# **Product Environmental Profile**

#### VPS VOLTAGE POWER SUPPLY MODULE MICROLOGIC X

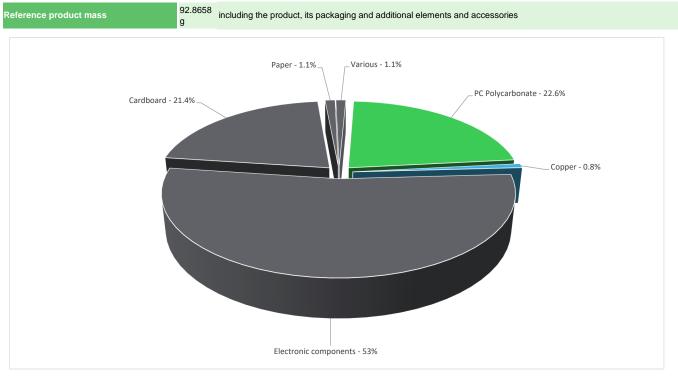






General information							
Reference product	VPS VOLTAGE POWER SUPPLY MODULE MICROLOGIC X - LV850060						
Description of the product	When the current is below 20 % of the rated current providing presence of three-phase or two-phase voltage downstream of the circuit breaker (circuit breaker closed), the VPS module ensures the operation and performance of MicroLogic X. The input voltage of the VPS module is limited to 600 V.Above 600 V it shall be supplied from an external voltage by means of the PTE option and voltage transformers. Presence of 24 V on VPS output is signaled by a green LED on the front face of the module.						
Functional unit	VPS module is provided as standard for MicroLogic X to perform earthleakage protection and the input voltage of the VPS module is limited to 600 V, during 10 years						

### Constituent materials



Plastics	22.6%
Metals	0.8%
Others	76.6%

#### Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <a href="https://www.se.com/ww/en/work/support/green-premium/">https://www.se.com/ww/en/work/support/green-premium/</a>

Additional environmental information						
End Of Life	Recyclability potential:	1%	Recyclability rate has been calculated based on REEECY'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).			

## $\mathcal{Q}$ Environmental impacts

Reference service life time	10 years						
Product category	Other equipments - Active product						
Installation elements	No special components needed						
Use scenario	The product is in active mode 100% of the time with a power use of 2.6W for 10 years.						
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						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	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			VPS VOLTAGE POWER SUPPLY MODULE MICROLOGIC X - LV850060					
luurent in directory	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
Impact indicators	Unit	Iotai	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.03E+02	9.96E+00	1.21E-02	3.80E-02	9.34E+01	1.32E-01	-1.54E-02
Contribution to climate change-fossil	kg CO2 eq	1.03E+02	9.95E+00	1.21E-02	3.63E-02	9.32E+01	1.27E-01	-1.55E-02
Contribution to climate change-biogenic	kg CO2 eq	1.39E-01	7.59E-03	0*	1.69E-03	1.25E-01	4.81E-03	1.15E-04
Contribution to climate change-land use and land use chan	ge kg CO2 eq	6.94E-09	4.35E-09	0*	0*	0*	2.59E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.71E-06	1.30E-06	0*	2.51E-09	3.99E-07	6.14E-09	-9.44E-10
Contribution to acidification	mol H+ eq	6.01E-01	6.57E-02	7.81E-05	1.51E-04	5.33E-01	2.37E-03	-1.90E-04
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	2.78E-04	1.48E-05	0*	2.74E-07	2.56E-04	7.15E-06	-1.45E-07
Contribution to eutrophication marine	kg N eq	6.92E-02	6.90E-03	3.67E-05	3.99E-05	6.05E-02	1.70E-03	-1.89E-05
Contribution to eutrophication, terrestrial	mol N eq	9.84E-01	7.32E-02	4.02E-04	3.01E-04	9.09E-01	7.85E-04	-1.60E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.19E-01	2.45E-02	1.02E-04	8.05E-05	1.94E-01	3.21E-04	-4.96E-05
Contribution to resource use, minerals and metals	kg Sb eq	1.71E-04	1.64E-04	0*	0*	6.76E-06	1.57E-07	-1.00E-06
Contribution to resource use, fossils	MJ	2.50E+03	1.19E+02	0*	3.95E-01	2.38E+03	9.19E-01	-1.33E-01
Contribution to water use	m3 eq	3.60E+01	2.26E+00	0*	1.62E-02	3.30E+00	3.04E+01	-1.37E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			VPS VOLTAGE POWER SUPPLY MODULE MICROLOGIC X - LV850060					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
	onit	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	4.61E+02	4.15E+00	0*	0*	4.57E+02	1.36E-01	7.23E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.18E-01	1.18E-01	0*	0*	0*	0*	-1.09E-01
Contribution to total use of renewable primary energy resources	MJ	4.61E+02	4.27E+00	0*	0*	4.57E+02	1.36E-01	-3.70E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.50E+03	1.18E+02	0*	3.95E-01	2.38E+03	9.19E-01	-1.33E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.05E+00	1.05E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.50E+03	1.19E+02	0*	3.95E-01	2.38E+03	9.19E-01	-1.33E-01
Contribution to use of secondary material	kg	1.65E-02	1.65E-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	9.26E-01	5.25E-02	0*	3.78E-04	7.69E-02	7.97E-01	-3.19E-04
Contribution to hazardous waste disposed	kg	2.62E+00	8.03E-01	0*	4.49E-04	1.74E+00	7.32E-02	-9.14E-02
Contribution to non hazardous waste disposed	kg	1.60E+01	2.40E+00	0*	1.24E-01	1.34E+01	2.30E-02	-1.81E-01
Contribution to radioactive waste disposed	kg	3.90E-03	1.07E-03	0*	1.66E-05	2.81E-03	1.24E-06	-9.29E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.16E-02	0*	0*	2.09E-02	0*	7.48E-04	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

\* 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

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The Use phase has the greatest impacts contribution on the majority of environmental indicators, except Climate change-Biogenic (PEF-GWPb), Ozone depletion(PEF-ODP), Resource use, minerals and metals(PEF-ADPe), & Water use (PEF-WU) this contribution is mainly due to the energy consumption throughout the product reference service lifetime.

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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