

Product Environmental Profile

APC Smart-UPS Ultra On-Line, Lithium-ion

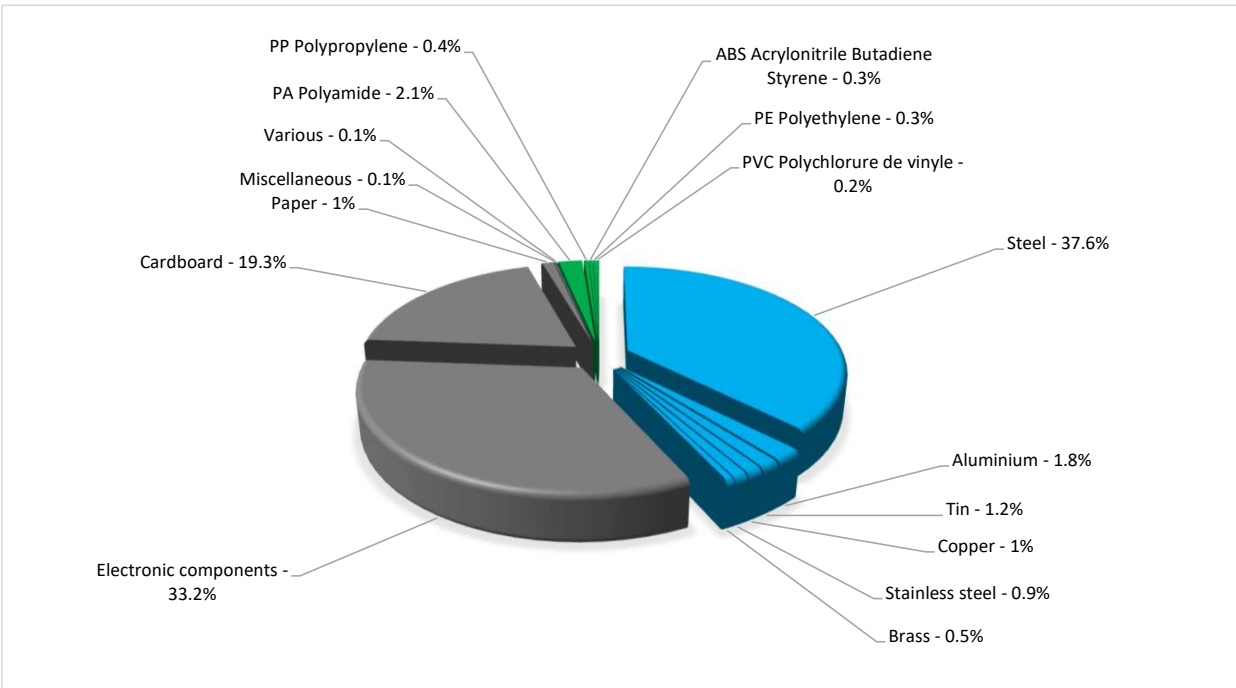


General information

| | |
|----------------------------|--|
| Reference product | APC Smart-UPS Ultra On-Line, 3kVA, Lithium-ion, Rack/Tower 1U, 120V, 5x 5-20R, 1x L5-30R NEMA outlets, SmartConnect - SRTL3KRM1UC |
| Description of the product | This APC Smart-UPS Ultra On-Line, Lithium-ion Uninterruptible Power Supply is designed for IT professionals or network administrators to maintain business uptime and continuity. This Smart-UPS offers cloud-based remote power monitoring, UPS firmware upgrades, remote diagnostics and proactive email notifications with recommended actions. The UPS can connect to EcoStruxure IT or third-party centralized management platforms |
| Functional unit | To protect the load of 2880 Watts against input power failure during 8 years and provide a backup time of 4 minutes in case of a power outage. |

Constituent materials

| | |
|------------------------|--|
| Reference product mass | 24180 g including the product, its packaging and additional elements and accessories |
|------------------------|--|



| | |
|----------|--------|
| Plastics | 3.30% |
| Metals | 43.00% |
| Others | 53.70% |

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: | 53% | Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability). |
|--------------------|--------------------------|------------|--|

Environmental impacts

| | | | |
|---|---|--|--|
| Reference service life time | 8 years | | |
| Installation elements | Ref SRTL3KRM1UC does not require any installation operations, the disposal of the packaging materials are accounted for 20.5% during the installation phase (including transport to disposal). | | |
| Use scenario | Power consumption conforms to the requirements in PSR0010 where it is modeled to operate 50% load for 30% of the time, 75% load for 40% of the time, and 100% load for 30% of the time. The UPS is modeled to operate in normal mode (average efficiency of 92.9% and annual use of 1358.2kWh). | | |
| 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 | North America | | |
| Energy model used | [A1 - A3] | [A5] | [B6] |
| | Electricity Mix; Production mix; Low voltage; APAC | Electricity Mix; Production mix; Low voltage; US | Electricity Mix; Production mix; Low voltage; US |
| | | | [C1 - C4] |
| | | | Electricity Mix; Production mix; Low voltage; US |

Detailed results, including all the optional indicators mentioned in PCRred4, and the split of the Use Phase (B1 to B7), 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 | | APC Smart-UPS Ultra On-Line, Lithium-ion - SRTL3KRM1UC | | | | | | |
|--|---------------------------|--|---------------|--------------|--------------|-----------|-------------|-----------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | Benefits |
| | | | [A1 - A3] | [A4] | [A5] | [B1 - B7] | [C1 - C4] | [D] |
| Contribution to climate change | kg CO2 eq | 7.26E+03 | 1.28E+03 | 6.97E+00 | 9.08E+00 | 5.94E+03 | 3.19E+01 | -8.91E+01 |
| Contribution to climate change-fossil | kg CO2 eq | 7.25E+03 | 1.27E+03 | 6.97E+00 | 8.68E+00 | 5.93E+03 | 3.19E+01 | -8.83E+01 |
| Contribution to climate change-biogenic | kg CO2 eq | 8.58E+00 | 1.84E+00 | 0* | 4.03E-01 | 6.28E+00 | 5.50E-02 | -7.80E-01 |
| Contribution to climate change-land use and land use change | kg CO2 eq | 3.51E-05 | 3.38E-05 | 0* | 4.38E-07 | 0* | 8.47E-07 | 0.00E+00 |
| Contribution to ozone depletion | kg CFC-11 eq | 2.47E-04 | 2.15E-04 | 6.15E-06 | 6.03E-07 | 2.52E-05 | 2.90E-07 | -1.37E-05 |
| Contribution to acidification | mol H+ eq | 4.06E+01 | 9.01E+00 | 3.03E-02 | 3.61E-02 | 3.14E+01 | 1.19E-01 | -5.58E-01 |
| Contribution to eutrophication, freshwater | kg (PO4) ³⁻ eq | 4.17E-02 | 3.07E-02 | 0* | 6.75E-05 | 9.15E-03 | 1.81E-03 | -2.64E-04 |
| Contribution to eutrophication marine | kg N eq | 4.89E+00 | 1.11E+00 | 1.39E-02 | 9.55E-03 | 3.74E+00 | 2.12E-02 | -5.81E-02 |
| Contribution to eutrophication, terrestrial | mol N eq | 5.57E+01 | 1.14E+01 | 1.51E-01 | 7.22E-02 | 4.39E+01 | 2.18E-01 | -6.28E-01 |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 1.62E+01 | 3.69E+00 | 4.95E-02 | 1.93E-02 | 1.24E+01 | 7.67E-02 | -2.14E-01 |
| Contribution to resource use, minerals and metals | kg Sb eq | 5.92E-01 | 5.91E-01 | 0* | 0* | 2.40E-04 | 0* | -2.06E-02 |
| Contribution to resource use, fossils | MJ | 1.44E+05 | 1.52E+04 | 8.46E+01 | 9.44E+01 | 1.26E+05 | 2.06E+03 | -1.71E+03 |
| Contribution to water use | m3 eq | 1.43E+03 | 1.17E+03 | 3.54E-01 | 3.99E+00 | 2.13E+02 | 4.20E+01 | -4.01E+01 |

Additional indicators for the French regulation are available as well

| Inventory flows Indicators | | | APC Smart-UPS Ultra On-Line, Lithium-ion - SRTL3KRM1UC | | | | | |
|---|---------|----------|--|--------------|--------------|-----------|-------------|-----------|
| Inventory flows | Unit | Total | Manufact. | Distribution | Installation | Use | End of Life | Benefits |
| | | | [A1 - A3] | [A4] | [A5] | [B1 - B7] | [C1 - C4] | [D] |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 1.63E+04 | 4.59E+02 | 0* | 6.86E+00 | 1.58E+04 | 0* | 3.66E+01 |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 9.84E+01 | 9.84E+01 | 0* | 0* | 0* | 0* | -8.97E+01 |
| Contribution to total use of renewable primary energy resources | MJ | 1.64E+04 | 5.58E+02 | 0* | 6.86E+00 | 1.58E+04 | 0* | -5.31E+01 |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 1.43E+05 | 1.51E+04 | 8.46E+01 | 9.44E+01 | 1.26E+05 | 2.06E+03 | -1.71E+03 |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 1.21E+02 | 1.21E+02 | 0* | 0* | 0* | 0* | -3.67E+00 |
| Contribution to total use of non-renewable primary energy resources | MJ | 1.44E+05 | 1.52E+04 | 8.46E+01 | 9.44E+01 | 1.26E+05 | 2.06E+03 | -1.71E+03 |
| Contribution to use of secondary material | kg | 4.12E-04 | 4.12E-04 | 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 | 3.34E+01 | 2.73E+01 | 8.23E-03 | 9.28E-02 | 4.96E+00 | 1.06E+00 | -9.33E-01 |
| Contribution to hazardous waste disposed | kg | 1.24E+04 | 1.22E+04 | 0* | 0* | 1.16E+02 | 1.84E+01 | -1.62E+03 |
| Contribution to non hazardous waste disposed | kg | 1.38E+03 | 4.69E+02 | 0* | 2.95E+01 | 8.77E+02 | 1.97E+00 | -1.92E+02 |
| Contribution to radioactive waste disposed | kg | 3.46E-01 | 1.75E-01 | 1.39E-03 | 3.96E-03 | 1.65E-01 | 2.05E-04 | -3.84E-02 |
| Contribution to components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to materials for recycling | kg | 1.55E+01 | 4.01E-02 | 0* | 5.06E+00 | 0* | 1.04E+01 | 0.00E+00 |
| Contribution to materials for energy recovery | kg | 1.10E-07 | 1.10E-07 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to exported energy | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to biogenic carbon content of the product | kg de C | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to biogenic carbon content of the associated packaging | kg de C | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

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 : | ENVPEP2311011_V1 | Drafting rules | PEP-PCR-ed4-2021 09 06 |
| Verifier accreditation N° | | Supplemented by Information and reference documents | PSR-0010-ed1.1-2015 10 16 www.pep-ecopassport.org |
| Date of issue | 2023/11/13 | 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) | | | |
| PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019 | | | |
| The elements of the present PEP cannot be compared with elements from another program. | | | |
| Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations » | | | |

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