

Product Environmental Profile

EasyLogic PCSU 100A Rack Module





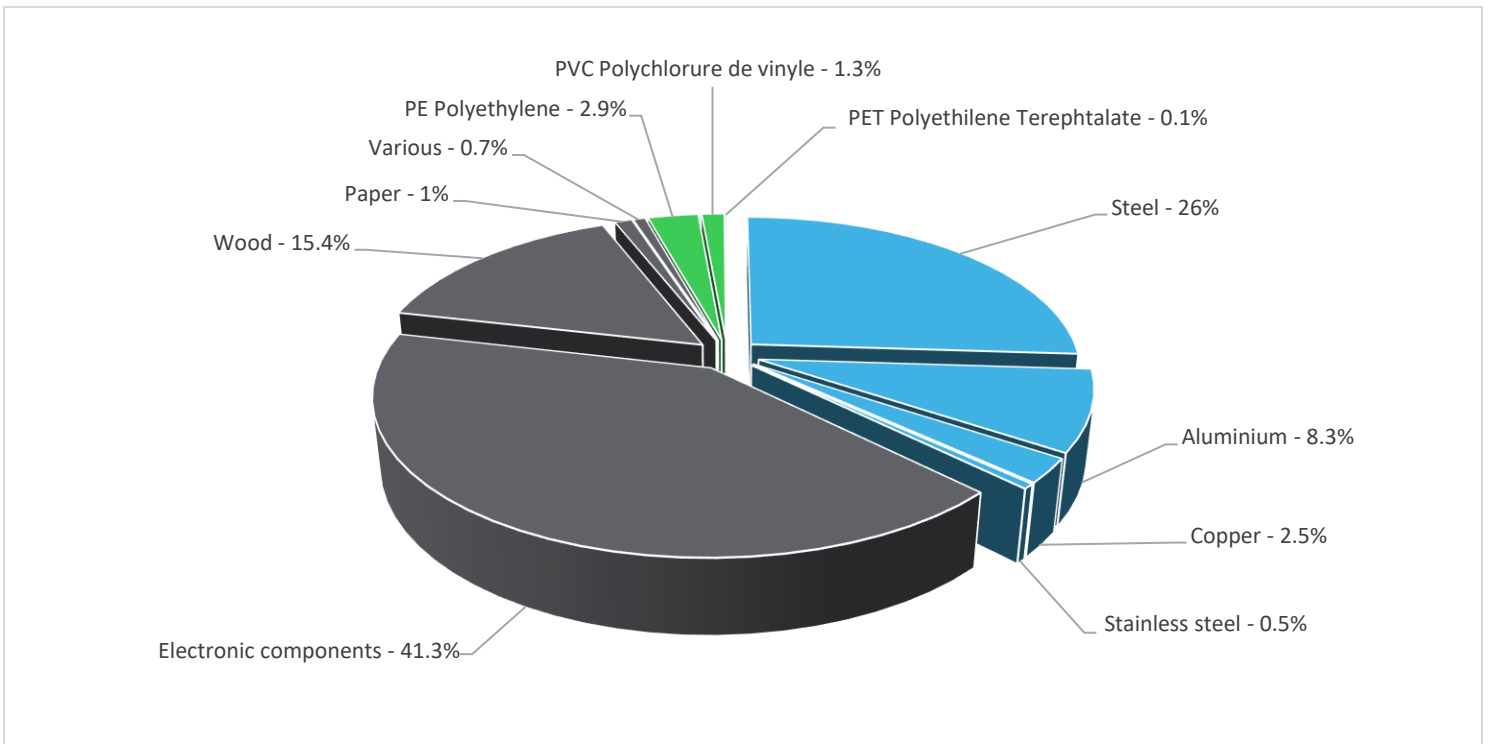
General information

Representative product	EasyLogic PCSU 100A Rack Module - PCSU100R400
Description of the product	APF is a new power electronic device used for harmonic suppression and reactive power compensation.
Functional unit	<p>The device needs to provide power supply to compensate the harmonics of the main circuit. Its application can overcome the shortcomings of traditional harmonic suppression and reactive power compensation methods such as filter, and realize dynamic tracking compensation. The function unit is accordance with the following technical data:</p> <ul style="list-style-type: none"> -IP 20 -Standard RMS output current ratings: 100A -Nominal voltage: 400 VAC, +15%~ -40% -Connection type: 3P4W, 3P3W, 3P4W -Power electronics: 3-level IGBT -Standards & Certification: EN 61000-6-2, EN 61000-6-4, ISO 9001; IEEE519; JBT 11067-2011



Constituent materials

Reference product mass	51041.5 g including the product, its packaging and additional elements and accessories
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Plastics	4.3%
Metals	37.3%
Others	58.4%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The EasyLogic PCSU 100A Rack Module presents the following relevant environmental aspects

Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 10041.5 g, consisting of Paper(4.99%), PE(14.93%), PET(0.29%), Wood(79.66%), Montmorillonite(0.13%) Product distribution optimised by setting up local distribution centres
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Electronic card (20260g) that should be separated from the stream of waste so as to optimize end-of-life treatment. 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 Recyclability potential: 50% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

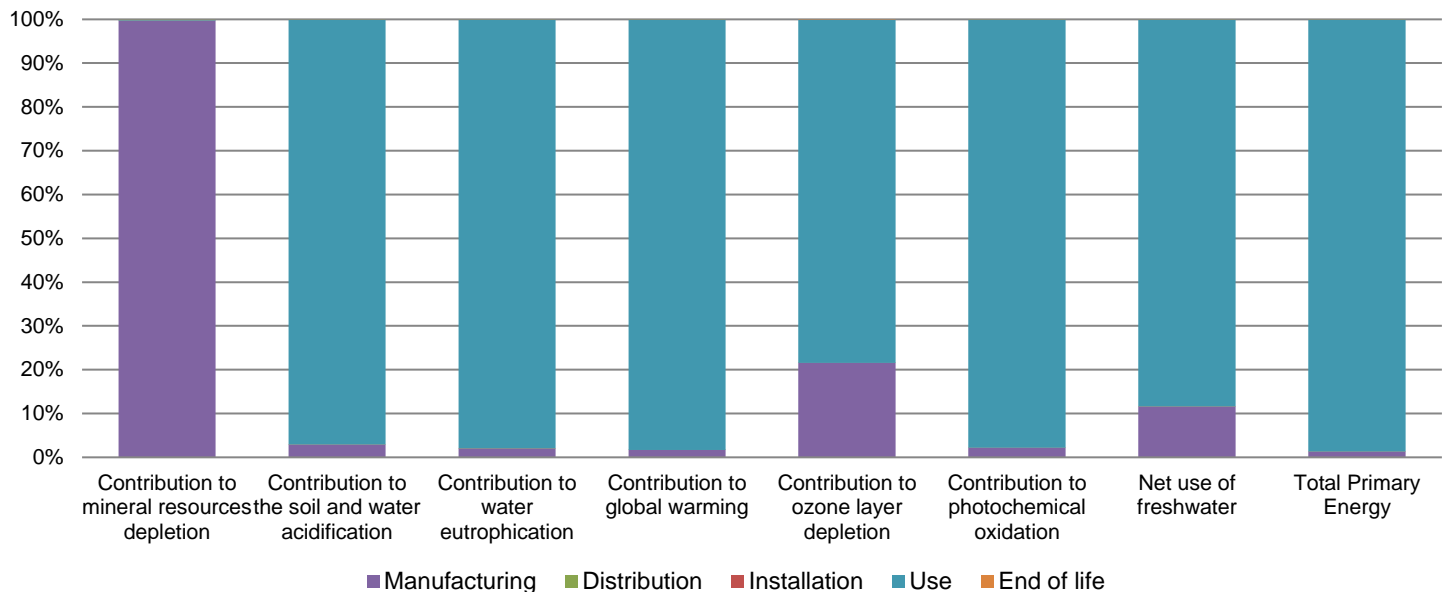
Reference life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special components needed			
Use scenario	The product is in active mode 90% of the time with a power use of 1940W and in stand-by mode 10% of the time with a power use of 28W, for 10 years.			
Geographical representativeness	China			
Technological representativeness	APF is a new power electronic device used for harmonic suppression and reactive power compensation.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators

EasyLogic PCSU 100A Rack Module - PCSU100R400

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.77E-01	2.76E-01	0*	0*	6.84E-04	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.74E+02	5.04E+00	3.01E-02	0*	1.69E+02	2.16E-02
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	4.55E+01	9.21E-01	6.93E-03	0*	4.46E+01	1.08E-02
Contribution to global warming	kg CO ₂ eq	1.59E+05	2.70E+03	0*	0*	1.56E+05	3.41E+01
Contribution to ozone layer depletion	kg CFC11 eq	1.58E-03	3.42E-04	0*	0*	1.24E-03	1.22E-06
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2.04E+01	4.43E-01	2.15E-03	0*	2.00E+01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.97E+02	2.28E+01	0*	0*	1.74E+02	0*
Total Primary Energy	MJ	2.58E+06	3.32E+04	0*	0*	2.55E+06	0*

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Optional indicators		EasyLogic PCSU 100A Rack Module - PCSU100R400					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.38E+06	2.82E+04	0*	0*	2.35E+06	0*
Contribution to air pollution	m ³	1.64E+07	2.50E+05	0*	0*	1.62E+07	0*
Contribution to water pollution	m ³	7.98E+06	2.24E+05	1.08E+03	0*	7.75E+06	1.46E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.49E+00	5.49E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.32E+05	1.28E+03	0*	0*	1.31E+05	0*
Total use of non-renewable primary energy resources	MJ	2.45E+06	3.20E+04	0*	0*	2.42E+06	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.32E+05	1.10E+03	0*	0*	1.31E+05	0*
Use of renewable primary energy resources used as raw material	MJ	1.76E+02	1.76E+02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.45E+06	3.17E+04	0*	0*	2.42E+06	0*
Use of non renewable primary energy resources used as raw material	MJ	2.95E+02	2.95E+02	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	8.45E+03	3.34E+03	0*	0*	5.02E+03	8.43E+01
Non hazardous waste disposed	kg	2.89E+04	6.43E+02	0*	0*	2.83E+04	0*
Radioactive waste disposed	kg	1.26E+00	3.31E-01	1.67E-04	0*	9.31E-01	6.24E-04
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.28E+01	2.89E+00	0*	8.90E+00	0*	2.10E+01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	9.26E+00	0*	0*	0*	0*	9.26E+00
Exported Energy	MJ	2.69E-02	2.53E-03	0*	2.44E-02	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2022-01 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).

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	ENVPEP2203007_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	07/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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