Product Environmental Profile

ABL8MEM ••••• Regulated switch mode power supply





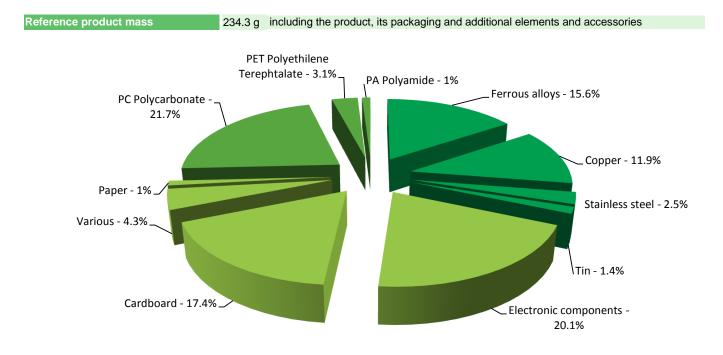




General information

Representative product	ABL8MEM•••• Regulated switch mode power supply - ABL8MEM24012						
Description of the product	Reference product is a regulated switch mode power supply - 1 or 2-phase - 100240 V AC - 24 V - 1.2 A						
Description of the range	Product range consists in regulated switch mode power supplies 1 or 2-phase - 100240 V AC - 5V to 24V - 0.3A to 4A						
	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 convert 0.88 kW per day at nominal load from 100/240V AC input to Safety Extra Low Voltage DC output (from 5V to 24V) 100% of the time active for 10 years						

Constituent materials



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 <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-pr

Additional environmental information

The ABL	.8MEM•••• Regulated switch mode power supply	resents the following relevent environmental aspects				
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
Distribution	Weight and volume of the packaging optimized, I	based on the European Union's packaging directive				
Distribution	Packaging weight is 43.1 g, consisting of cardboa	ard (94,40%) and paper (5,60%)				
Use	The product does not require special maintenance	e operations				
	End of life optimized to decrease the amount of v	vaste and allow recovery of the product components and materials				
	This product contains electronic card (111g) and electrolytic capacitor (11,50g) 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					
	Recyclability potential: 25% (version	on "ECO'DEEE recyclability and recoverability calculation method" n V1, 20 Sep. 2008 presented to the French Agency for Environment ergy Management: ADEME)				

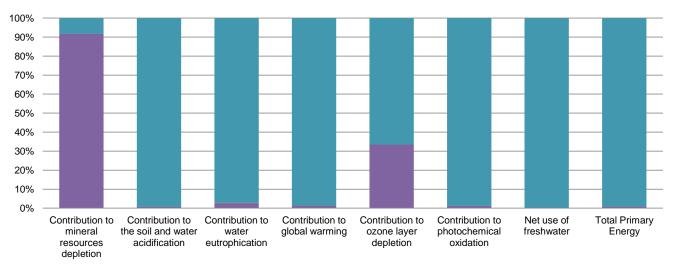
Provision Environmental impacts

Reference life time	10 years					
Installation elements	No special components needed					
Use scenario	The dissipated power (losses) depends on the conditions under which the product is implemented and used The dissipated power is 6.6 W on active mode (nominal power) This thermal dissipation represents less than 18% of the power which passes through the product in active mode					
Geographical representativeness	Europe					
Technological representativeness	Reference product is a regulated switch mode power supply - 1 or 2-phase - 100240 V AC - 24 V - 1.2 A					
	Manufacturing Installation Use End of life					
Energy model used	Energy model used: China	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	ABL8MEM	•• Regulated swite	ch mode powe	r supply - AB	L8MEM2401	2	
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,98E-04	2,73E-04	0*	0*	2,46E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,19E+00	8,75E-03	1,38E-04	0*	1,18E+00	0*
Contribution to water eutrophication	kg PO4 ³⁻ eq	7,34E-02	1,89E-03	3,18E-05	1,18E-04	7,13E-02	4,90E-05
Contribution to global warming	$kg CO_2 eq$	2,87E+02	3,84E+00	3,02E-02	6,17E-02	2,83E+02	1,53E-01

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Contribution to ozone layer depletion	kg CFC11 eq	2,77E-05	9,28E-06	0*	0*	1,85E-05	5,80E-09
Contribution to photochemical oxidation	$kg \ C_2 H_4 \ eq$	6,58E-02	8,22E-04	9,85E-06	1,49E-05	6,49E-02	8,16E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1,03E+03	0*	0*	0*	1,03E+03	0*
Total Primary Energy	MJ	5,70E+03	4,62E+01	0*	0*	5,66E+03	0*



Manufacturing Distribution Installation Use End of life

Optional indicators		ABL8MEM	 Regulated switc 	ch mode powe	r supply - AB	L8MEM2401	2
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3,26E+03	4,73E+01	4,25E-01	0*	3,22E+03	4,00E-01
Contribution to air pollution	m³	1,27E+04	4,92E+02	1,29E+00	0*	1,22E+04	3,04E+00
Contribution to water pollution	m³	1,24E+04	6,95E+02	4,97E+00	3,56E+00	1,17E+04	6,64E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7,54E-03	7,54E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7,21E+02	1,77E+00	0*	0*	7,19E+02	0*
Total use of non-renewable primary energy resources	MJ	4,98E+03	4,44E+01	0*	0*	4,94E+03	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,20E+02	9,35E-01	0*	0*	7,19E+02	0*
Use of renewable primary energy resources used as raw material	MJ	8,39E-01	8,39E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4,98E+03	4,17E+01	0*	0*	4,94E+03	0*
Use of non renewable primary energy resources used as raw material	MJ	2,75E+00	2,75E+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	4,90E+00	4,32E+00	0*	0*	1,48E-01	4,35E-01
Non hazardous waste disposed	kg	1,06E+03	5,62E-01	0*	0*	1,06E+03	0*
Radioactive waste disposed	kg	7,06E-01	3,34E-04	0*	0*	7,05E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5,31E-02	5,93E-03	0*	0*	0*	4,71E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*

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Materials for energy recovery	kg	4,50E-02	3,77E-03	0*	0*	0*	4,12E-02
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.6, database version 2016-11.

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 (out of "mineral resources depletion" and "ozone depletion" indicators) of other products in this range may be proportionally extrapolated by energy consumption values.

For "mineral resources depletion" indicator, impact may be proportionally extrapolated by mass of the product.

For "ozone depletion" indicator, impact may be 1/3 proportionally extrapolated by mass of the product, and 2/3 proportionally extrapolated by energy consumption values.

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 N°	SCHN-00203-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02			
Verifier accreditation N°	VH10	Supplemented by	PSR-0005-ed2-EN-2016 03 29			
Date of issue	04/2017	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	nternal External X					
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)						
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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SCHN-00203-V01.01-EN

Published by Schneider Electric

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04/2017