

Product Environmental Profile

Fast charging station, EVlink ProDC, 60kW

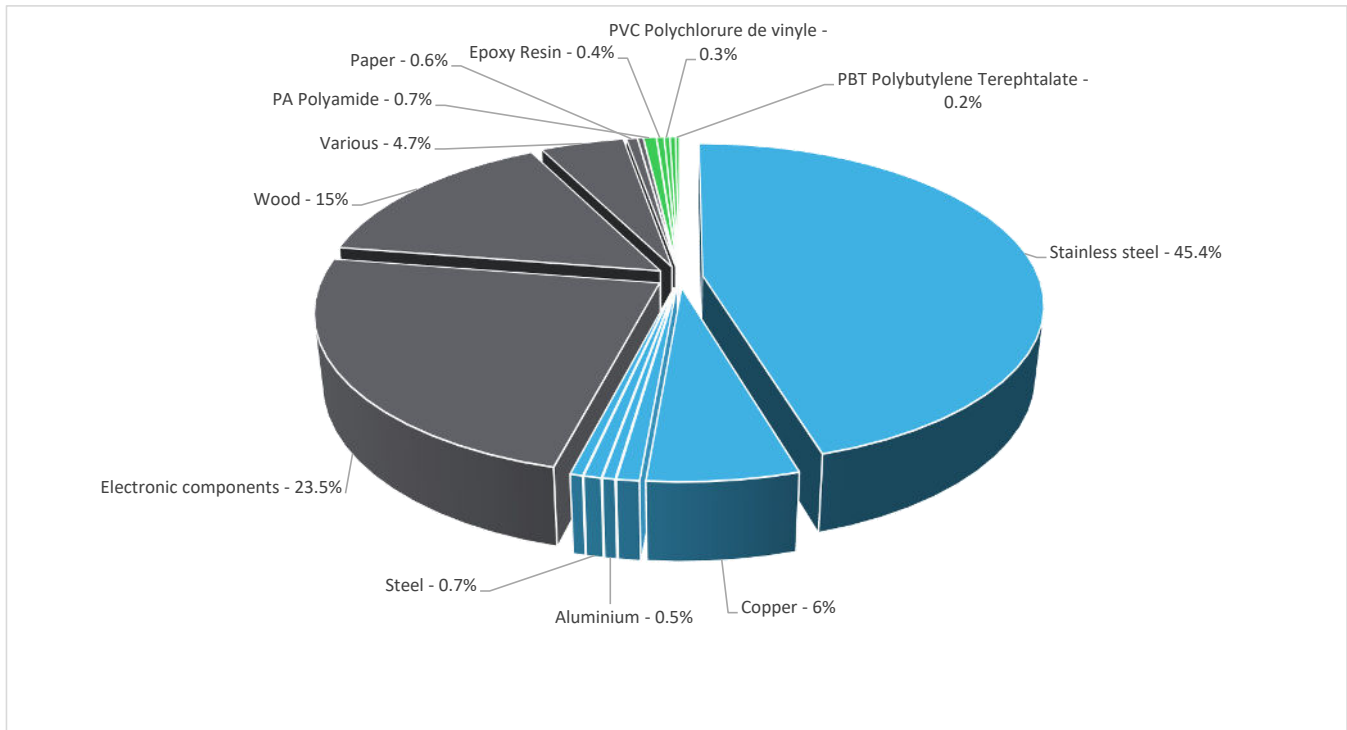


General information

| | |
|----------------------------|---|
| Reference product | Fast charging station, EVlink ProDC, 60kW - EVD1S60THB |
| Description of the product | Athena 60KW charging station is designed to apply in public for electric vehicle . Its function unit is to allow the full charging of an electric vehicle within 1 hour for 10 years. |
| 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 220000 g including the product, its packaging and additional elements and accessories



| | |
|----------|--------|
| Plastics | 1.90% |
| Metals | 54.00% |
| Others | 44.10% |

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: | 70% | 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 installation required cables and screws. | | | |
| Use scenario | The product is in active mode 49% of the time with a power use of 1650W ; in stand-by mode 30% of the time with a power use of 27W; in sleep mode 20% of the time with a power use of 27W and in other 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 | Athena 60KW charging station is designed to apply in public for electric vehicle . Its function unit is to allow the full charging of an electric vehicle within 1 hour for 10 years. | | | |
| Geographical representativeness | Europe | | | |
| Energy model used | [A1 - A3] | [A5] | [B6] | [C1 - C4] |
| | China, CN | Electricity Mix; High voltage; 2018; France, FR | Electricity Mix; High voltage; 2018; France, FR | Electricity Mix; High voltage; 2018; France, FR |

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>

| Mandatory Indicators | | Fast charging station, EVlink ProDC, 60kW - EVD1S60THB | | | | | | |
|--|---------------------------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| 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 | 8.89E+03 | 3.71E+03 | 7.93E+01 | 5.49E+01 | 4.60E+03 | 4.41E+02 | -4.61E+02 |
| Contribution to climate change-fossil | kg CO2 eq | 8.81E+03 | 3.67E+03 | 7.93E+01 | 3.84E+01 | 4.59E+03 | 4.36E+02 | -4.56E+02 |
| Contribution to climate change-biogenic | kg CO2 eq | 7.63E+01 | 4.34E+01 | 0* | 1.65E+01 | 1.19E+01 | 4.56E+00 | -5.01E+00 |
| Contribution to climate change-land use and land use change | kg CO2 eq | 1.02E-03 | 9.21E-04 | 0* | 2.22E-05 | 0* | 8.13E-05 | 0.00E+00 |
| Contribution to ozone depletion | kg CFC-11 eq | 8.41E-04 | 7.00E-04 | 7.00E-05 | 2.46E-07 | 6.77E-05 | 2.63E-06 | -7.49E-05 |
| Contribution to acidification | mol H+ eq | 5.86E+01 | 2.99E+01 | 3.44E-01 | 2.56E-02 | 2.66E+01 | 1.70E+00 | -6.15E+00 |
| Contribution to eutrophication, freshwater | kg (PO4) ³⁻ eq | 3.89E-01 | 2.36E-02 | 0* | 3.10E-04 | 2.19E-01 | 1.46E-01 | -7.41E-04 |
| Contribution to eutrophication marine | kg N eq | 7.23E+00 | 3.07E+00 | 1.58E-01 | 9.33E-03 | 3.66E+00 | 3.30E-01 | -2.92E-01 |
| Contribution to eutrophication, terrestrial | mol N eq | 9.13E+01 | 3.30E+01 | 1.72E+00 | 9.56E-02 | 5.27E+01 | 3.73E+00 | -3.40E+00 |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 2.39E+01 | 1.13E+01 | 5.62E-01 | 2.91E-02 | 1.09E+01 | 1.14E+00 | -1.37E+00 |
| Contribution to resource use, minerals and metals | kg Sb eq | 4.77E-01 | 4.70E-01 | 0* | 0* | 2.18E-03 | 4.61E-03 | -1.51E-01 |
| Contribution to resource use, fossils | MJ | 9.65E+05 | 5.90E+04 | 9.86E+02 | 0* | 8.83E+05 | 2.18E+04 | -9.97E+03 |
| Contribution to water use | m3 eq | 2.01E+03 | 1.43E+03 | 4.02E+00 | 9.10E+00 | 3.33E+02 | 2.31E+02 | -3.37E+02 |

Additional indicators for the French regulation are available as well

| Inventory flows Indicators | | Fast charging station, EVlink ProDC, 60kW - EVD1S60THB | | | | | | |
|---|------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| 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 | 8.37E+04 | 1.77E+03 | 0* | 1.51E+02 | 8.17E+04 | 1.12E+02 | -1.73E+02 |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 5.34E+02 | 5.34E+02 | 0* | 0* | 0* | 0* | -1.93E+02 |
| Contribution to total use of renewable primary energy resources | MJ | 8.42E+04 | 2.30E+03 | 0* | 1.51E+02 | 8.17E+04 | 1.12E+02 | -3.66E+02 |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 9.63E+05 | 5.75E+04 | 9.86E+02 | 0* | 8.83E+05 | 2.18E+04 | -9.97E+03 |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 1.59E+03 | 1.59E+03 | 0* | 0* | 0* | 0* | -1.72E-01 |
| Contribution to total use of non-renewable primary energy resources | MJ | 9.65E+05 | 5.90E+04 | 9.86E+02 | 0* | 8.83E+05 | 2.18E+04 | -9.97E+03 |
| Contribution to use of secondary material | kg | 1.86E+00 | 1.86E+00 | 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 | 4.67E+01 | 3.33E+01 | 9.36E-02 | 2.12E-01 | 7.76E+00 | 5.37E+00 | -7.84E+00 |
| Contribution to hazardous waste disposed | kg | 1.22E+04 | 1.21E+04 | 0* | 0* | 6.85E+01 | 2.52E+01 | -1.23E+04 |
| Contribution to non hazardous waste disposed | kg | 1.40E+03 | 8.88E+02 | 0* | 3.26E+01 | 4.42E+02 | 3.28E+01 | -3.55E+02 |
| Contribution to radioactive waste disposed | kg | 7.49E-01 | 5.44E-01 | 1.58E-02 | 1.43E-03 | 1.86E-01 | 2.12E-03 | -1.75E-01 |
| Contribution to components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to materials for recycling | kg | 1.56E+02 | 1.83E+01 | 0* | 1.43E+01 | 0* | 1.24E+02 | 0.00E+00 |
| Contribution to materials for energy recovery | kg | 4.13E-07 | 4.13E-07 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to exported energy | MJ | 1.68E+01 | 3.20E+00 | 0* | 1.10E+01 | 0* | 2.61E+00 | 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 | 1.35E+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 | 03-2024 | Information and reference documents | www.pep-ecopassport.org |
| | | 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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