

# Product Environmental Profile

## EVlink Pro DC 180 kW Credit card reader Version





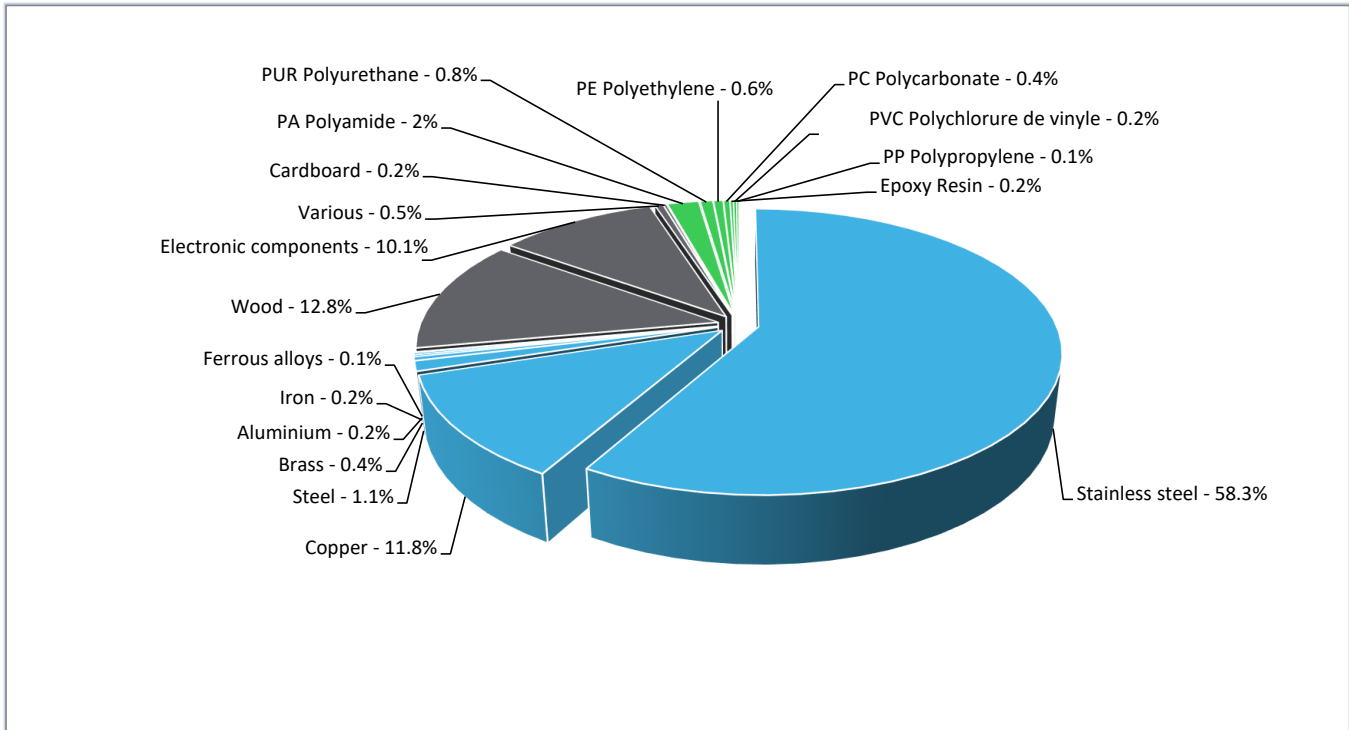
## General information

Reference product	EVlink Pro DC 180 kW Credit card reader Version - EVD1S180THBCC
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 mode. 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 kW to one vehicle in accordance with the reference use scenario at the charging point
Specifications are:	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 - DC meter - 1 or 2 attached cables with a mobile CCS2 or CHAdeMO plug



## Constituent materials

Reference product mass	629317 g including the product, its packaging and additional elements and accessories
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Plastics	4.30%
Metals	72.10%
Others	23.60%



## Substance assessment

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

## Additional environmental information

End Of Life	Recyclability potential:	82%	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.
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## 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 installation required cable, screws		
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 sleep mode 1% of the time with the power use of 0 KW 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 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	Europe		
Energy model used	[A1 - A3]	[A5]	[B6]
	China, CN	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27
			[C1 - C4]
			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>

All data scaled down to 1 KWh

Mandatory Indicators		EVlink Pro DC 180 kW Credit card reader Version - EVD1S180THBCC							
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	7.07E-02	5.62E-03	1.45E-04	6.66E-05	6.39E-02	9.54E-04	-1.02E-03	
Contribution to climate change-fossil	kg CO2 eq	7.04E-02	5.54E-03	1.45E-04	4.13E-05	6.37E-02	9.45E-04	-1.01E-03	
Contribution to climate change-biogenic	kg CO2 eq	2.72E-04	7.25E-05	0*	2.53E-05	1.65E-04	9.47E-06	-1.12E-05	
Contribution to climate change-land use and land use change	kg CO2 eq	2.22E-10	4.55E-11	0*	0*	0*	1.77E-10	0.00E+00	
Contribution to ozone depletion	kg CFC-11 eq	2.13E-09	1.06E-09	1.28E-10	0*	9.40E-10	5.33E-12	-1.66E-10	
Contribution to acidification	mol H+ eq	4.20E-04	4.60E-05	6.31E-07	0*	3.70E-04	3.71E-06	-1.31E-05	
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	3.40E-06	6.34E-08	0*	0*	3.04E-06	3.01E-07	-1.55E-09	
Contribution to eutrophication marine	kg N eq	5.65E-05	4.58E-06	2.90E-07	1.04E-08	5.09E-05	7.02E-07	-6.44E-07	
Contribution to eutrophication, terrestrial	mol N eq	7.92E-04	4.95E-05	3.14E-06	1.06E-07	7.31E-04	7.95E-06	-7.52E-06	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.71E-04	1.71E-05	1.03E-06	3.47E-08	1.51E-04	2.46E-06	-3.02E-06	
Contribution to resource use, minerals and metals	kg Sb eq	1.01E-06	9.69E-07	0*	0*	3.02E-08	9.56E-09	-3.44E-07	
Contribution to resource use, fossils	MJ	1.24E+01	8.00E-02	1.81E-03	0*	1.23E+01	5.04E-02	-2.25E-02	
Contribution to water use	m3 eq	7.81E-03	2.66E-03	7.37E-06	5.64E-06	4.63E-03	5.09E-04	-7.39E-04	

Additional indicators for the French regulation are available as well

Inventory flows Indicators		EVlink Pro DC 180 kW Credit card reader Version - EVD1S180THBCC						
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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.14E+00	2.47E-03	0*	2.29E-04	1.13E+00	2.31E-04	-3.61E-04
Contribution to use of renewable primary energy resources used as raw material	MJ	9.95E-04	9.95E-04	0*	0*	0*	0*	-3.09E-04
Contribution to total use of renewable primary energy resources	MJ	1.14E+00	3.47E-03	0*	2.29E-04	1.13E+00	2.31E-04	-6.70E-04
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.24E+01	7.83E-02	1.81E-03	0*	1.23E+01	5.04E-02	-2.25E-02
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.67E-03	1.67E-03	0*	0*	0*	0*	9.49E-08
Contribution to total use of non-renewable primary energy resources	MJ	1.24E+01	8.00E-02	1.81E-03	0*	1.23E+01	5.04E-02	-2.25E-02
Contribution to use of secondary material	kg	1.43E-07	1.43E-07	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	1.82E-04	6.19E-05	1.72E-07	1.31E-07	1.08E-04	1.18E-05	-1.72E-05
Contribution to hazardous waste disposed	kg	3.24E-02	3.14E-02	0*	0*	9.51E-04	4.23E-05	-2.80E-02
Contribution to non hazardous waste disposed	kg	7.46E-03	1.25E-03	0*	4.02E-05	6.14E-03	2.63E-05	-7.52E-04
Contribution to radioactive waste disposed	kg	3.22E-06	6.07E-07	2.89E-08	1.49E-09	2.58E-06	2.98E-09	-3.48E-07
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.41E-04	4.33E-05	0*	1.67E-05	0*	2.81E-04	0.00E+00
Contribution to materials for energy recovery	kg	7.67E-13	7.67E-13	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	2.60E-05	5.08E-06	0*	1.68E-05	0*	4.03E-06	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 de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	3.16E+01

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

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-00001-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
Verifier accreditation N°	0	Supplemented by	PSR-0018-ed1-EN-2021 09 13
Date of issue	04-2024	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

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