Product Environmental Profile

24VDC POWER SUPPLY AD MODULE 200/240 VAC









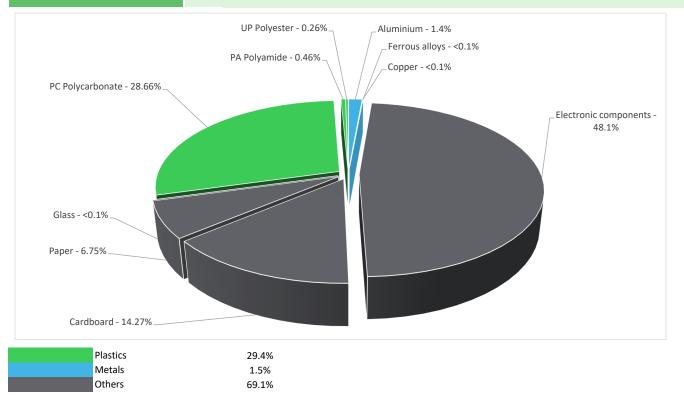
General information

Reference product	24VDC POWER SUPPLY AD MODULE 200/240 VAC - 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 R circuit breaker
Functional unit	To ensure service continuity of electronic trip unit of an electrical system for 10 years at a 34% use rate, in accordance with the relevant standards.

Constituent materials

Reference product mass

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



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/

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Additional environmental information

End Of Life

Recyclability potential:

20/

Recyclability rate has been calculated based on REECCY'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).

Environmental impacts

Reference service life time	10 years						
Product category	Other equipments - Active product						
Installation elements	No special components needed						
Use scenario	24VDC POWER SUPPLY AD MODULE 200/240 VAC will in activce phase 34 % of the time with 4.2W power consumption and in Off Phase 66% during 10 years of lifetime.						
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	Europe						
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27			

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			24VDC POWER SUPPLY AD MODULE 200/240 VAC - LV454444					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
impact muicators			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	6.18E+01	9.74E+00	5.92E-02	1.47E-01	5.13E+01	6.05E-01	-1.06E-01
Contribution to climate change-fossil	kg CO2 eq	6.17E+01	9.71E+00	5.92E-02	1.41E-01	5.12E+01	5.88E-01	-1.21E-01
Contribution to climate change-biogenic	kg CO2 eq	1.18E-01	2.59E-02	0*	6.55E-03	6.84E-02	1.76E-02	1.49E-02
Contribution to climate change-land use and land use change	e kg CO2 eq	7.84E-09	7.16E-09	0*	0*	0*	6.79E-10	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.35E-06	4.10E-06	0*	9.76E-09	2.19E-07	2.33E-08	-6.81E-09
Contribution to acidification	mol H+ eq	3.50E-01	4.76E-02	3.95E-04	5.85E-04	2.93E-01	8.92E-03	-6.70E-04
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	1.65E-04	1.62E-05	2.22E-08	1.06E-06	1.40E-04	7.62E-06	-8.90E-07
Contribution to eutrophication marine	kg N eq	5.05E-02	1.05E-02	1.86E-04	1.55E-04	3.32E-02	6.42E-03	-1.04E-04
Contribution to eutrophication, terrestrial	mol N eq	5.86E-01	8.02E-02	2.04E-03	1.17E-03	4.99E-01	2.97E-03	-8.34E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.34E-01	2.49E-02	5.18E-04	3.12E-04	1.07E-01	1.21E-03	-2.16E-04
Contribution to resource use, minerals and metals	kg Sb eq	7.46E-04	7.42E-04	0*	0*	3.71E-06	0*	-2.89E-07
Contribution to resource use, fossils	MJ	1.56E+03	2.47E+02	8.24E-01	1.53E+00	1.31E+03	3.52E+00	-8.67E-01
Contribution to water use	m3 eq	1.21E+02	4.55E+00	0*	6.29E-02	1.81E+00	1.15E+02	-2.54E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators	ors 24VDC POWER SUPPLY AD MODULE 200/240 VAC - LV454444							
			Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
Inventory flows	Unit	Total	[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	2.61E+02	9.79E+00	0*	1.10E-01	2.51E+02	5.01E-01	4.22E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	3.28E-01	3.28E-01	0*	0*	0*	0*	-3.49E-01
Contribution to total use of renewable primary energy resources	MJ	2.62E+02	1.01E+01	0*	1.10E-01	2.51E+02	5.01E-01	7.30E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.55E+03	2.42E+02	8.24E-01	1.53E+00	1.31E+03	3.52E+00	-8.67E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.08E+00	5.08E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.56E+03	2.47E+02	8.24E-01	1.53E+00	1.31E+03	3.52E+00	-8.67E-01
Contribution to use of secondary material	kg	7.12E-02	7.12E-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	3.16E+00	1.06E-01	0*	1.47E-03	4.22E-02	3.01E+00	-5.91E-04
Contribution to hazardous waste disposed	kg	4.01E+01	3.88E+01	0*	0*	9.58E-01	3.06E-01	-1.14E-02
Contribution to non hazardous waste disposed	kg	1.53E+01	7.34E+00	2.07E-03	4.80E-01	7.38E+00	1.23E-01	-1.23E+00
Contribution to radioactive waste disposed	kg	6.19E-02	6.03E-02	0*	6.44E-05	1.54E-03	0*	-1.52E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	8.65E-02	0*	0*	8.10E-02	0*	5.50E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	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

 $^{^{\}star}$ 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

For all the impact indicators, The Use stage is the greatest contributor due to the energy losses occuring throughout the product reference service lifetime except the Climate change-Land use and land use change (GWPlu), Ozone depletion (ODP),Resource use, minerals and metals(ADPe) and Water Use(WU) stages. The manufacturing stage is the main contributor on Climate change-Land use and land use change (GWPlu), Ozone depletion (ODP),Resource use, minerals and metals(ADPe) stages. The End Of Life stage is the main contributor on Water use (WU).

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°	VH08	Supplemented by	PSR-0005-ed2-2016 03 29			
Date of issue	11/2023	Information and reference documents	www.pep-ecopassport.org			
		Validity period	5 years			
Independent verification of the declaration and data, in compliance with ISO 14025: 2010						

Internal External X

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 14025: 2010 « Environmental labels and declarations. Type III environmental declarations »



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