## **Product Environmental Profile**

**Metered Rack Power Distribution Units (PDUs)** 

Metered, rack mounted PDUs that monitor their outlets and protects against power surges.

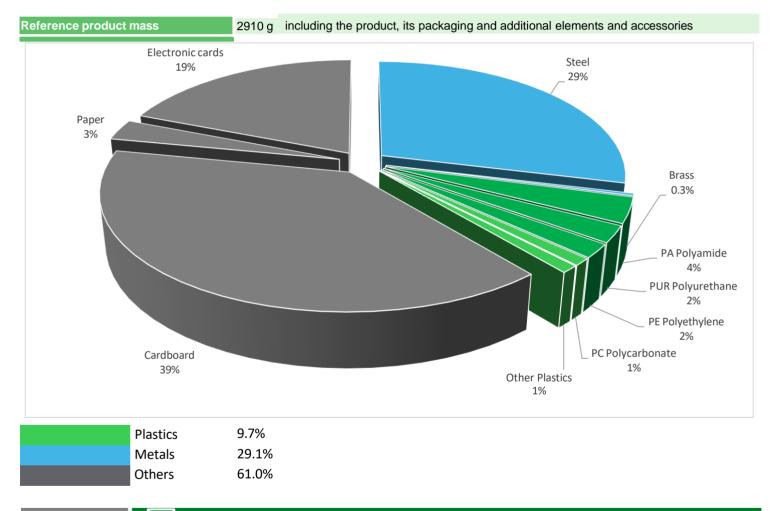






Representative product	Metered Rack Power Distribution Units (PDUs) - AP7800				
Description of the product	A stand-alone, network-manageable power distribution device that monitors the total current drawn from its power outlets and protects from power surges.				
	Metered, rack mounted PDUs that monitor their outlets and protects against power surges.				
Description of the range	The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.				
Products covered	AP78XX and AP88XX Series				
Functional unit	Establish, support and interrupt for 10 years rated currents in normal conditions of the circuit characterized by the current 12/15A, for the operating voltage 100/120V, across 8 sockets.				

## Constituent materials



## **E** | Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorized proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>

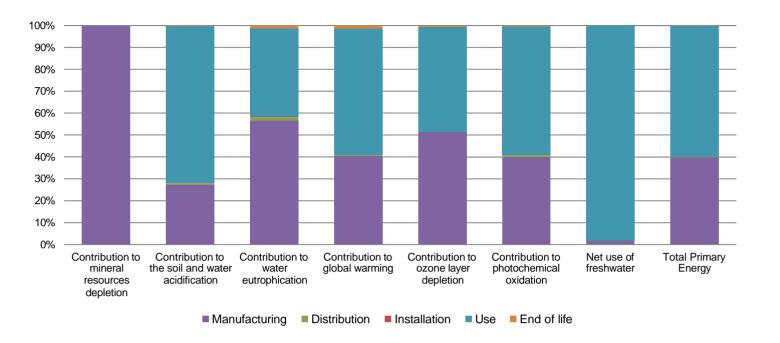


The Metered Rack Power Distribution Units (PDUs) presents the following relevant environmental aspects						
Manufacturing	Manufactured at a production site complying with the regulations					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 1248.3 g, consisting of cardboard (93%), nylon (7%) and other plastics (1%)					
	Product distribution optimized by setting up local distribution centers					
Installation	The product does not require any special installation materials or operations. Installation is to be performed by qualified personnel.					
Use	The product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials					
	This product contains lithium metal coil coin battery (3g), electronic cards (406g), external electric cable (150g) that should be separated from the stream of waste so as to optimize end-of-life treatment.					
End of life	The location of these components and other recommendations are given in the End-of-Life Instruction document which is available on the Schneider-Electric Green Premium website					
	http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page					
	Based on "ECO'DEEE recyclability and recoverability calculation method"  Recyclability potential: 53% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).					



Reference lifetime	10 years					
Product category	Combination of functions					
Installation elements	Transportation and disposal of packaging are accounted for during installation. No special installation components needed.					
Use scenario	Testing profile indicates an average loss of 0.952W and average annual consumption of 8.3kWh					
Geographical representativeness	The product can be used in all regions, but the majority of the product is deployed in Europe					
Technological representativeness	The means of material production, processing and transport modeled are representative of the technologies used in production.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: India	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27		

Compulsory indicators	Metered Rack Power Distribution Units (PDUs) - AP7800						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.43E-03	6.43E-03	0*	0*	3.55E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	2.38E-01	6.48E-02	1.71E-03	2.97E-04	1.70E-01	7.46E-04
Contribution to water eutrophication	kg PO <sup>3-</sup> eq	2.56E-02	1.45E-02	3.95E-04	9.92E-05	1.03E-02	3.29E-04
Contribution to global warming	kg CO <sub>2</sub> eq	7.09E+01	2.87E+01	3.75E-01	7.18E-02	4.09E+01	9.65E-01
Contribution to ozone layer depletion	kg CFC11 eq	5.55E-06	2.85E-06	7.61E-10	0*	2.66E-06	3.59E-08
Contribution to photochemical oxidation	kg C₂H₄ eq	1.59E-02	6.37E-03	1.22E-04	2.23E-05	9.37E-03	6.58E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.51E+02	2.64E+00	0*	0*	1.48E+02	0*
Total Primary Energy	MJ	1.37E+03	5.47E+02	5.31E+00	9.22E-01	8.16E+02	3.32E+00



Optional indicators	Metered Rack Power Distribution Units (PDUs) - AP7800						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.15E+02	3.42E+02	5.27E+00	9.46E-01	4.64E+02	3.10E+00
Contribution to air pollution	m³	4.90E+03	3.10E+03	1.60E+01	3.49E+00	1.76E+03	2.38E+01
Contribution to water pollution	m³	5.35E+03	3.54E+03	6.17E+01	1.06E+01	1.69E+03	4.54E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.33E-01	3.33E-01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.22E+02	1.81E+01	0*	0*	1.04E+02	0*
Total use of non-renewable primary energy resources	MJ	1.25E+03	5.29E+02	5.30E+00	9.19E-01	7.12E+02	3.31E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.80E+01	0*	0*	0*	1.04E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.39E+01	2.39E+01	0*	0*	0*	0*
Use of non-renewable primary energy excluding non-renewable primary energy used as raw material	MJ	1.23E+03	5.10E+02	5.30E+00	9.19E-01	7.12E+02	3.31E+00
Use of non-renewable primary energy resources used as raw material	MJ	1.91E+01	1.91E+01	0*	0*	0*	0*
Use of non-renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1.32E+01	1.02E+01	0*	0*	2.13E-02	3.07E+00
Non hazardous waste disposed	kg	1.94E+02	4.17E+01	0*	8.27E-02	1.52E+02	0*
Radioactive waste disposed	kg	1.10E-01	7.98E-03	0*	0*	1.02E-01	2.06E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.31E+00	2.29E-01	0*	1.18E+00	0*	9.08E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.48E-01	0*	0*	0*	0*	2.48E-01
Exported Energy	MJ	3.65E-03	3.43E-04	0*	3.31E-03	0*	0*

<sup>\*</sup> Represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.7.0.4, database version 2018-03 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

The environmental indicators of other products in this family may be proportional extrapolated based on relationships between an amount of a key parameter of the product as compared to the amount of that key parameter within the reference product. Proportionality rules are based on the following key parameters: Manufacturing phase impacts - total mass of product. Distribution phase impacts - total mass of product (including packaging). Installation phase impacts - mass of packaging. Use phase impacts - life time energy use. End of Life impacts - the product mass (excluding packaging).

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.

Document in compliance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental

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			Supplemented by	PSR-0005-ed2-EN-2016 03 29		
			Information and reference documents	www.pep-ecopassport.org		
Date of issue		12/2018	Validity period	5 years		
Independent ver	rification of	the declaration and data, in co	ompliance with ISO 14025: 2010			
Internal X External						
The PCR review	/ was cond	ucted by a panel of experts ch	aired by Philippe Osset (SOLINNEN)			
PEP is complian	nt with XP C	08-100-1 :2014				
The elements of	f the preser	nt PEP cannot be compared w	ith elements from another program.			

Drafting rules

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Schneider Electric Industries SAS

declarations »

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