPs are compliant with EN 50693:2019.* *The components of the present PEP may not be compared with components from any other program.* *Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"*			

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