

# Product Environmental Profile

## PanelSeT - Industrial metallic box

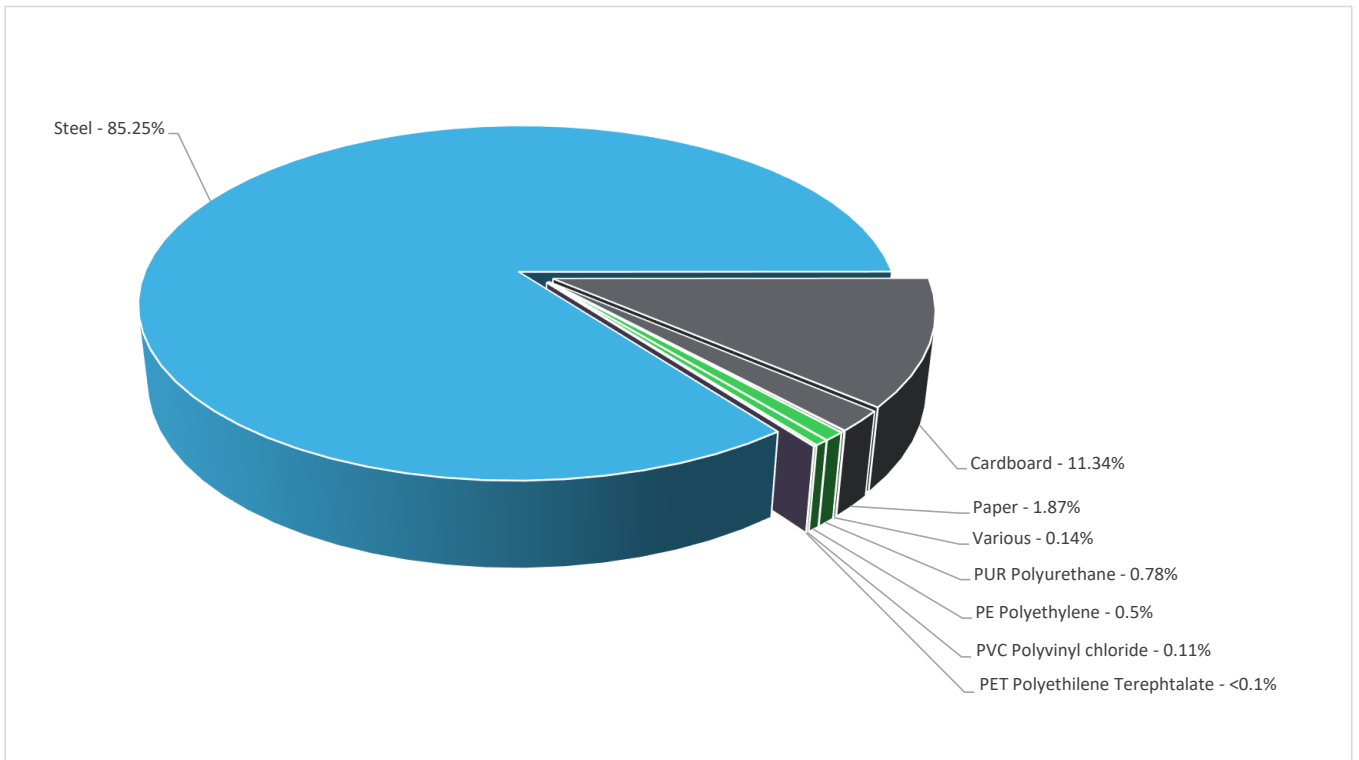


## General information

Reference product	PanelSeT - Industrial metallic box - NSYSBM203012
Description of the product	The main purpose of the Industrial metallic box is to protect electrical equipment of low-voltage switchgear and control gear assemblies.
Description of the range	Single product
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure having the following dimensions H x L x D while protecting them against mechanical impacts (IK) and the penetration of solid objects and liquids (IP), according to the appropriate use scenario, and for the reference service life of the product of 20 years.
Specifications are:	H = 200 mm L = 300 mm P = 120 mm IP = IP 66 IEC 60529 IK = IK 10 IEC 62262

## Constituent materials

Reference product mass 2837 g including the product, its packaging and additional elements and accessories



Plastics	1.40%
Metals	85.25%
Others	13.35%

## 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/>

**Additional environmental information**

End Of Life	Recyclability potential:	<b>95.76%</b>	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.
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**Environmental impacts**

Reference service life time	20 years			
Product category	Unequipped enclosures			
Installation elements	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).			
Use scenario	There is no use scenario to be considered			
Time representativeness	The collected data are representative of the year			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Europe			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	France	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - [www.se.com/contact](http://www.se.com/contact)

Mandatory Indicators		PanelSeT - Industrial metallic box - NSYSBM203012						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	2.63E+01	1.34E+01	5.63E+00	3.50E-01	0*	6.91E+00	-9.32E+00
Contribution to climate change-fossil	kg CO2 eq	2.60E+01	1.32E+01	5.63E+00	3.34E-01	0*	6.87E+00	-9.26E+00
Contribution to climate change-biogenic	kg CO2 eq	2.36E-01	1.83E-01	0*	1.58E-02	0*	3.71E-02	-5.88E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1.46E-07	0*	0*	9.98E-09	0*	1.36E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	5.04E-06	8.26E-08	4.95E-06	4.57E-09	0*	2.20E-09	-1.33E-06
Contribution to acidification	mol H+ eq	9.24E-02	4.39E-02	2.31E-02	9.82E-04	0*	2.44E-02	-5.43E-02
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	3.17E-05	1.46E-05	6.56E-07	7.84E-06	0*	8.61E-06	-1.88E-05
Contribution to eutrophication marine	kg N eq	2.47E-02	8.61E-03	1.05E-02	4.25E-04	0*	5.16E-03	-5.66E-03
Contribution to eutrophication, terrestrial	mol N eq	2.65E-01	9.17E-02	1.14E-01	2.97E-03	0*	5.63E-02	-6.43E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.89E-02	3.10E-02	3.81E-02	6.81E-04	0*	1.91E-02	-2.21E-02
Contribution to resource use, minerals and metals	kg Sb eq	2.36E-04	2.36E-04	0*	0*	0*	2.73E-07	-2.80E-03
Contribution to resource use, fossils	MJ	1.08E+03	5.26E+02	6.97E+01	3.30E+00	0*	4.86E+02	-2.09E+02
Contribution to water use	m3 eq	8.25E+00	5.40E+00	2.84E-01	3.86E-02	0*	2.52E+00	-3.78E+00

Inventory flows Indicators		PanelSeT - Industrial metallic box - NSYSBM203012						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.01E+00	1.55E+00	4.56E-04	4.34E-01	0*	1.85E-02	-5.67E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	7.38E+00	7.38E+00	0*	0*	0*	0*	-4.59E+00
Contribution to total use of renewable primary energy resources	MJ	9.39E+00	8.93E+00	0*	4.34E-01	0*	1.85E-02	-5.16E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.08E+03	5.24E+02	6.97E+01	3.30E+00	0*	4.86E+02	-2.09E+02
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.61E+00	1.61E+00	0*	0*	0*	0*	-2.49E-01
Contribution to total use of non-renewable primary energy resources	MJ	1.08E+03	5.26E+02	6.97E+01	3.30E+00	0*	4.86E+02	-2.09E+02
Contribution to use of secondary material	kg	0.00E+00	0*	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	1.92E-01	1.26E-01	6.62E-03	9.00E-04	0*	5.87E-02	-8.81E-02
Contribution to hazardous waste disposed	kg	4.79E+00	4.78E+00	4.64E-03	8.29E-03	0*	0*	-2.21E+02
Contribution to non hazardous waste disposed	kg	1.47E+00	1.18E+00	5.71E-03	1.51E-01	0*	1.36E-01	-7.42E+00
Contribution to radioactive waste disposed	kg	1.91E-03	7.57E-04	1.11E-03	1.85E-05	0*	1.86E-05	-3.34E-03
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.66E+00	3.44E-01	0*	5.29E-03	0*	2.32E+00	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	3.97E-02	3.45E-03	0*	1.36E-02	0*	2.27E-02	0.00E+00
* represents less than 0.01% of the total life cycle of the reference flow								
Contribution to biogenic carbon content of the product	kg de C	0.00E+00						
Contribution to biogenic carbon content of the associated packaging	kg de C	8.72E-02						


Mandatory Indicators		PanelSeT - Industrial metallic box - NSYSBM203012							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		PanelSeT - Industrial metallic box - NSYSBM203012							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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°	VH42	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	07-2024	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal                      External    X			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

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