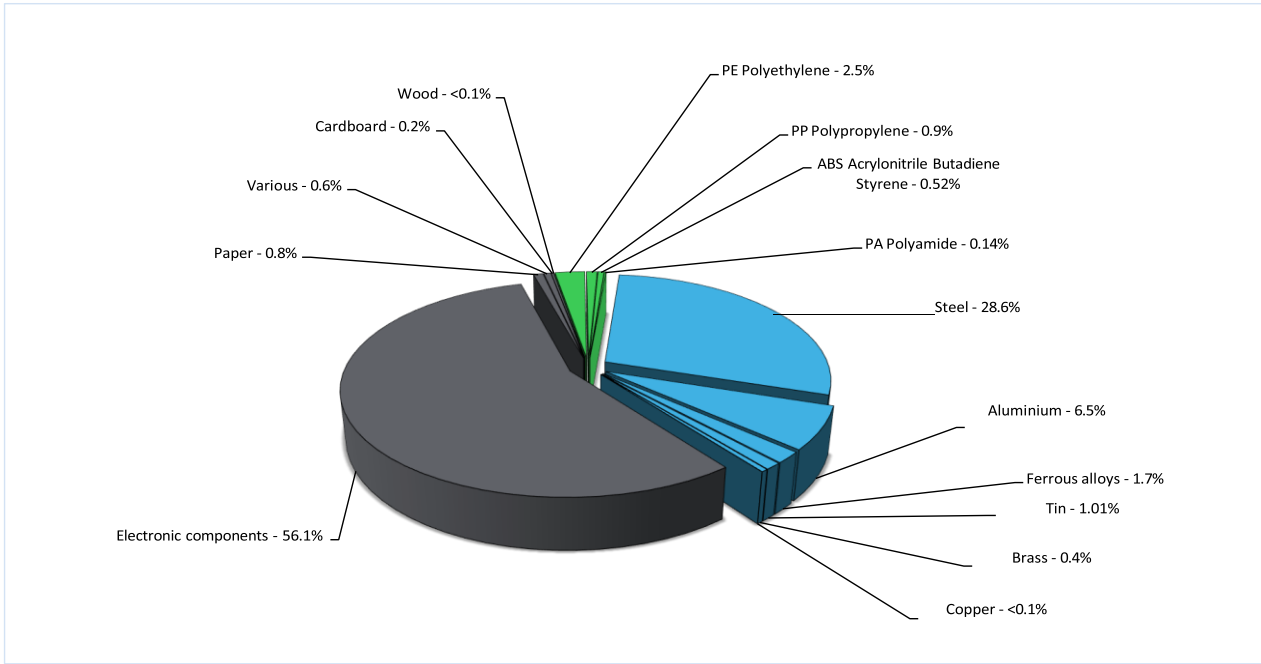


General information

Reference product	APC Smart-UPS Ultra On-Line, Lithium-Ion, Rack/Tower UPS - SRTL10KRM4UT
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
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: SRTL10KRM4UT, SRTL10KRM4UI, SRTL10KRM4UJ, SRTL8KRM4UT, SRTL8KRM4UI, SRTL8KRM4UJ, SRTL5KRM2UI, SRTL5KRM2UI-HW, SRTL5KRM2UJ, SRTL5KRM2UJ-HW, SRTL5KRM2UT, SRTL5KRM2UT-5KRMTF, SRTL5KRM2UT-HW, SRTL5KRM2UT-5KTF Above may not list all applicable products
Functional unit	To protect the load of 10000 Watts against input power failure during 10 years and switch to the energy storage system to avoid power outage
Specifications are:	Rated Power in VA 10000 VA , KW Rating 10000 W, Main Input Voltage 208/240 VAC, Main Output Voltage 208 VAC

Constituent materials

Reference product mass	88500 g including the product, its packaging, additional elements and accessories
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Plastics	4.1%
Metals	38.2%
Others	57.7%

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:	39%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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).
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Environmental impacts

Reference service life time	10 years		
Product category	Uninterruptible Power Supply (UPS) - with energy storage system incorporated - 5000 W< P ≤10000 W		
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	No special installation components need during installation phase, but transport of packaging to disposal and disposal of packaging accounted for during installation.		
Use scenario	The product operates continuously in active mode, consuming 30879 watts for 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 representative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	Philippines	Global	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; Asia Pacific, APAC	No energy used	Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Germany, DE Electricity Mix; Low voltage; 2020; Canada, CA Electricity Mix; Low voltage; 2020; Italy, IT United Kingdom, GB
			[C1 - C4]
			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		APC Smart-UPS Ultra On-Line, Lithium-Ion, Rack/Tower UPS - SRTL10KRM4UT						
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	1.65E+04	3.07E+03	1.41E+01	6.50E+00	1.32E+04	2.27E+02	-1.32E+02
Contribution to climate change-fossil	kg CO2 eq	1.64E+04	3.07E+03	1.41E+01	6.41E+00	1.31E+04	2.27E+02	-1.31E+02
Contribution to climate change-biogenic	kg CO2 eq	1.53E+02	0*	0*	9.56E-02	1.53E+02	1.62E-01	-1.63E+00
Contribution to climate change-land use and land use change	kg CO2 eq	2.97E-04	2.94E-04	0*	0*	0*	2.71E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.10E-03	1.04E-03	0*	0*	5.53E-05	4.03E-07	-2.07E-05
Contribution to acidification	mol H+ eq	8.97E+01	2.20E+01	9.44E-02	1.25E-02	6.72E+01	3.97E-01	-9.20E-01
Contribution to eutrophication, freshwater	kg P eq	6.29E-02	3.72E-02	0*	5.90E-05	1.94E-02	6.21E-03	-4.62E-04
Contribution to eutrophication, marine	kg N eq	1.07E+01	2.48E+00	4.45E-02	2.95E-03	8.05E+00	1.15E-01	-7.57E-02
Contribution to eutrophication, terrestrial	mol N eq	1.34E+02	2.43E+01	4.89E-01	2.89E-02	1.08E+02	1.20E+00	-8.47E-01
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.52E+01	8.54E+00	1.24E-01	8.15E-03	2.62E+01	3.53E-01	-2.99E-01
Contribution to resource use, minerals and metals	kg Sb eq	3.01E-01	2.98E-01	0*	0*	3.24E-03	1.69E-04	-1.65E-02
Contribution to resource use, fossils	MJ	3.22E+05	4.05E+04	1.97E+02	1.58E+02	2.75E+05	5.57E+03	-2.29E+03
Contribution to water use	m3 eq	8.68E+03	7.78E+03	0*	1.08E+00	8.66E+02	3.41E+01	-4.60E+01

Inventory flows Indicators		APC Smart-UPS Ultra On-Line, Lithium-Ion, Rack/Tower UPS - SRTL10KRM4UT						
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	5.74E+04	1.24E+03	0*	0*	5.61E+04	0*	-5.76E+01
Contribution to renewable primary energy used as raw material	MJ	8.59E+01	8.59E+01	0*	0*	0*	0*	-1.21E+01
Contribution to total renewable primary energy	MJ	5.75E+04	1.33E+03	0*	0*	5.61E+04	0*	-6.97E+01
Contribution to non renewable primary energy used as energy	MJ	3.21E+05	3.99E+04	1.97E+02	1.58E+02	2.75E+05	5.57E+03	-2.24E+03
Contribution to non renewable primary energy used as raw material	MJ	5.75E+02	5.75E+02	0*	0*	0*	0*	-4.60E+01
Contribution to total non renewable primary energy	MJ	3.22E+05	4.05E+04	1.97E+02	1.58E+02	2.75E+05	5.57E+03	-2.29E+03
Contribution to use of secondary material	kg	1.28E-01	1.28E-01	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	2.02E+02	1.81E+02	0*	2.52E-02	2.02E+01	7.94E-01	-1.07E+00
Contribution to hazardous waste disposed	kg	1.19E+04	1.16E+04	0*	0*	3.15E+02	4.69E+01	-1.31E+03
Contribution to non hazardous waste disposed	kg	3.49E+03	1.39E+03	4.96E-01	2.41E+00	2.10E+03	3.33E+00	-1.67E+02
Contribution to radioactive waste disposed	kg	2.24E+00	1.80E+00	3.53E-04	0*	4.35E-01	6.20E-04	-1.19E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.64E+01	3.53E+00	0*	1.67E+00	0*	3.12E+01	0.00E+00
Contribution to materials for energy recovery	kg	7.42E-07	7.42E-07	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	4.72E-01	3.88E-02	0*	1.30E-01	0*	3.04E-01	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	3.00E-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		APC Smart-UPS Ultra On-Line, Lithium-Ion, Rack/Tower UPS - SRTL10KRM4UT							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.32E+04	0*	0*	0*	0*	0*	1.32E+04	0*
Contribution to climate change-fossil	kg CO2 eq	1.31E+04	0*	0*	0*	0*	0*	1.31E+04	0*
Contribution to climate change-biogenic	kg CO2 eq	1.53E+02	0*	0*	0*	0*	0*	1.53E+02	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	5.53E-05	0*	0*	0*	0*	0*	5.53E-05	0*
Contribution to acidification	mol H+ eq	6.72E+01	0*	0*	0*	0*	0*	6.72E+01	0*
Contribution to eutrophication, freshwater	kg P eq	1.94E-02	0*	0*	0*	0*	0*	1.94E-02	0*
Contribution to eutrophication marine	kg N eq	8.05E+00	0*	0*	0*	0*	0*	8.05E+00	0*
Contribution to eutrophication, terrestrial	mol N eq	1.08E+02	0*	0*	0*	0*	0*	1.08E+02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.62E+01	0*	0*	0*	0*	0*	2.62E+01	0*
Contribution to resource use, minerals and metals	kg Sb eq	3.24E-03	0*	0*	0*	0*	0*	3.24E-03	0*
Contribution to resource use, fossils	MJ	2.75E+05	0*	0*	0*	0*	0*	2.75E+05	0*
Contribution to water use	m3 eq	8.66E+02	0*	0*	0*	0*	0*	8.66E+02	0*

Inventory flows Indicators		APC Smart-UPS Ultra On-Line, Lithium-Ion, Rack/Tower UPS - SRTL10KRM4UT							
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	5.61E+04	0*	0*	0*	0*	0*	5.61E+04	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	5.61E+04	0*	0*	0*	0*	0*	5.61E+04	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.75E+05	0*	0*	0*	0*	0*	2.75E+05	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	2.75E+05	0*	0*	0*	0*	0*	2.75E+05	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	m³	2.02E+01	0*	0*	0*	0*	0*	2.02E+01	0*
Contribution to hazardous waste disposed	kg	3.15E+02	0*	0*	0*	0*	0*	3.15E+02	0*
Contribution to non hazardous waste disposed	kg	2.10E+03	0*	0*	0*	0*	0*	2.10E+03	0*
Contribution to radioactive waste disposed	kg	4.35E-01	0*	0*	0*	0*	0*	4.35E-01	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 :	ENVPEP2504005_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	04-2025	Supplemented by	PSR-0010-ed1.1-2015 10 16
		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 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"

Schneider Electric Industries SAS

Country Customer Care Center

<http://www.se.com/contact>

Head Office

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 928 298 512 €

www.se.com

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