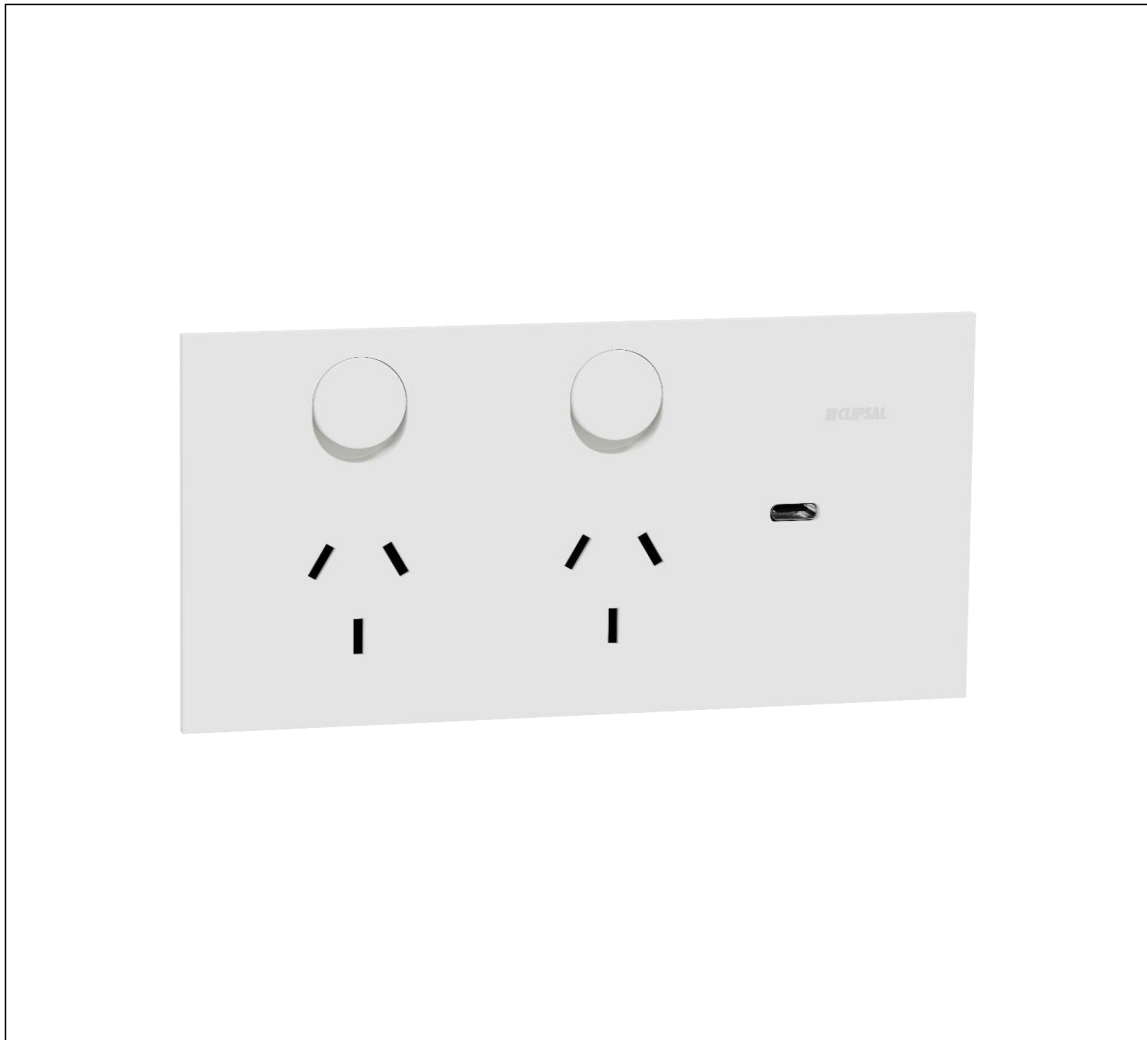


Product Environmental Profile

TWIN SWITCHED SOCKET WITH USB CHARGER

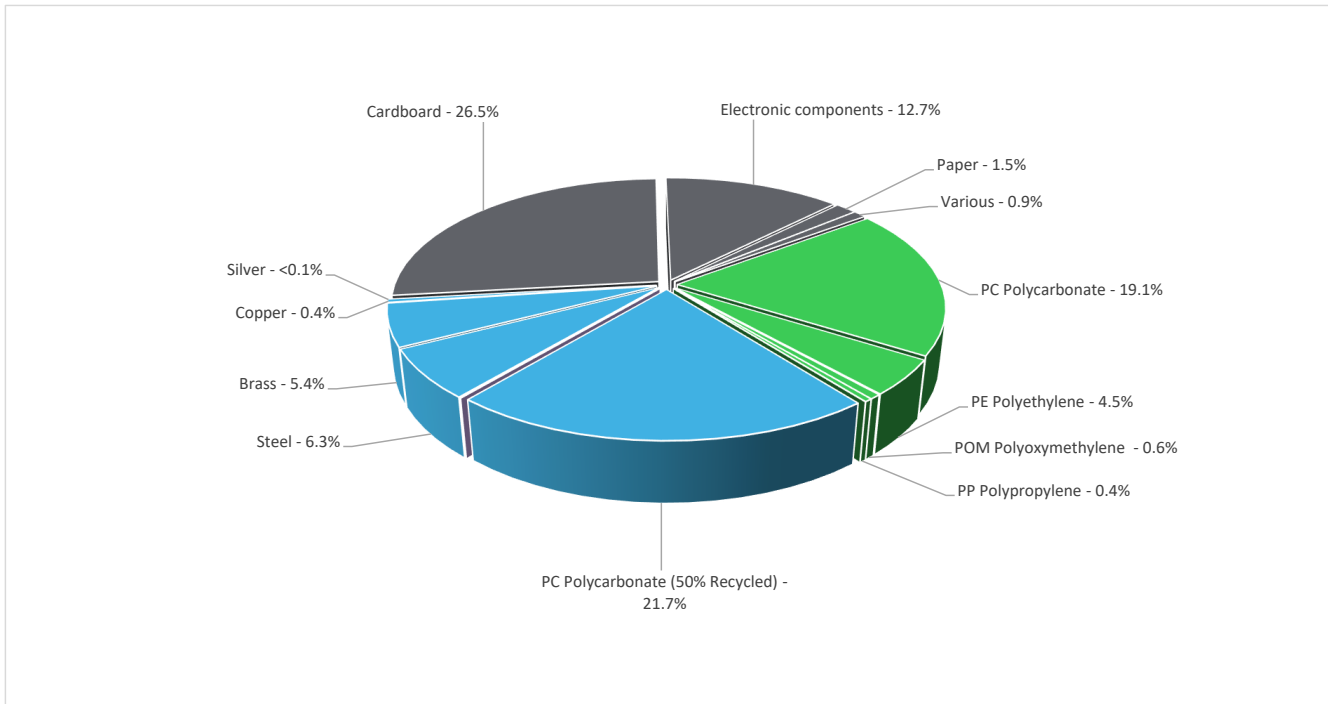


General information

Reference product	TWIN SWITCHED SOCKET WITH USB CHARGER - 1025USBC-ZW
Description of the product	The main function of the switched socket is to open or close the electrical circuit, and the USB-type socket outlet is to allow users to connect and disconnect the USB charging cable from the power source.
Description of the range	Single product
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 10A under a voltage of 240V while protecting the user from direct contact with live parts and with a protection class IP2X in accordance with the standard IEC 60529 with the dimension 148mm x 74mm x 29mm along with USB connection type-C charging points with dimension 164mm x 127mm x 102mm according to the appropriate use scenario with IP20 Degree of protection against ingress of solid foreign objects.

Constituent materials

Reference product mass	280 g	including the product and its packaging.
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Others	41.6%
Plastics	46.3%
Metals	12.1%

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:	18%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database, the ESR database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	20 years			
Product category	Combinations of functions			
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	<p>The Product (Passive parts) is passive mode 10% of Load rate with 30% of use time rate in the power consumption is 0.64 kWh of the time over 20 years.</p> <p>The power consumption for active part is, in active mode 30% of the time with a power use of 1.927W and in stand-by mode 70% of the time with a power use of 0.042W for 20 years.</p>			
Replacement	As per PSR0005 the reference lifetime (RLT) of the product with Electronic component is 10 years, 40M TYPE-C USB CHARGER has to be changed for every 10 years due to electronic components (PCBA)			
Time representativeness	The collected data are representative of the year 2023			
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	Australia, AU New-Zealand, NZ			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2018; Vietnam, VN	Electricity Mix; Low voltage; 2018; Australia, AU	Electricity Mix; Low voltage; 2018; Australia, AU	Electricity Mix; Low voltage; 2018; Australia, AU
		Electricity Mix; Low voltage; 2018; New-Zealand, NZ	Electricity Mix; Low voltage; 2018; New-Zealand, NZ	Electricity Mix; Low voltage; 2018; New-Zealand, NZ

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 - <http://www.schneider-electric.com/contact>

Mandatory Indicators		TWIN SWITCHED SOCKET WITH USB CHARGER - 1025USBC-ZW						
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	1.11E+02	1.80E+00	1.51E+00	0*	1.07E+02	5.47E-01	-3.05E-03
Contribution to climate change-fossil	kg CO2 eq	1.11E+02	1.76E+00	1.51E+00	0*	1.07E+02	5.44E-01	-1.11E-02
Contribution to climate change-biogenic	kg CO2 eq	1.14E-01	3.90E-02	0*	0*	7.12E-02	3.58E-03	8.03E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.56E-04	1.21E-04	0*	0*	3.44E-05	6.88E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.85E-06	3.72E-07	1.33E-06	0*	1.15E-06	2.41E-09	-1.85E-08
Contribution to acidification	mol H+ eq	6.98E-01	1.22E-02	6.20E-03	0*	6.79E-01	9.27E-04	-2.76E-03
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1.54E-04	2.58E-05	1.76E-07	0*	1.38E-05	1.14E-04	1.30E-06
Contribution to eutrophication marine	kg N eq	8.10E-02	1.49E-03	2.82E-03	1.97E-05	7.64E-02	2.23E-04	6.84E-05
Contribution to eutrophication, terrestrial	mol N eq	9.34E-01	1.60E-02	3.06E-02	2.01E-04	8.84E-01	2.60E-03	2.81E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.71E-01	5.43E-03	1.02E-02	4.82E-05	2.55E-01	6.62E-04	-1.60E-04
Contribution to resource use, minerals and metals	kg Sb eq	4.32E-04	2.81E-04	0*	0*	1.48E-04	3.61E-06	-4.40E-05
Contribution to resource use, fossils	MJ	1.70E+03	3.25E+01	1.87E+01	0*	1.64E+03	4.79E+00	-1.06E+00
Contribution to water use	m3 eq	5.52E+00	6.70E-01	7.63E-02	7.34E-03	4.63E+00	1.46E-01	-1.40E-01

Inventory flows Indicators		TWIN SWITCHED SOCKET WITH USB CHARGER - 1025USBC-ZW						
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	3.52E+02	1.46E+00	0*	0*	3.50E+02	8.96E-02	-3.96E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.60E-01	8.95E-02	0*	0*	7.04E-02	0*	1.36E+00
Contribution to total use of renewable primary energy resources	MJ	3.52E+02	1.55E+00	0*	0*	3.50E+02	8.96E-02	9.59E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.69E+03	2.92E+01	1.87E+01	0*	1.64E+03	4.79E+00	-1.06E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.56E+00	3.29E+00	0*	0*	1.28E+00	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.70E+03	3.25E+01	1.87E+01	0*	1.64E+03	4.79E+00	-1.06E+00
Contribution to use of secondary material	kg	1.33E-01	1.22E-01	0*	0*	1.08E-02	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	1.30E-01	1.70E-02	1.78E-03	1.71E-04	1.08E-01	3.39E-03	-3.25E-03
Contribution to hazardous waste disposed	kg	1.09E+01	6.16E+00	1.25E-03	0*	4.75E+00	3.52E-02	-3.77E+00
Contribution to non hazardous waste disposed	kg	1.90E+01	1.13E+00	0*	8.02E-02	1.76E+01	1.42E-01	-1.90E-03
Contribution to radioactive waste disposed	kg	6.02E-03	2.07E-03	2.99E-04	0*	3.65E-03	5.80E-06	-2.14E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.27E-02	5.09E-03	0*	0*	1.08E-03	3.65E-02	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
* 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	2.29E-02						

Mandatory Indicators		TWIN SWITCHED SOCKET WITH USB CHARGER - 1025USBC-ZW							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.07E+02	0*	3.69E+01	0*	0*	0*	7.06E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.07E+02	0*	3.68E+01	0*	0*	0*	7.06E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	7.12E-02	0*	3.06E-02	0*	0*	0*	4.06E-02	0*
Contribution to climate change-land use and land use change	kg CO2 eq	3.44E-05	0*	3.44E-05	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.15E-06	0*	8.22E-07	0*	0*	0*	3.32E-07	0*
Contribution to acidification	mol H+ eq	6.79E-01	0*	2.31E-01	0*	0*	0*	4.48E-01	0*
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	1.38E-05	0*	1.32E-05	0*	0*	0*	5.39E-07	0*
Contribution to eutrophication marine	kg N eq	7.64E-02	0*	2.65E-02	0*	0*	0*	4.99E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	8.84E-01	0*	3.06E-01	0*	0*	0*	5.78E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.55E-01	0*	8.88E-02	0*	0*	0*	1.66E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.48E-04	0*	1.46E-04	0*	0*	0*	1.76E-06	0*
Contribution to resource use, fossils	MJ	1.64E+03	0*	5.62E+02	0*	0*	0*	1.08E+03	0*
Contribution to water use	m3 eq	4.63E+00	0*	1.88E+00	0*	0*	0*	2.74E+00	0*

Inventory flows Indicators		TWIN SWITCHED SOCKET WITH USB CHARGER - 1025USBC-ZW							
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	3.50E+02	0*	1.17E+02	0*	0*	0*	2.34E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	7.04E-02	0*	7.04E-02	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	3.50E+02	0*	1.17E+02	0*	0*	0*	2.34E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.64E+03	0*	5.61E+02	0*	0*	0*	1.08E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.28E+00	0*	1.28E+00	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1.64E+03	0*	5.62E+02	0*	0*	0*	1.08E+03	0*
Contribution to use of secondary material	kg	1.08E-02	0*	1.08E-02	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	1.08E-01	0*	4.42E-02	0*	0*	0*	6.39E-02	0*
Contribution to hazardous waste disposed	kg	4.75E+00	0*	3.02E+00	0*	0*	0*	1.73E+00	0*
Contribution to non hazardous waste disposed	kg	1.76E+01	0*	6.21E+00	0*	0*	0*	1.14E+01	0*
Contribution to radioactive waste disposed	kg	3.65E-03	0*	2.40E-03	0*	0*	0*	1.24E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	1.08E-03	0*	1.08E-03	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 v6.2.2, 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.

Registration number :	ENVPEP2406034_V1-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	08-2024	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	
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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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