Product Environmental Profile

Smart-UPS Modular Ultra On-Line







General information

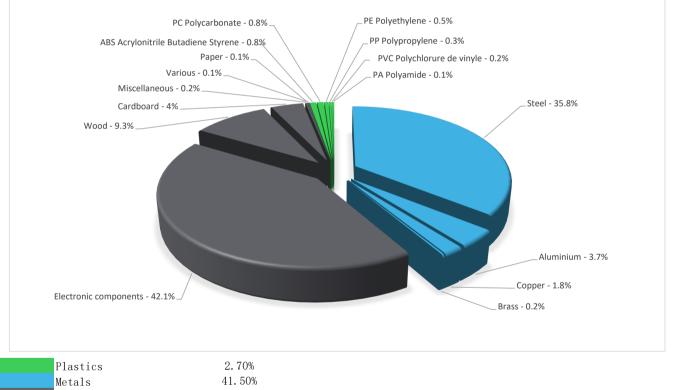
Reference product	Smart-UPS Modular Ultra On-Line - SRYL15K15RMXLT				
Description of the product	The main purpose of Smart-UPS Modular Ultra On-Line product range is to protect equipment and critical data from interruptions by supplying reliable, network-grade back up power reliably and efficiently. The product range provides this protection via ultrahigh power density, On-Line power protection with Lithium-ion batteries in a modular, internally redundant-capable architecture.				
Description of the range	5-20KW 208V/240V UPS with or without network management card				
	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.				
Functional unit	To protect the load of 15000 Watts against input power failure during 15 years and provide backup time of 5.75 minutes in case of a power outage.				

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Constituent materials

Reference product mass

136970 g including the product, its packaging and additional elements and accessories



thers 55.80%

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/

(19) Additional environmental information

End Of Life

Recyclability potential:

61%

Recyclability rate has been calculated based on REEECY'LAB 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).

P Environmental impacts

Reference service life time	15 years					
Installation elements	Ref SRYL15K15RMXLT does not require any installation operations, the disposal of the packaging materials are accounted for 18% during the installation phase (including transport to disposal).					
Use scenario	Power consumption conforms to the requirements in PSR0010 where it is modeled to operate 25% load for 25% of the time, 50% load for 50% of the time, and 75% load for 25% of the time. The UPS is modeled to operate in normal mode (average efficiency of 94.9% and annual use of 3211.1kWh.					
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]	[C1 - C4]		
	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US		

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

Mandatory Indicators	Smart-UPS Modular Ultra On-Line - SRYL15K15RMXLT							
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
Impact indicators			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	2.96E+04	3.02E+03	3.95E+01	2.82E+01	2.63E+04	1.57E+02	-6.91E+02
Contribution to climate change-fossil	kg CO2 eq	2.95E+04	3.01E+03	3.95E+01	3.60E+01	2.63E+04	1.56E+02	-6.83E+02
Contribution to climate change-biogenic	kg CO2 eq	3.16E+01	1.11E+01	0*	0*	2.78E+01	5.33E-01	-8.19E+00
Contribution to climate change-land use and land use change	kg CO2 eq	6.45E-04	6.37E-04	0*	1.11E-07	0*	8.77E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.37E-03	1.22E-03	3.48E-05	5.98E-07	1.12E-04	2.80E-06	-1.06E-04
Contribution to acidification	mol H+ eq	1.63E+02	2.31E+01	1.72E-01	7.59E-02	1.39E+02	7.83E-01	-4.77E+00
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	6.16E-01	5.56E-01	0*	1.60E-04	4.06E-02	1.87E-02	-1.77E-03
Contribution to eutrophication marine	kg N eq	2.05E+01	3.70E+00	7.88E-02	1.96E-02	1.66E+01	1.12E-01	-4.06E-01
Contribution to eutrophication, terrestrial	mol N eq	2.28E+02	3.12E+01	8.54E-01	1.77E-01	1.94E+02	1.26E+00	-4.58E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.60E+01	1.03E+01	2.80E-01	5.74E-02	5.49E+01	4.25E-01	-1.61E+00
Contribution to resource use, minerals and metals	kg Sb eq	5.72E-01	5.70E-01	0*	0*	1.06E-03	5.38E-04	-1.45E-01
Contribution to resource use, fossils	MJ	6.10E+05	3.96E+04	4.79E+02	7.80E+02	5.59E+05	1.00E+04	-1.33E+04
Contribution to water use	m3 eq	1.74E+04	1.63E+04	2.00E+00	7.37E+00	9.45E+02	1.16E+02	-2.76E+02

Inventory flows Indicators			Smart-UPS Modular Ultra On-Line - SRYL15K15RMXLT					
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	7.11E+04	9.85E+02	0*	6.81E+01	7.01E+04	1.31E+01	-1.37E+02
Contribution to use of renewable primary energy resources used as raw material	MJ	5.12E+02	5.12E+02	0*	0*	0*	0*	-2.03E+02
Contribution to total use of renewable primary energy resources	MJ	7.17E+04	1.50E+03	0*	6.81E+01	7.01E+04	1.31E+01	-3.40E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.09E+05	3.90E+04	4.79E+02	7.80E+02	5.59E+05	1.00E+04	-1.32E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	6.42E+02	6.42E+02	0*	0*	0*	0*	-5.75E+01
Contribution to total use of non-renewable primary energy resources	MJ	6.10E+05	3.96E+04	4.79E+02	7.80E+02	5.59E+05	1.00E+04	-1.33E+04
Contribution to use of secondary material	kg	7.40E-02	7.40E-02	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	4.05E+02	3.79E+02	4.66E-02	1.72E-01	2.20E+01	3.01E+00	-6.43E+00
Contribution to hazardous waste disposed	kg	2.14E+04	2.08E+04	0*	0*	5.15E+02	1.42E+02	-1.15E+04
Contribution to non hazardous waste disposed	kg	5.66E+03	1.71E+03	0*	4.05E+01	3.89E+03	2.50E+01	-8.82E+02
Contribution to radioactive waste disposed	kg	1.73E+00	9.84E-01	7.85E-03	4.18E-03	7.33E-01	1.57E-03	-4.28E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	6.63E+01	0*	0*	1.22E+01	0*	5.40E+01	0.00E+00
Contribution to materials for energy recovery	kg	7.06E-07	7.06E-07	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.18E+01	3.38E+00	0*	8.46E+00	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

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

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.

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Verifier accreditation N°		Supplemented by	PSR-0010-ed2-EN-2023 12 08					
Date of issue	2024/02/27	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)								
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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