Product Environmental Profile

Schneider Charge Charging station

Schneider Charge

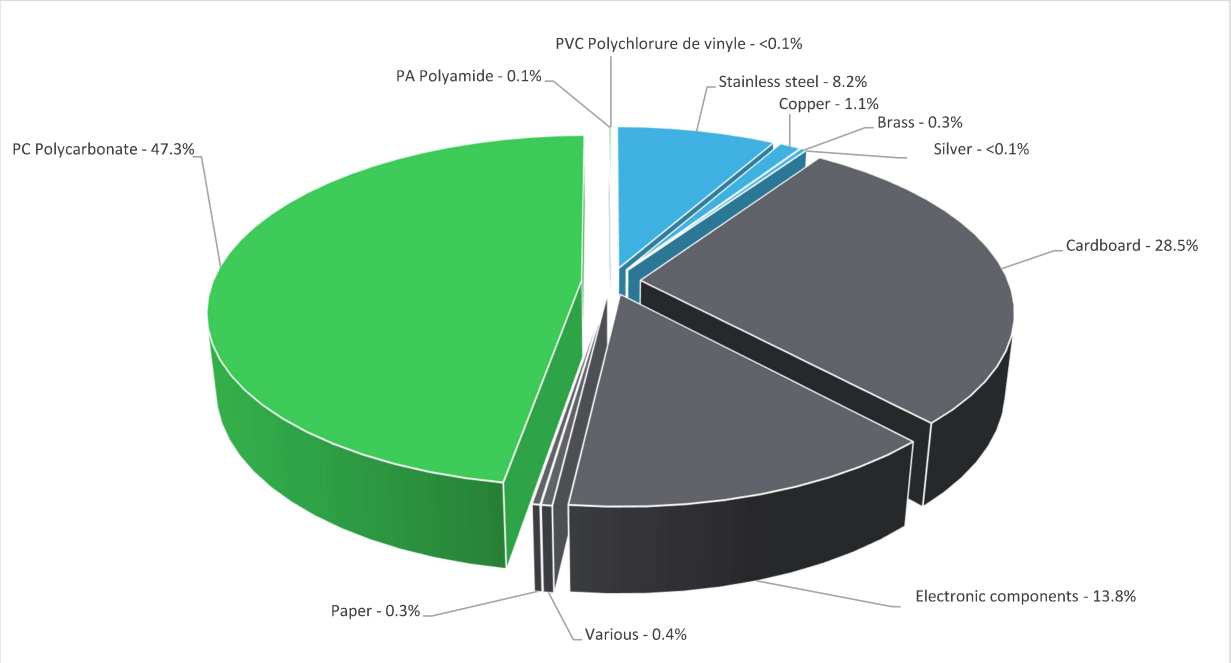


General information

Reference product	Schneider Charge Charging station - EVH5A22N400F
Description of the product	The e Resi charging station is designed to allow private persons to have a charging point dedicated to their electric vehicle. Its function unit is to allow the charging of an electrical vehicle 7 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 range includes Schneider Charge in different colors and specifications. The representative product used for the analysis is Schneider Charge 7,4/11/22KW 1P+N/3P+N 16/32A T2S TIC(commercial reference: EVH5A22N400F) The mass range of the product is from 3200 g and 5200 g including packaging.
Functional unit	Supply 1 kWh to one vehicle in accordance with the reference use scenario at the charging point
Specifications are:	Charging an electrical vehicle with power 7 to 22 kW, with T2S outlet during 10 years. EN61851-1 Ed3.0 EN 61000-6-1 EN 61000-6-3 IEC 61851-21-2 IEC62955 (Meet <<Minimum requirements from IEC62955>> as attached)

Constituent materials

Reference product mass	4780 g	including the product, its packaging, additional elements and accessories



	Plastics	47.4%
	Metals	9.6%
	Others	43.0%

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:	12%	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	Private or semi-public station - AC wallbox			
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 consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible 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 29% of the time with a power use of 7.8W; in standby mode 70% of the time with a power use of 4.6W; in sleep mode 1% of the time with a power use of 0W, for 10 years.			
Time representativeness	The collected data are representative of the year 2026			
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 representative of the actual type of technologies used to make the product.			
Geographical representativeness	Final assembly site	Use phase		End-of-life
	Europe	Europe		Europe
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity mix; Production mix; low voltage; 2022; Europe, EU-27	No energy used	Electricity mix; Production mix; low voltage; 2022; Europe, EU-27	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

Mandatory Indicators		Schneider Charge Charging station - EVH5A22N400F						
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	5.78E+02	2.00E+02	2.52E+00	3.67E+00	3.67E+02	4.50E+00	-1.75E+00
Contribution to climate change-fossil	kg CO2 eq	5.70E+02	2.02E+02	2.52E+00	1.66E+00	3.59E+02	4.49E+00	-1.73E+00
Contribution to climate change-biogenic	kg CO2 eq	8.07E+00	-2.07E+00	0*	2.01E+00	8.12E+00	8.58E-03	-1.41E-02
Contribution to climate change-land use and land use change	kg CO2 eq	3.99E-03	3.98E-03	6.58E-06	0*	0.00E+00	3.40E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.29E-05	3.11E-05	4.80E-08	2.28E-08	1.57E-06	9.08E-08	-3.64E-07
Contribution to acidification	mol H+ eq	2.83E+00	8.80E-01	5.62E-03	4.86E-03	1.92E+00	1.24E-02	-1.80E-02
Contribution to eutrophication, freshwater	kg P eq	1.57E-03	6.19E-04	9.86E-06	3.47E-05	8.80E-04	2.53E-05	-3.48E-06
Contribution to eutrophication, marine	kg N eq	3.31E-01	1.00E-01	1.29E-03	2.04E-03	2.25E-01	2.55E-03	-1.05E-03
Contribution to eutrophication, terrestrial	mol N eq	4.78E+00	1.11E+00	1.41E-02	1.47E-02	3.61E+00	3.10E-02	-1.21E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.06E+00	3.33E-01	4.07E-03	3.37E-03	7.14E-01	7.46E-03	-4.80E-03
Contribution to resource use, minerals and metals	kg Sb eq	4.98E-02	4.97E-02	0*	0*	1.19E-04	0*	-5.11E-04
Contribution to resource use, fossils	MJ	1.11E+04	2.20E+03	4.87E+01	1.66E+01	8.81E+03	6.13E+01	-3.49E+01
Contribution to water use	m3 eq	1.03E+02	7.46E+01	1.34E-01	1.34E-01	2.79E+01	2.60E-01	-1.13E+00

Internal

Inventory flows Indicators		Schneider Charge Charging station - EVH5A22N400F						
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	2.26E+03	1.89E+02	2.43E-01	2.16E+00	2.06E+03	2.00E+00	-4.76E-01
Contribution to renewable primary energy used as raw material	MJ	9.89E+00	9.89E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to total renewable primary energy	MJ	2.27E+03	1.99E+02	2.43E-01	2.16E+00	2.06E+03	2.00E+00	-4.76E-01
Contribution to non renewable primary energy used as energy	MJ	1.10E+04	2.10E+03	4.87E+01	1.66E+01	8.81E+03	6.13E+01	-3.49E+01
Contribution to non renewable primary energy used as raw material	MJ	1.01E+02	1.01E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to total non renewable primary energy	MJ	1.11E+04	2.20E+03	4.87E+01	1.66E+01	8.81E+03	6.13E+01	-3.49E+01
Contribution to use of secondary material	kg	1.24E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to 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
Contribution to 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
Contribution to net use of fresh water	m^3	2.39E+00	1.72E+00	3.13E-03	1.03E-02	6.51E-01	6.77E-03	-2.64E-02
Contribution to hazardous waste disposed	kg	7.88E+02	7.76E+02	0*	8.76E-02	1.01E+01	1.51E+00	-3.97E+01
Contribution to non hazardous waste disposed	kg	1.08E+02	5.03E+01	4.03E-01	5.86E-01	5.54E+01	8.50E-01	-1.09E+00
Contribution to radioactive waste disposed	kg	3.72E-02	2.35E-02	3.19E-04	1.08E-04	1.31E-02	2.26E-04	-5.03E-04
Contribution to 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
Contribution to materials for recycling	kg	1.76E+00	1.47E-01	0.00E+00	1.16E+00	0.00E+00	4.53E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to exported energy	MJ	6.72E-02	1.21E-03	0.00E+00	6.16E-02	0.00E+00	4.47E-03	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	3.87E-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		Schneider Charge Charging station - EVH5A22N400F							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	3.67E+02	0	0.00E+00	0	0	0	3.67E+02	0
Contribution to climate change-fossil	kg CO2 eq	3.59E+02	0	0.00E+00	0	0	0	3.59E+02	0
Contribution to climate change-biogenic	kg CO2 eq	8.12E+00	0	0.00E+00	0	0	0	8.12E+00	0
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to ozone depletion	kg CFC-11 eq	1.57E-06	0	0.00E+00	0	0	0	1.57E-06	0
Contribution to acidification	mol H+ eq	1.92E+00	0	0.00E+00	0	0	0	1.92E+00	0
Contribution to eutrophication, freshwater	kg P eq	8.80E-04	0	0.00E+00	0	0	0	8.80E-04	0
Contribution to eutrophication marine	kg N eq	2.25E-01	0	0.00E+00	0	0	0	2.25E-01	0
Contribution to eutrophication, terrestrial	mol N eq	3.61E+00	0	0.00E+00	0	0	0	3.61E+00	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.14E-01	0	0.00E+00	0	0	0	7.14E-01	0
Contribution to resource use, minerals and metals	kg Sb eq	1.19E-04	0	0.00E+00	0	0	0	1.19E-04	0
Contribution to resource use, fossils	MJ	8.81E+03	0	0.00E+00	0	0	0	8.81E+03	0
Contribution to water use	m3 eq	2.79E+01	0	0.00E+00	0	0	0	2.79E+01	0

Inventory flows Indicators		Schneider Charge Charging station - EVH5A22N400F							
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	2.06E+03	0	0.00E+00	0	0	0	2.06E+03	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of renewable primary energy resources	MJ	2.06E+03	0	0.00E+00	0	0	0	2.06E+03	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.81E+03	0	0.00E+00	0	0	0	8.81E+03	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of non-renewable primary energy resources	MJ	8.81E+03	0	0.00E+00	0	0	0	8.81E+03	0
Contribution to use of secondary material	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to net use of freshwater	m^3	6.51E-01	0	0.00E+00	0	0	0	6.51E-01	0
Contribution to hazardous waste disposed	kg	1.01E+01	0	0.00E+00	0	0	0	1.01E+01	0
Contribution to non hazardous waste disposed	kg	5.54E+01	0	0.00E+00	0	0	0	5.54E+01	0
Contribution to radioactive waste disposed	kg	1.31E-02	0	0.00E+00	0	0	0	1.31E-02	0
Contribution to components for reuse	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for recycling	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for energy recovery	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to exported energy	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0

Functional Unit Result

Mandatory Indicators		Schneider Charge Pro Charging station - EVB4S22N40MG							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4.04E-01	0	0.00E+00	0	0	0	4.04E-01	0
Contribution to climate change-fossil	kg CO2 eq	3.95E-01	0	0.00E+00	0	0	0	3.95E-01	0
Contribution to climate change-biogenic	kg CO2 eq	8.93E-03	0	0.00E+00	0	0	0	8.93E-03	0
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to ozone depletion	kg CO2 eq	1.73E-09	0	0.00E+00	0	0	0	1.73E-09	0
Contribution to acidification	kg CFC-11 eq	2.12E-03	0	0.00E+00	0	0	0	2.12E-03	0
Contribution to eutrophication, freshwater	mol H+ eq	9.68E-07	0	0.00E+00	0	0	0	9.68E-07	0
Contribution to eutrophication marine	kg P eq	2.48E-04	0	0.00E+00	0	0	0	2.48E-04	0
Contribution to eutrophication, terrestrial	kg N eq	3.97E-03	0	0.00E+00	0	0	0	3.97E-03	0
Contribution to photochemical ozone formation - human health	mol N eq	7.85E-04	0	0.00E+00	0	0	0	7.85E-04	0
Contribution to resource use, minerals and metals	kg COVNM eq	1.31E-07	0	0.00E+00	0	0	0	1.31E-07	0
Contribution to resource use, fossils	kg Sb eq	9.69E+00	0	0.00E+00	0	0	0	9.69E+00	0
Contribution to water use	MJ	3.06E-02	0	0.00E+00	0	0	0	3.06E-02	0

Inventory flows Indicators		Schneider Charge Pro Charging station - EVB4S22N40MG							
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	Unit	2.27E+00	0	0.00E+00	0	0	0	2.27E+00	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of renewable primary energy resources	MJ	2.27E+00	0	0.00E+00	0	0	0	2.27E+00	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.69E+00	0	0.00E+00	0	0	0	9.69E+00	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of non-renewable primary energy resources	MJ	9.69E+00	0	0.00E+00	0	0	0	9.69E+00	0
Contribution to use of secondary material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of renewable secondary fuels	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to net use of freshwater	MJ	7.16E-04	0	0.00E+00	0	0	0	7.16E-04	0
Contribution to hazardous waste disposed	m^3	1.12E-02	0	0.00E+00	0	0	0	1.12E-02	0
Contribution to non hazardous waste disposed	kg	6.09E-02	0	0.00E+00	0	0	0	6.09E-02	0
Contribution to radioactive waste disposed	kg	1.44E-05	0	0.00E+00	0	0	0	1.44E-05	0
Contribution to components for reuse	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for recycling	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for energy recovery	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to exported energy	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0

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

Life cycle assessment performed with EIME version v6.3.1, 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 :	ENVPEP2310034_V3	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0018-ed1.1-EN-2024 01 31
Date of issue	07-2026	*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 NF C08-100-1:2022 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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