Product Environmental Profile

EVlink Pro DC 720,DC charger 720 kW,power cabinet,Australia

EVlink Pro DC 720

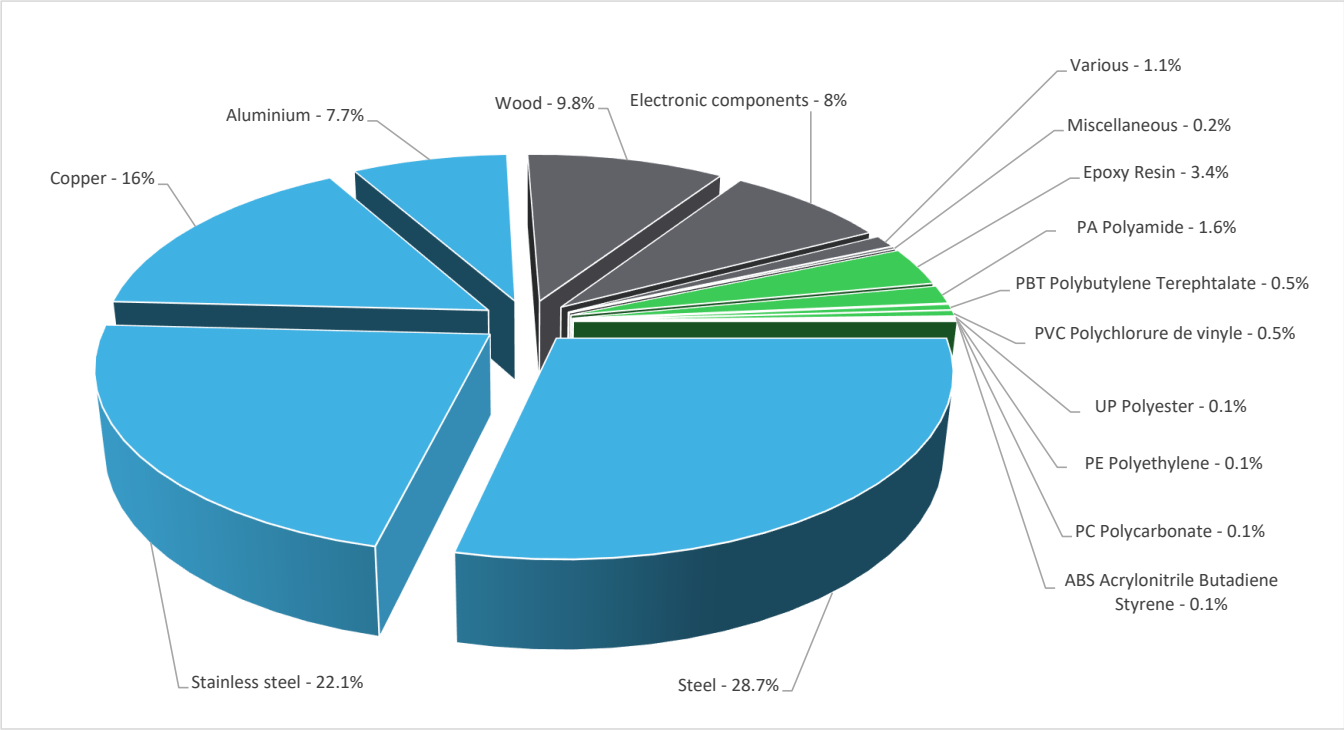


General information

Reference product	EVlink Pro DC 720,DC charger 720 kW,power cabinet,Australia - EVD1S720-AN
Description of the product	The EVlink Pro DC 720 charging station is designed to allow private persons or public to have a charging point dedicated to their electric vehicle. Its function unit is to allow the charging of an electrical vehicle 16 hours a day for 10 years.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology. The products of the range are: EVlink Pro DC 720
Functional unit	Supply 1 kW 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: EN IEC 61851-1:2019 EN 61851-23:2014 EN 61851-24:2014 EN IEC 62311:2020 EN 62479:2010 EN IEC 61851-21-2:2021 EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019

Constituent materials

Reference product mass	1364000 g	including the product, its packaging, additional elements and accessories



Plastics	6.4%
Metals	74.5%
Others	19.1%

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:	**81%**	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	Public station on a base - Public station on a base and running on direct current (DC)
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	The product must be installed according to the specifications and requirements as defined by Schneider Electric. The installation must be done by certified personnel only (according to local standards).
Use scenario	The product is in active mode 20% of the time with a power use of 33926.7W; in stand-by mode 20% of the time with a power use of 51.02W, in sleep mode 60% of the time with a power use of 33.96W during 10 years.
Time representativeness	The collected data are representative of the year 2025
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	**Final assembly site**	**Use phase**		**End-of-life**
	China	Australia		Australia
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; Australia, AU	Global, European and French datasets are used.

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 Pro DC 720,DC charger 720 kW,power cabinet,Australia - EVD1S720-AN**						
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	2.47E-01	6.77E-04	3.62E-05	0*	2.46E-01	1.37E-04	-3.49E-04
Contribution to climate change-fossil	kg CO2 eq	2.47E-01	6.50E-04	3.62E-05	0*	2.46E-01	1.31E-04	-3.46E-04
Contribution to climate change-biogenic	kg CO2 eq	1.98E-04	2.61E-05	0*	1.54E-05	1.50E-04	6.14E-06	-2.33E-06
Contribution to climate change-land use and land use change	kg CO2 eq	1.77E-10	1.40E-10	0*	0*	0*	3.67E-11	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.37E-09	1.09E-10	3.20E-11	0*	1.22E-09	3.83E-12	-7.26E-11
Contribution to acidification	mol H+ eq	1.61E-03	7.52E-06	0*	0*	1.60E-03	5.89E-07	-4.47E-06
Contribution to eutrophication, freshwater	kg P eq	6.34E-09	3.01E-09	4.24E-12	3.66E-11	2.69E-09	6.07E-10	-9.30E-10
Contribution to eutrophication, marine	kg N eq	1.78E-04	5.45E-07	7.24E-08	0*	1.78E-04	1.13E-07	-2.16E-07
Contribution to eutrophication, terrestrial	mol N eq	2.03E-03	6.14E-06	7.84E-07	0*	2.02E-03	1.29E-06	-2.45E-06
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.96E-04	2.18E-06	2.57E-07	0*	5.93E-04	3.52E-07	-9.99E-07
Contribution to resource use, minerals and metals	kg Sb eq	1.54E-07	1.14E-07	0*	0*	3.99E-08	0*	-7.49E-08
Contribution to resource use, fossils	MJ	3.82E+00	1.28E-02	4.51E-04	0*	3.81E+00	1.63E-03	-5.98E-03
Contribution to water use	m3 eq	1.66E-02	3.73E-04	1.84E-06	0*	1.62E-02	1.86E-05	-2.39E-04

Inventory flows Indicators		**EVlink Pro DC 720,DC charger 720 kW,power cabinet,Australia - EVD1S720-AN**						
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	4.41E-01	3.13E-04	0*	4.44E-05	4.40E-01	9.59E-05	-1.65E-04
Contribution to renewable primary energy used as raw material	MJ	3.28E-04	3.28E-04	0*	0*	0*	0*	-5.82E-05
Contribution to total renewable primary energy	MJ	4.41E-01	6.41E-04	0*	4.44E-05	4.40E-01	9.59E-05	-2.23E-04
Contribution to non renewable primary energy used as energy	MJ	3.82E+00	1.23E-02	4.51E-04	0*	3.81E+00	1.63E-03	-5.98E-03
Contribution to non renewable primary energy used as raw material	MJ	4.42E-04	4.42E-04	0*	0*	0*	0*	-1.70E-06
Contribution to total non renewable primary energy	MJ	3.82E+00	1.28E-02	4.51E-04	0*	3.81E+00	1.63E-03	-5.98E-03
Contribution to use of secondary material	kg	0.00E+00	0*	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	m³	3.86E-04	8.71E-06	4.28E-08	0*	3.77E-04	5.53E-07	-5.57E-06
Contribution to hazardous waste disposed	kg	1.40E-02	7.73E-03	0*	0*	6.31E-03	2.14E-06	-5.78E-03
Contribution to non hazardous waste disposed	kg	4.13E-02	4.70E-04	0*	7.65E-06	4.08E-02	9.39E-05	-3.09E-04
Contribution to radioactive waste disposed	kg	4.49E-06	2.91E-07	7.20E-09	0*	4.19E-06	4.84E-09	-2.04E-07
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	9.77E-05	2.09E-05	0*	3.10E-06	0*	7.36E-05	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	6.29E-06	2.29E-06	0*	3.27E-06	0*	7.29E-07	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	5.30E+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 Pro DC 720,DC charger 720 kW,power cabinet,Australia - EVD1S720-AN							
Impact indicators	**Unit**	**[B1 - B7] - Use**	**[B1]**	**[B2]**	**[B3]**	**[B4]**	**[B5]**	**[B6]**	**[B7]**
Contribution to climate change	kg CO2 eq	2.46E-01	0*	0*	0*	0*	0*	2.46E-01	0*
Contribution to climate change-fossil	kg CO2 eq	2.46E-01	0*	0*	0*	0*	0*	2.46E-01	0*
Contribution to climate change-biogenic	kg CO2 eq	1.50E-04	0*	0*	0*	0*	0*	1.50E-04	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	1.22E-09	0*	0*	0*	0*	0*	1.22E-09	0*
Contribution to acidification	mol H+ eq	1.60E-03	0*	0*	0*	0*	0*	1.60E-03	0*
Contribution to eutrophication, freshwater	kg P eq	2.69E-09	0*	0*	0*	0*	0*	2.69E-09	0*
Contribution to eutrophication marine	kg N eq	1.78E-04	0*	0*	0*	0*	0*	1.78E-04	0*
Contribution to eutrophication, terrestrial	mol N eq	2.02E-03	0*	0*	0*	0*	0*	2.02E-03	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.93E-04	0*	0*	0*	0*	0*	5.93E-04	0*
Contribution to resource use, minerals and metals	kg Sb eq	3.99E-08	0*	0*	0*	0*	0*	3.99E-08	0*
Contribution to resource use, fossils	MJ	3.81E+00	0*	0*	0*	0*	0*	3.81E+00	0*
Contribution to water use	m3 eq	1.62E-02	0*	0*	0*	0*	0*	1.62E-02	0*

Inventory flows Indicators		EVlink Pro DC 720,DC charger 720 kW,power cabinet,Australia - EVD1S720-AN							
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	4.40E-01	0*	0*	0*	0*	0*	4.40E-01	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	4.40E-01	0*	0*	0*	0*	0*	4.40E-01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.81E+00	0*	0*	0*	0*	0*	3.81E+00	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	3.81E+00	0*	0*	0*	0*	0*	3.81E+00	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	3.77E-04	0*	0*	0*	0*	0*	3.77E-04	0*
Contribution to hazardous waste disposed	kg	6.31E-03	0*	0*	0*	0*	0*	6.31E-03	0*
Contribution to non hazardous waste disposed	kg	4.08E-02	0*	0*	0*	0*	0*	4.08E-02	0*
Contribution to radioactive waste disposed	kg	4.19E-06	0*	0*	0*	0*	0*	4.19E-06	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 v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 :	ENVPEP2511012_V1	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0018-ed1-2021 09 13
Date of issue	12/11/2025	*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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