Product Environmental Profile

ELKO One - Single socket outlet combined with USB charger

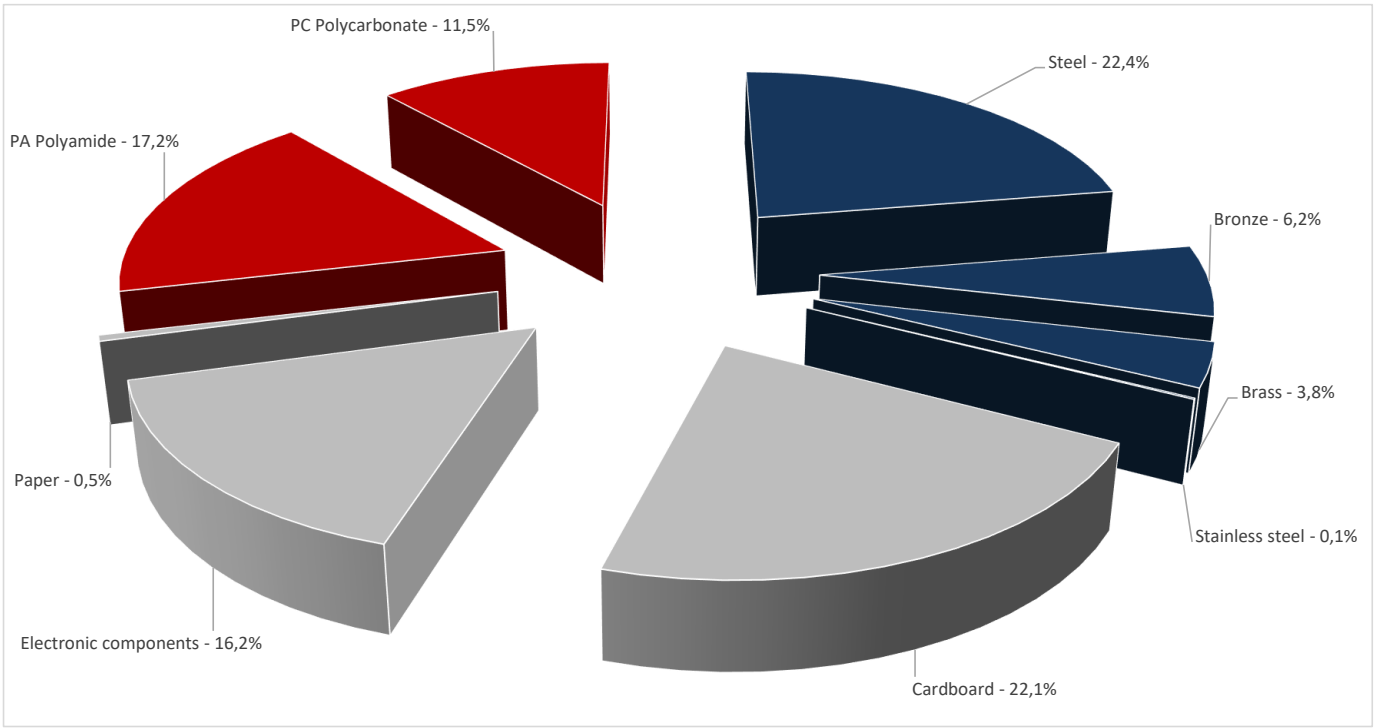
Representative of all Elko One USB charger + socket

General information

Reference product	ELKO One - Single socket outlet combined with USB charger - EKO50091
Description of the product	ELKO One USB charger + socket is a single socket outlet combined with USB C type power delivery outlet. This device is equipped with advanced charging technology USB-C Power Delivery Programmable Power Supply (PD PPS), which is better protected & smarter, enabling optimal fast-charge to smartphones and other gadgets over a standard USB PD. It has a single Schuko socket outlet for power connectivity.
Description of the range	The products of the range are: Same architecture with a distinction between 20 and 25W difference 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	Provide one USB connection type charging point C and also to Connect/disconnect the plug of a load consuming 16A (In) maximum under a voltage of 250VAC (U) while protecting the user from direct contact with live parts with a protection class IP21, according to the appropriate use scenario, and for the reference service life of the product of 10 years.
Specifications are:	In = 16A U = 250V The Schuko socket output current is 16A The USB-C maximum power output is 20W The USB-C standby power is below 0.1W, with a VI level efficiency Degree of protection IP21 in accordance with the standard IEC 60529 Voltage range low voltage and with a current type AC

Constituent materials

Reference product mass	108 g	including the product, its packaging and additional elements and accessories



Plastics	28,7%
Metals	32,5%
Others	38,8%

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:	**41%**	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.

Environmental impacts

Reference service life time	10 years			
Product category	Combinations of functions			
Installation elements	The product does not require any installation operations			
Use scenario	Load rate = 10% max power for 30% RLT (10 years) Use rate = 30% RLT in charging mode, 70% RLT in Standby mode			
Geographical representativeness	Europe			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; High voltage; 2018; Germany, DE	Electricity Mix; High voltage; 2018; Sweden, SE	Electricity Mix; High voltage; 2018; Sweden, SE	Electricity Mix; High voltage; 2018; Sweden, SE

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			**ELKO One - Single socket outlet combined with USB charger - EKO50091**					
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	3,54E+00	1,99E+00	2,78E-02	2,55E-02	1,27E+00	2,26E-01	-1,42E-01
Contribution to climate change-fossil	kg CO2 eq	3,52E+00	1,97E+00	2,78E-02	2,43E-02	1,27E+00	2,24E-01	-1,37E-01
Contribution to climate change-biogenic	kg CO2 eq	2,26E-02	1,15E-02	0*	1,21E-03	7,70E-03	2,14E-03	-5,21E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1,89E-05	1,89E-05	0*	0*	0*	3,60E-08	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	2,53E-07	2,27E-07	4,25E-11	3,30E-10	2,48E-08	1,24E-09	-2,10E-08
Contribution to acidification	mol H+ eq	3,37E-02	1,22E-02	1,86E-04	7,46E-05	2,07E-02	5,92E-04	-2,41E-03
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	1,68E-04	2,07E-05	0*	5,84E-07	7,86E-05	6,82E-05	-5,48E-07
Contribution to eutrophication marine	kg N eq	3,44E-03	1,48E-03	8,75E-05	3,24E-05	1,72E-03	1,21E-04	-1,17E-04
Contribution to eutrophication, terrestrial	mol N eq	9,31E-02	1,55E-02	9,60E-04	2,26E-04	7,50E-02	1,40E-03	-1,24E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	9,48E-03	5,05E-03	2,43E-04	5,17E-05	3,75E-03	3,89E-04	-4,92E-04
Contribution to resource use, minerals and metals	kg Sb eq	1,91E-04	1,88E-04	0*	0*	1,31E-06	2,16E-06	-4,23E-05
Contribution to resource use, fossils	MJ	3,39E+02	2,69E+01	3,87E-01	2,52E-01	3,06E+02	5,36E+00	-2,75E+00
Contribution to water use	m3 eq	2,97E+00	2,76E+00	0*	1,97E-03	1,23E-01	8,89E-02	-1,26E-01

Inventory flows Indicators		ELKO One - Single socket outlet combined with USB charger - EKO50091						
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	1,30E+02	5,35E-01	0*	3,31E-02	1,29E+02	5,25E-02	2,12E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	5,81E-01	5,81E-01	0*	0*	0*	0*	-3,52E-01
Contribution to total use of renewable primary energy resources	MJ	1,30E+02	1,12E+00	0*	3,31E-02	1,29E+02	5,25E-02	-3,31E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,38E+02	2,58E+01	3,87E-01	2,52E-01	3,06E+02	5,36E+00	-2,75E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1,17E+00	1,17E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3,39E+02	2,69E+01	3,87E-01	2,52E-01	3,06E+02	5,36E+00	-2,75E+00
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	6,94E-02	6,44E-02	0*	4,58E-05	2,86E-03	2,07E-03	-2,93E-03
Contribution to hazardous waste disposed	kg	5,65E+00	5,59E+00	0*	6,35E-04	4,13E-02	1,71E-02	-3,52E+00
Contribution to non hazardous waste disposed	kg	1,67E+00	1,31E+00	9,74E-04	1,09E-02	3,15E-01	3,38E-02	-8,96E-02
Contribution to radioactive waste disposed	kg	3,83E-04	3,47E-04	6,94E-07	1,35E-06	3,27E-05	1,53E-06	-4,15E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	3,87E-02	5,04E-03	0*	0*	0*	3,36E-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	1,43E-03	5,17E-05	0*	1,04E-03	0*	3,33E-04	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	6,74E-03

Mandatory Indicators		ELKO One - Single socket outlet combined with USB charger - EKO50091							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	7,70E-03	0*	0*	0*	0*	0*	1,27E+00	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	1,27E+00	0*
Contribution to climate change-biogenic	kg CO2 eq	2,48E-08	0*	0*	0*	0*	0*	7,70E-03	0*
Contribution to climate change-land use and land use change	kg CO2 eq	2,07E-02	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	7,86E-05	0*	0*	0*	0*	0*	2,48E-08	0*
Contribution to acidification	mol H+ eq	1,72E-03	0*	0*	0*	0*	0*	2,07E-02	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	7,50E-02	0*	0*	0*	0*	0*	7,86E-05	0*
Contribution to eutrophication marine	kg N eq	3,75E-03	0*	0*	0*	0*	0*	1,72E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	1,31E-06	0*	0*	0*	0*	0*	7,50E-02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3,06E+02	0*	0*	0*	0*	0*	3,75E-03	0*
Contribution to resource use, minerals and metals	kg Sb eq	1,23E-01	0*	0*	0*	0*	0*	1,31E-06	0*
Contribution to resource use, fossils	MJ	0,00E+00	0*	0*	0*	0*	0*	3,06E+02	0*
Contribution to water use	m3 eq	0,00E+00	0*	0*	0*	0*	0*	1,23E-01	0*

Inventory flows Indicators		ELKO One - Single socket outlet combined with USB charger - EKO50091							
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	1,29E+02	0*	0*	0*	0*	0*	1,29E+02	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	1,29E+02	0*	0*	0*	0*	0*	1,29E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,06E+02	0*	0*	0*	0*	0*	3,06E+02	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	3,06E+02	0*	0*	0*	0*	0*	3,06E+02	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	m^3	2,86E-03	0*	0*	0*	0*	0*	2,86E-03	0*
Contribution to hazardous waste disposed	kg	4,13E-02	0*	0*	0*	0*	0*	4,13E-02	0*
Contribution to non hazardous waste disposed	kg	3,15E-01	0*	0*	0*	0*	0*	3,15E-01	0*
Contribution to radioactive waste disposed	kg	3,27E-05	0*	0*	0*	0*	0*	3,27E-05	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

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-01199-V01.01-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
Verifier accreditation N°	VH48	*Supplemented by*	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	06/2024	*Information and reference documents*	www.pep-ecopassport.org
		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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