Product Environmental Profile

65W USB Charger C,WE







General information

Reference product	65W USB Charger C,WE - E831USB65_WE
Description of the product	The function of the USB socket is to allow users to connect and disconnect the plug of an electrical load.
Functional unit	The USB Charger C is to charge electronic products through the USB interface. This protection is ensured in accordance with the following parameters: Type: C, 65W USB charger Input: 220V AC ~ 240V AC Output: Max. 20V DC, 3.25A IP20 in accordance with the standard IEC 62368-1

Constituent materials

Per Polycarbonate - 38.4%

Paper - 0.8%

Plastics

38.80%

Matella 2.31.09

Plastics

38.80%

 Plastics
 38.80%

 Metals
 3.10%

 Others
 58.10%

E | 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/

(19) Additional environmental information

End Of Life

Recyclability potential:

4%

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).

Environmental impacts

Reference service life time	20 years						
Product category	USB socket						
Installation elements	The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).						
Use scenario	Load rate: 100 % of the rated current according to the USB standards Load rate: 30% de the RLT						
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	Vietnam						
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; VN	Electricity Mix; Production mix; Low voltage; VN	Electricity Mix; Production mix; Low voltage; VN			

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			65W USB Charger C,WE - E831USB65_WE					
lancas in diagram	II-ii	Tatal	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
Impact indicators	Unit	Total	[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	2.13E+02	2.41E+01	4.90E-02	5.15E-02	1.89E+02	2.24E-01	-5.13E-02
Contribution to climate change-fossil	kg CO2 eq	2.13E+02	2.41E+01	4.90E-02	4.92E-02	1.88E+02	2.24E-01	-5.08E-02
Contribution to climate change-biogenic	kg CO2 eq	9.74E-02	9.59E-03	0*	2.28E-03	8.55E-02	0*	-5.36E-04
Contribution to climate change-land use and land use change	kg CO2 eq	5.88E-08	5.52E-08	0*	3.59E-09	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.01E-06	3.04E-06	4.32E-08	3.42E-09	9.22E-07	6.46E-10	-1.24E-08
Contribution to acidification	mol H+ eq	1.38E+00	1.59E-01	2.13E-04	2.04E-04	1.22E+00	0*	-2.67E-04
Contribution to eutrophication, freshwater	kg (PO4)³ eq	5.68E-05	5.55E-05	5.74E-09	3.88E-07	9.31E-07	0*	-2.74E-07
Contribution to eutrophication marine	kg N eq	1.52E-01	1.66E-02	9.79E-05	5.42E-05	1.35E-01	2.59E-05	-3.58E-05
Contribution to eutrophication, terrestrial	mol N eq	1.74E+00	1.76E-01	1.06E-03	4.10E-04	1.56E+00	3.40E-04	-3.61E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.11E-01	5.87E-02	3.48E-04	1.09E-04	4.52E-01	8.62E-05	-1.27E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.09E-03	1.08E-03	0*	0*	2.97E-06	0*	-5.55E-06
Contribution to resource use, fossils	MJ	3.16E+03	2.73E+02	5.95E-01	5.34E-01	2.88E+03	1.17E+00	-6.81E-01
Contribution to water use	m3 eq	1.39E+01	6.29E+00	2.49E-03	2.29E-02	7.53E+00	2.36E-02	-2.53E-02

Inventory flows Indicators			65W USB Charger C,WE - E831USB65_WE					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
inventory nows	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	5.84E+02	1.00E+01	0*	0*	5.74E+02	0*	5.08E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	5.57E-01	5.57E-01	0*	0*	0*	0*	-9.17E-02
Contribution to total use of renewable primary energy resources	MJ	5.84E+02	1.06E+01	0*	0*	5.74E+02	0*	-4.09E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.15E+03	2.70E+02	5.95E-01	5.34E-01	2.88E+03	1.17E+00	-6.51E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.70E+00	2.70E+00	0*	0*	0*	0*	-3.06E-02
Contribution to total use of non-renewable primary energy resources	MJ	3.16E+03	2.73E+02	5.95E-01	5.34E-01	2.88E+03	1.17E+00	-6.81E-01
Contribution to use of secondary material	kg	8.40E-05	8.40E-05	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	3.23E-01	1.46E-01	5.79E-05	5.32E-04	1.75E-01	5.50E-04	-5.90E-04
Contribution to hazardous waste disposed	kg	1.86E+01	1.38E+01	0*	0*	4.74E+00	7.10E-02	-4.03E-01
Contribution to non hazardous waste disposed	kg	3.75E+01	6.19E+00	0*	1.67E-01	3.10E+01	6.86E-02	-1.46E-01
Contribution to radioactive waste disposed	kg	5.31E-03	2.34E-03	9.74E-06	2.24E-05	2.94E-03	2.67E-06	-1.32E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.44E-02	5.83E-04	0*	2.88E-02	0*	5.00E-03	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

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

 $[\]textit{Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO 14044.}$

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°		Supplemented by	PSR-0005-ed2-2016 03 29				
Date of issue	2023/08	Information and reference documents	www.pep-ecopassport.org				
		Validity period	5 years				
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)							
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 14021: 2016 « Environmental labels and declarations. Type II environmental declarations »

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