

Product Environmental Profile

External power supply module 200 – 240 V AC- 24 V - 1 A

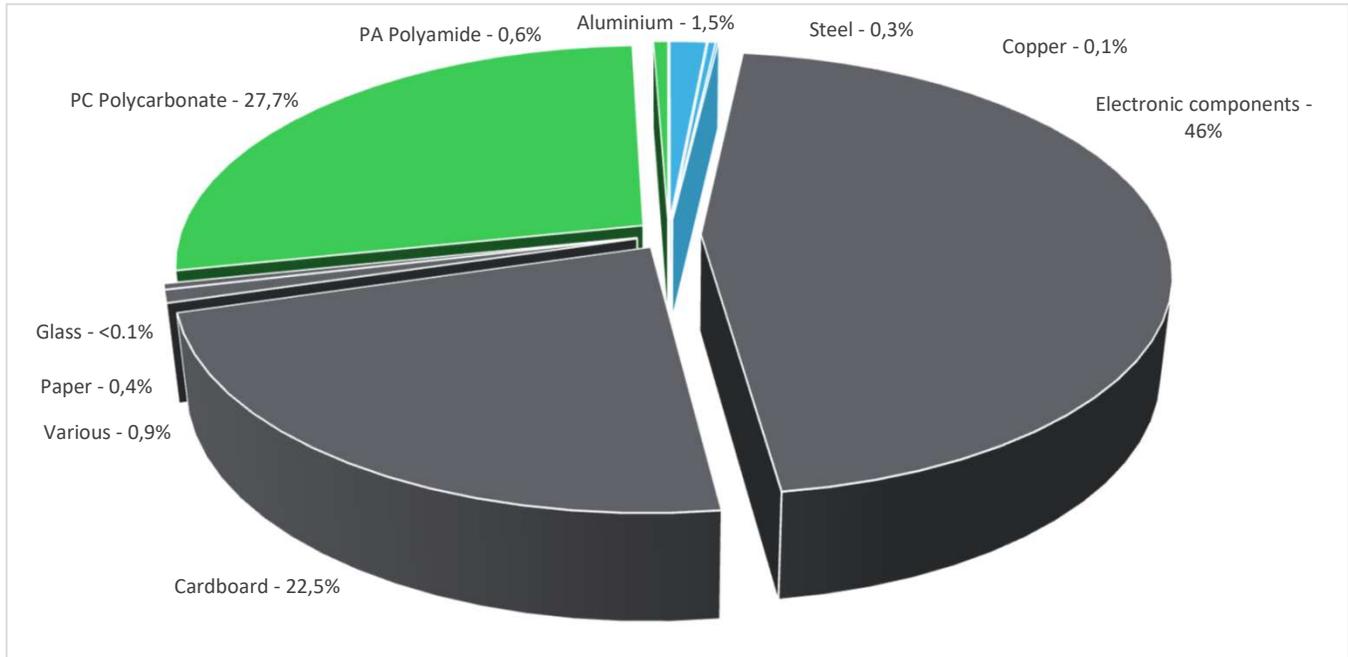


General information

Representative product	External power supply module 200 – 240 V AC- 24 V - 1 A - LV454444
Description of the product	The product is an external DC power supply module. Its function is to provide the DC voltage necessary to power on the electronic trip units. These compact electronic switch mode power supplies provide a quality of output current that is suitable for the loads supplied and compatible with: - Compact NS circuit breaker - Masterpact NW circuit breaker - Masterpact MT Circuit Breaker - Masterpact NT circuit breaker - Compact NSX circuit breaker - PowerPact Multistandard circuit breaker - Masterpact MTZ1 circuit breaker - Masterpact MTZ2 circuit breaker - Masterpact MTZ3 circuit breaker - PowerPact H circuit breaker - PowerPact J circuit breaker - PowerPact L circuit breaker - PowerPact P circuit breaker - PowerPact R circuit breaker
Additional similar product references	LV454440; LV454441; LV454442; LV454443 The environmental impacts of this referent product are representative of the impacts of the other products of the range which are developed with a similar technology. The referent product is the most impacting of its range according to its energy consumption and mass. heaviest
Functional unit	To ensure service continuity of electronic trip unit of an electrical system for 10 years at a 33% use rate, in accordance with the relevant standards.

Constituent materials

Reference product mass 360 g including the product, its packaging and additional elements and accessories



Plastics	28,3%
Metals	1,9%
Others	69,8%

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 authorised 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

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

Additional environmental information

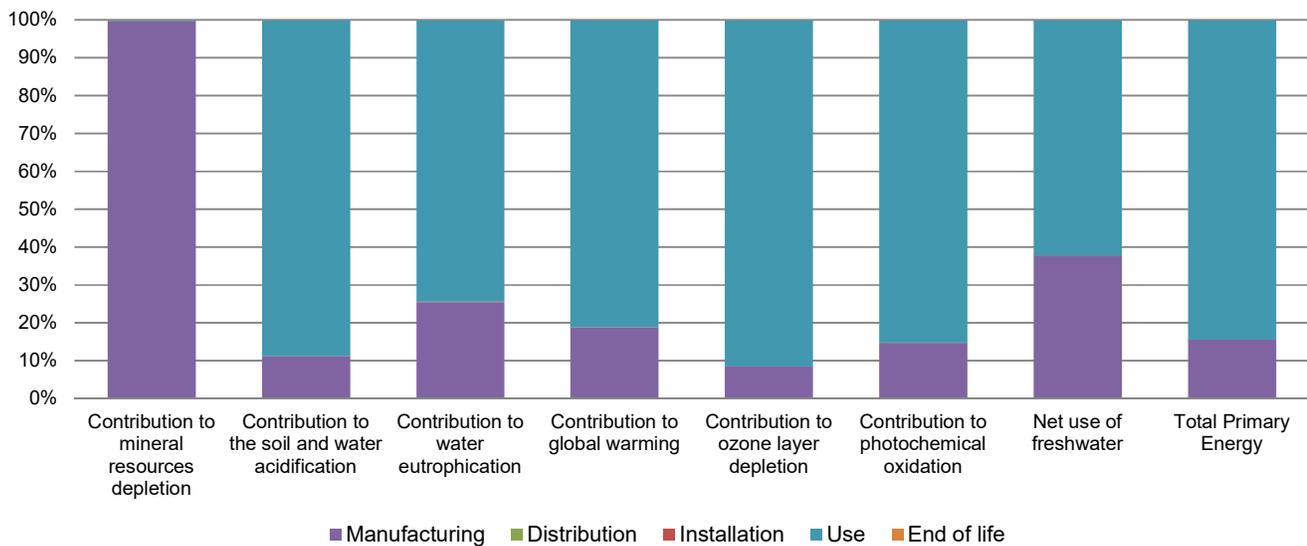
The External power supply module 200 – 240 V AC- 24 V - 1 A presents the following relevant environmental aspects

Design	Schneider Electric is committed to tackle climate change. All new products are eco-designed: reduction of power consumption and improvement of end of life management. For more details on our sustainability initiatives: https://sdreport.se.com/en
Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 82,6 g, consisting of Cardboard (100%) Product distribution optimised by setting up local distribution centres
Installation	No specific requirements
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 No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: 74% 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			
Installation elements	No special components needed			
Geographical representativeness	Worldwide			
Technological representativeness	The product is an external DC power supply module. Its function is to provide the DC voltage necessary to power on the electronic trip units. These compact electronic switch mode power supplies provide a quality of output current that is suitable for the loads supplied and compatible with: - Compact NS circuit breaker - Masterpact NW circuit breaker - Masterpact MT Circuit Breaker - Masterpact NT circuit breaker - Compact NSX circuit breaker - PowerPact Multistandard circuit breaker - Masterpact MTZ1 circuit breaker - Masterpact MTZ2 circuit breaker - Masterpact MTZ3 circuit breaker - PowerPact H circuit breaker - PowerPact J circuit breaker - PowerPact L circuit breaker - PowerPact P circuit breaker - PowerPact R circuit breaker			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		External power supply module 200 – 240 V AC- 24 V - 1 A - LV454444					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7,58E-04	7,56E-04	0*	0*	1,69E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2,95E-01	3,28E-02	2,12E-04	0*	2,62E-01	8,11E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	3,64E-02	9,27E-03	4,88E-05	4,52E-06	2,70E-02	1,98E-05
Contribution to global warming	kg CO ₂ eq	1,20E+02	2,25E+01	4,64E-02	0*	9,72E+01	2,96E-02
Contribution to ozone layer depletion	kg CFC11 eq	8,24E-06	6,98E-07	0*	0*	7,54E-06	1,77E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2,30E-02	3,39E-03	1,51E-05	0*	1,96E-02	8,67E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,64E-01	1,00E-01	0*	0*	1,64E-01	3,30E-05
Total Primary Energy	MJ	2,04E+03	3,18E+02	6,57E-01	0*	1,72E+03	4,05E-01



Optional indicators		External power supply module 200 – 240 V AC- 24 V - 1 A - LV454444					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,71E+03	3,20E+02	6,53E-01	0*	1,39E+03	3,69E-01
Contribution to air pollution	m ³	1,09E+04	2,34E+03	1,98E+00	0*	8,56E+03	2,87E+00
Contribution to water pollution	m ³	6,71E+03	2,15E+03	7,64E+00	6,78E-01	4,55E+03	3,15E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7,63E-02	7,63E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8,58E+01	1,35E+01	0*	0*	7,23E+01	0*
Total use of non-renewable primary energy resources	MJ	1,95E+03	3,04E+02	6,56E-01	0*	1,65E+03	4,04E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8,55E+01	1,32E+01	0*	0*	7,23E+01	0*
Use of renewable primary energy resources used as raw material	MJ	2,42E-01	2,42E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,95E+03	2,99E+02	6,56E-01	0*	1,65E+03	4,04E-01
Use of non renewable primary energy resources used as raw material	MJ	4,74E+00	4,74E+00	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	4,33E+01	3,92E+01	0*	0*	3,78E+00	3,54E-01
Non hazardous waste disposed	kg	1,11E+02	6,83E+00	0*	0*	1,04E+02	0*
Radioactive waste disposed	kg	7,91E-02	2,28E-03	0*	0*	7,68E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,07E-01	2,14E-02	0*	8,07E-02	0*	2,05E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,19E-03	0*	0*	0*	0*	1,19E-03
Exported Energy	MJ	2,56E-04	2,41E-05	0*	2,32E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.7.03, database version 2016-11 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	ENVPEP1807016_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	07/2018		
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data			
Internal	X	External	
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 - Self-declared environmental claims (Type II environmental labelling) »			

Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

www.schneider-electric.com

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