Product Environmental Profile

PrismaSeT HD Active

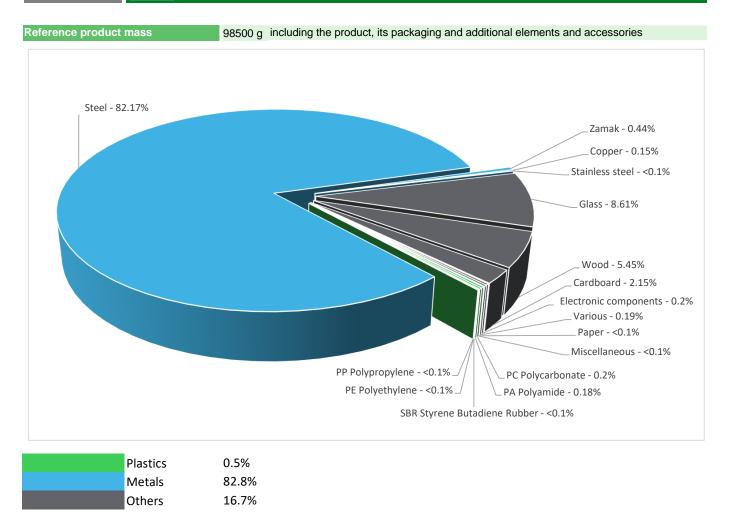## General information

Representative product	PrismaSeT HD Active - NSYSFP20750TEDA
Description of the product	PrismaSeT HD Active is the newest generation of low-voltage switchboards for harsh environments with optional built-in connectivity (connectivity available up to 4000 A). This revolutionary approach lets panel builders and electrical contractors give a voice to electrical distribution and be notified wherever they are. Commissioning is made faster, while smart alarms help optimize maintenance and improve uptime.
Functional unit	The equipped Enclosure Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure with the following dimensions H2000mm x W700mm x D500mm, while protecting against mechanical impacts (IK08-IEC 62262) and the penetration of solid objects and liquids (IP55- IEC 60529)

Also the PrismaSeT Wireless Panel Server is to send the critical alarms from the zigbee sensors over a Lora network to the end user.
Rated Voltage U (V): 230 VAC L-N
Rated current in continuous operation In(A): 0.001 A
Number of poles Np: 3
Standards: IEC 61010-2-201:2017; ETSI EN 300328 V2.1.1; EN 50081:2012 |

Constituent materials

Reference product mass	98500 g including the product, its packaging and additional elements and accessories

Steel - 82.17%
Zamak - 0.44%
Copper - 0.15%
Stainless steel - <0.1%
Glass - 8.61%
Wood - 5.45%
Cardboard - 2.15%
Electronic components - 0.2%
Various - 0.19%
Paper - <0.1%
Miscellaneous - <0.1%
PP Polypropylene - <0.1%
PC Polycarbonate - 0.2%
PE Polyethylene - <0.1%
PA Polyamide - 0.18%
SBR Styrene Butadiene Rubber - <0.1%

	Plastics	0.5%
	Metals	82.8%
	Others	16.7%

⊟ 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

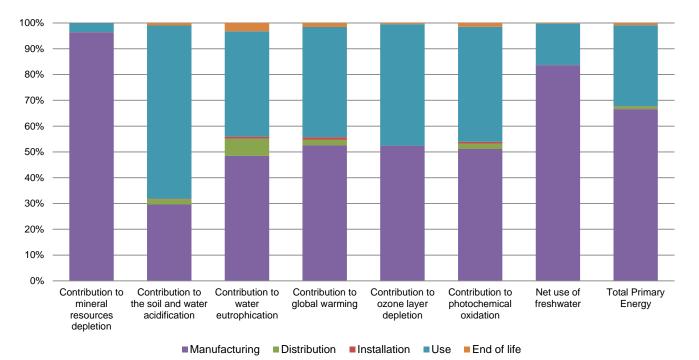## 🍃 Additional environmental information

The PrismaSeT HD Active presents the following relevent 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 7773.7 g, consisting of Wood (70.62%), Cardboard (27.92%), Paper (0.75%) and PE-LD (0.71%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal). Refer the manual to install DPAS LORA-Wireless panel server.
Use	DPAS LORA - WIRELESS PANEL SERVER of 1000 g have to be changed after 10 years
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 Dpas Lora PCBA Board (125.75g), Cable-Optical (50g), Cable-high current (140g) 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: **94%** 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	20 Years			
Product category	Combination of functions			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal and disposal of packaging accounted for during installation.			
Use scenario	Power disipation at 100% load rate is 2.3 W.			
Geographical representativeness	Europe			
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.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Assembly plant located in France	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		PrismaSeT HD Active - NSYSFP20750TEDA					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.64E-02	3.51E-02	0*	0*	1.30E-03	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.71E+00	8.01E-01	5.80E-02	3.52E-03	1.82E+00	2.70E-02
Contribution to water eutrophication	kg PO_4^{3-} eq	2.00E-01	9.71E-02	1.34E-02	1.60E-03	8.18E-02	6.42E-03
Contribution to global warming	kg CO_2 eq	5.82E+02	3.06E+02	1.27E+01	5.96E+00	2.49E+02	9.14E+00
Contribution to ozone layer depletion	kg CFC11 eq	1.26E-04	6.62E-05	2.57E-08	0*	5.96E-05	5.84E-07
Contribution to photochemical oxidation	kg C_2H_4 eq	1.95E-01	9.97E-02	4.14E-03	1.38E-03	8.70E-02	2.91E-03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.34E+00	3.63E+00	1.14E-03	1.58E-03	6.95E-01	1.09E-02
Total Primary Energy	MJ	1.58E+04	1.06E+04	1.80E+02	7.87E+00	4.97E+03	1.36E+02

Legend: ■ Manufacturing ■ Distribution ■ Installation ■ Use ■ End of life

Optional indicators		PrismaSeT HD Active - NSYSFP20750TEDA					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5.77E+03	2.92E+03	1.79E+02	7.30E+00	2.56E+03	1.09E+02
Contribution to air pollution	m³	8.85E+04	7.57E+04	5.41E+02	1.43E+02	1.12E+04	9.59E+02
Contribution to water pollution	m³	2.32E+04	8.14E+03	2.09E+03	8.09E+01	1.16E+04	1.23E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.47E+01	2.46E+01	0*	0*	8.90E-02	0*
Total use of renewable primary energy resources	MJ	4.58E+02	1.08E+02	2.39E-01	1.34E-01	3.50E+02	1.52E-01
Total use of non-renewable primary energy resources	MJ	1.54E+04	1.04E+04	1.79E+02	7.74E+00	4.62E+03	1.36E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.19E+02	0*	2.39E-01	1.34E-01	3.46E+02	1.52E-01
Use of renewable primary energy resources used as raw material	MJ	1.39E+02	1.35E+02	0*	0*	4.21E+00	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.53E+04	1.04E+04	1.79E+02	7.74E+00	4.61E+03	1.36E+02
Use of non renewable primary energy resources used as raw material	MJ	4.29E+01	2.89E+01	0*	0*	1.39E+01	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
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	2.70E+03	2.58E+03	0*	0*	8.02E+00	1.08E+02
Non hazardous waste disposed	kg	1.07E+03	1.68E+02	4.52E-01	4.44E+00	8.99E+02	4.18E-01
Radioactive waste disposed	kg	7.75E-01	4.64E-02	3.22E-04	1.57E-04	7.28E-01	6.48E-04
Other environmental information	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Materials for recycling	kg	9.21E+01	8.67E+00	0*	3.80E+00	4.72E-01	7.91E+01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.70E-01	0*	0*	0*	7.64E-02	9.40E-02
Exported Energy	MJ	3.78E+00	3.55E-01	0*	3.42E+00	6.75E-04	0*

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

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2016-11 in compliance with ISO14044.

The Use phase is impacting on Indicator of Acidification potential of soil and water (total average for Europe) and Water Pollution (WP for DHUP) and The Manufacturing phase is the life cycle phase which has the greatest impact on the rest 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 :	SCHN-00751-V01.02-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	01/2022	*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 Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2016

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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