

Product Environmental Profile

RS USB PD A+C charger 45W, pure white

as referent product for:

all ELKO USB chargers with power output above 45W





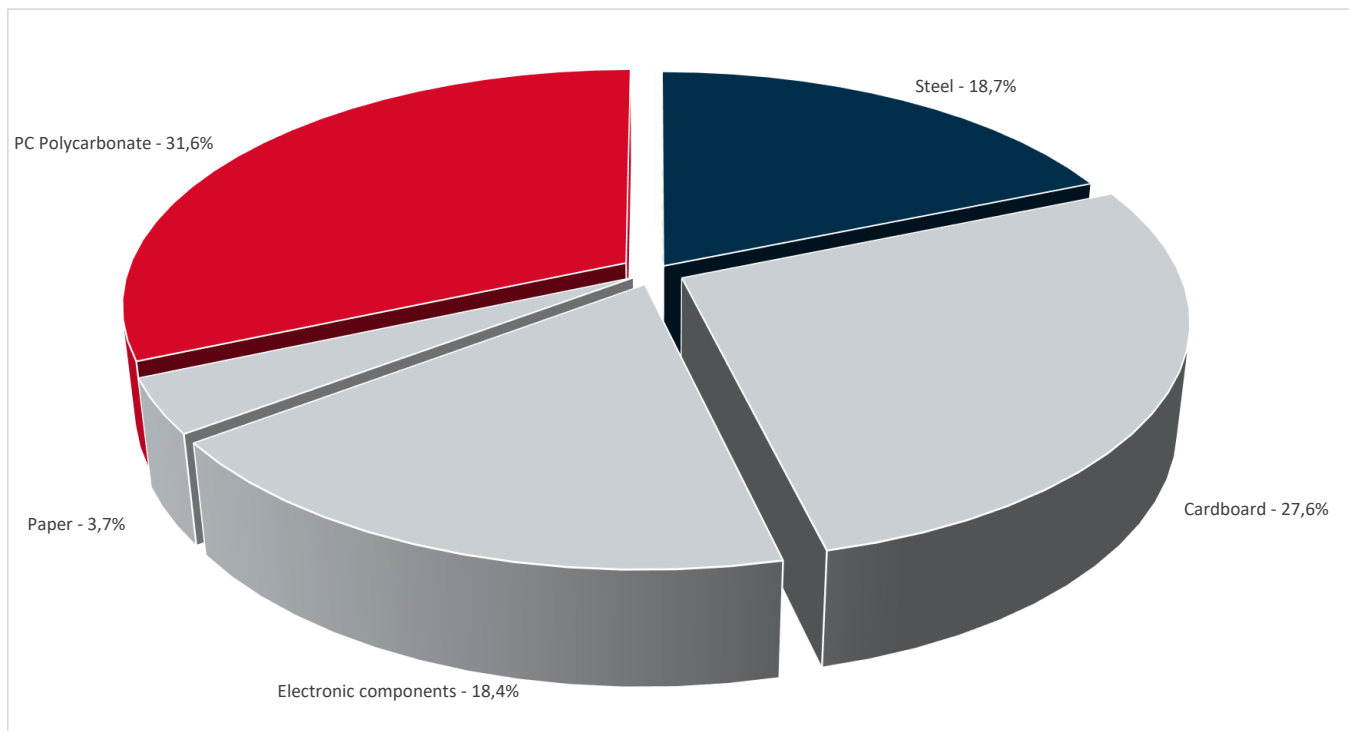
General information

Reference product	RS USB PD A+C charger 45W, pure white - EKO30196+EKO07370
Description of the product	RS USB PD A+C charger 45W pure white is a socket that give a solution for charging IT devices through USB ports.This USB charger is OVCIII with service lifetime target 10 years. The stand by consumption is 0.08W and total output power of the USB charge is 52.5W.
Description of the range	It contains ELKO USB chargers above 45W, with double USB outputs with and without claws, with metal fixing frames, and for all type aesthetics frame finishings. The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To make available during 10 years USB charging ports where output voltage and related current will be automatically adapted by PD protocol from 5V/3A to 20V/2.25A for USB C and 5V/1.5A for USB A. The rated operational voltage is 220-240V, embedding electrical overload and temperature protection.



Constituent materials

Reference product mass	174 g	including the product, its packaging and additional elements and accessories
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Others	49,7%
Plastics	31,6%
Metals	18,7%



Substance assessment

Details of ROHS and REACH substances information are available on the ELKO website

<https://www.elko.no/om-elko/miljo/>



Additional environmental information

End Of Life	Recyclability potential:	27%	Recyclability rate has been calculated based on REEECY TM 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).
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Environmental impacts

Reference service life time	10 years		
Product category	USB socket		
Installation elements	The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).		
Use scenario	The product is in active mode, for IT devices charging duration, 30 % of the time with an average 2,67W power dissipation and 70 % of the remaining time in stand by mode with 0,075W as power consumption.		
Geographical representativeness	Sweden		
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	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; GE	Electricity Mix; Production mix; Low voltage; SE	Electricity Mix; Production mix; Low voltage; SE

Mandatory Indicators			RS USB PD A+C charger 45W, pure white - EKO30196+EKO07370					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	8,03E+00	5,38E+00	5,02E-02	6,53E-02	2,23E+00	2,98E-01	-1,38E-01
Contribution to climate change-fossil	kg CO2 eq	7,96E+00	5,33E+00	5,02E-02	6,48E-02	2,22E+00	2,96E-01	-1,37E-01
Contribution to climate change-biogenic	kg CO2 eq	6,42E-02	4,73E-02	0*	5,02E-04	1,35E-02	2,90E-03	-7,31E-04
Contribution to climate change-land use and land use change	kg CO2 eq	1,75E-07	1,75E-07	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	9,84E-07	8,91E-07	4,43E-08	8,54E-10	4,34E-08	4,37E-09	-1,88E-08
Contribution to acidification	mol H+ eq	6,79E-02	2,96E-02	2,18E-04	8,18E-05	3,62E-02	1,80E-03	-7,95E-04
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1,54E-04	1,46E-05	0*	1,01E-06	1,38E-04	1,03E-06	-3,25E-07
Contribution to eutrophication marine	kg N eq	8,60E-03	4,34E-03	1,00E-04	3,24E-05	3,01E-03	1,12E-03	-8,80E-05
Contribution to eutrophication, terrestrial	mol N eq	1,79E-01	4,53E-02	1,09E-03	2,44E-04	1,31E-01	1,19E-03	-9,72E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2,16E-02	1,42E-02	3,56E-04	7,63E-05	6,57E-03	4,38E-04	-3,27E-04
Contribution to resource use, minerals and metals	kg Sb eq	1,22E-03	1,22E-03	0*	0*	2,30E-06	0*	-3,87E-05
Contribution to resource use, fossils	MJ	6,15E+02	7,08E+01	6,09E-01	1,76E-01	5,36E+02	7,04E+00	-2,96E+00
Contribution to water use	m3 eq	2,23E+01	3,11E+00	2,54E-03	5,40E-03	2,15E-01	1,90E+01	-5,95E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			RS USB PD A+C charger 45W, pure white - EKO30196+EKO07370					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[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	2,29E+02	2,53E+00	0*	0*	2,26E+02	8,33E-02	4,44E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1,02E+00	1,02E+00	0*	0*	0*	0*	-1,12E-01
Contribution to total use of renewable primary energy resources	MJ	2,30E+02	3,55E+00	0*	0*	2,26E+02	8,33E-02	-6,72E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,12E+02	6,86E+01	6,09E-01	1,76E-01	5,36E+02	7,04E+00	-2,96E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2,19E+00	2,19E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	6,15E+02	7,08E+01	6,09E-01	1,76E-01	5,36E+02	7,04E+00	-2,96E+00
Contribution to use of secondary material	kg	5,85E-06	5,85E-06	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	5,75E-01	7,24E-02	5,92E-05	1,26E-04	5,00E-03	4,97E-01	-1,39E-03
Contribution to hazardous waste disposed	kg	5,75E+00	5,57E+00	0*	0*	7,23E-02	1,15E-01	-3,05E+00
Contribution to non hazardous waste disposed	kg	6,76E+00	6,06E+00	0*	8,79E-02	5,51E-01	5,74E-02	-2,61E-01
Contribution to radioactive waste disposed	kg	5,96E-03	5,89E-03	9,97E-06	6,68E-06	5,73E-05	2,62E-06	-5,32E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	5,40E-02	1,74E-02	0*	6,20E-03	0*	3,04E-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	2,62E-02	0*	0*	2,62E-02	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 and on demand in a digital format - Country Customer Care Center - <https://www.elko.no/kontakt-oss/>

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 :	ELKO-00968-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH48	Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	07/2023	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			
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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ELKO-00968-V01.01-EN

Published by Schneider Electric Industries SAS

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07/2023