Product Environmental Profile

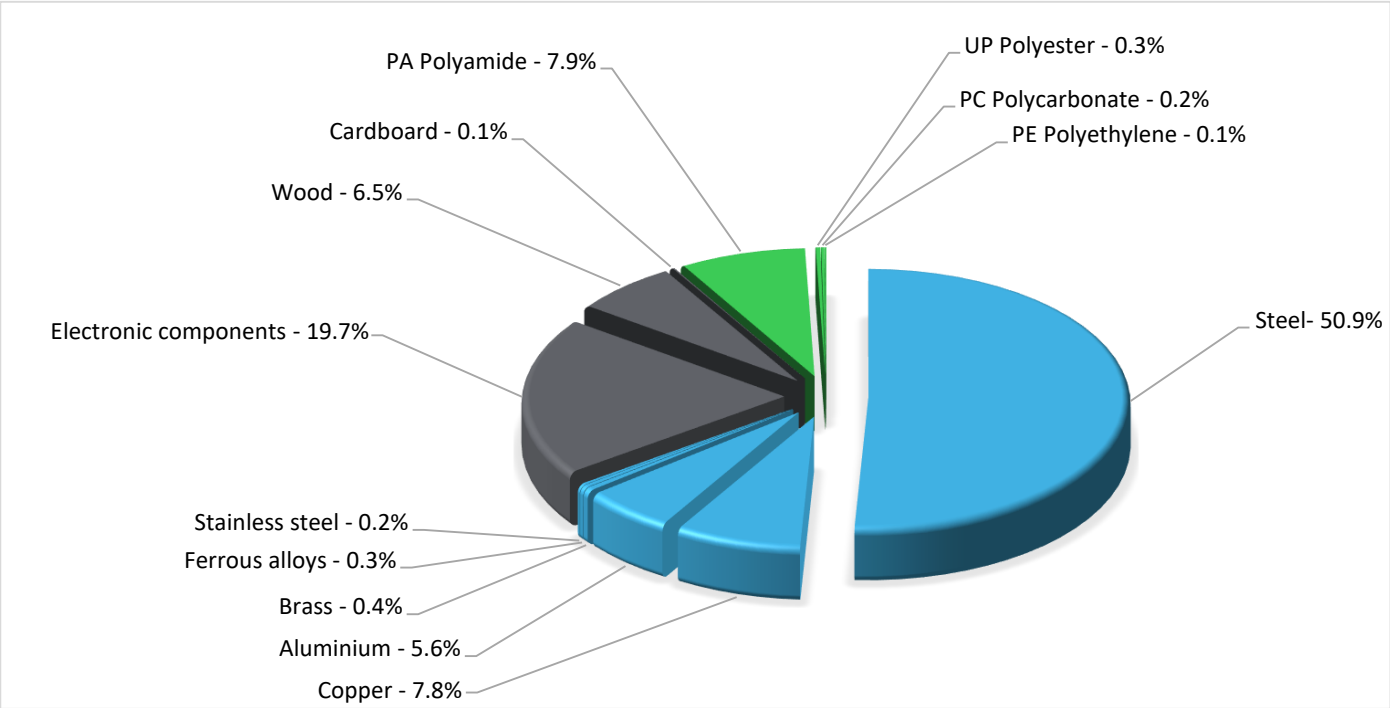
Easy UPS 3-Phase Modular 50kW Scalable to 250kW 400V Black

General information

Representative product	Easy UPS 3-Phase Modular 50kW Scalable to 250kW 400V Black - EMUPS50K250PBH
Description of the product	The purpose of this UPS is to provide high density, true double-conversion on-line power protection for servers, data center, voice / data networks, medical labs, and light industrial applications.
Description of the range	50k/100k/150k/200k/250kW 400V UPS The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To protect the load of 250,000 Watts against input power failure during 15 years and switch to the energy storage system to avoid power outage.

Constituent materials

Reference product mass	322490.7 g	including the product, its packaging and additional elements and accessories



Plastics	8.5%
Metals	65.2%
Others	26.3%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) or phthalates (Bis(2-ethylhexyl) phthalate -DEHP, Butyl benzyl phthalate -BBP, Dibutyl phthalate – DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive

The battery pack(s) within this product range are designed to conform with the requirements of the Battery and Accumulator Directive (European Directive 2006/66/EC of 26 September 2006) and do not contain, or only contain in authorized proportions, the regulated substances lead (Pb), mercury (Hg) and cadmium (Cd) as mentioned in the Directive. Additionally, the non-spillable, valve regulated lead acid batteries used in the battery pack(s) within this product range are certified by their manufacturers as capable of withstanding the IATA/ICAO Vibration and Pressure Differential Test and that at a temperature of 55 degrees Centigrade, there is no free electrolyte to flow from a ruptured or cracked case.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

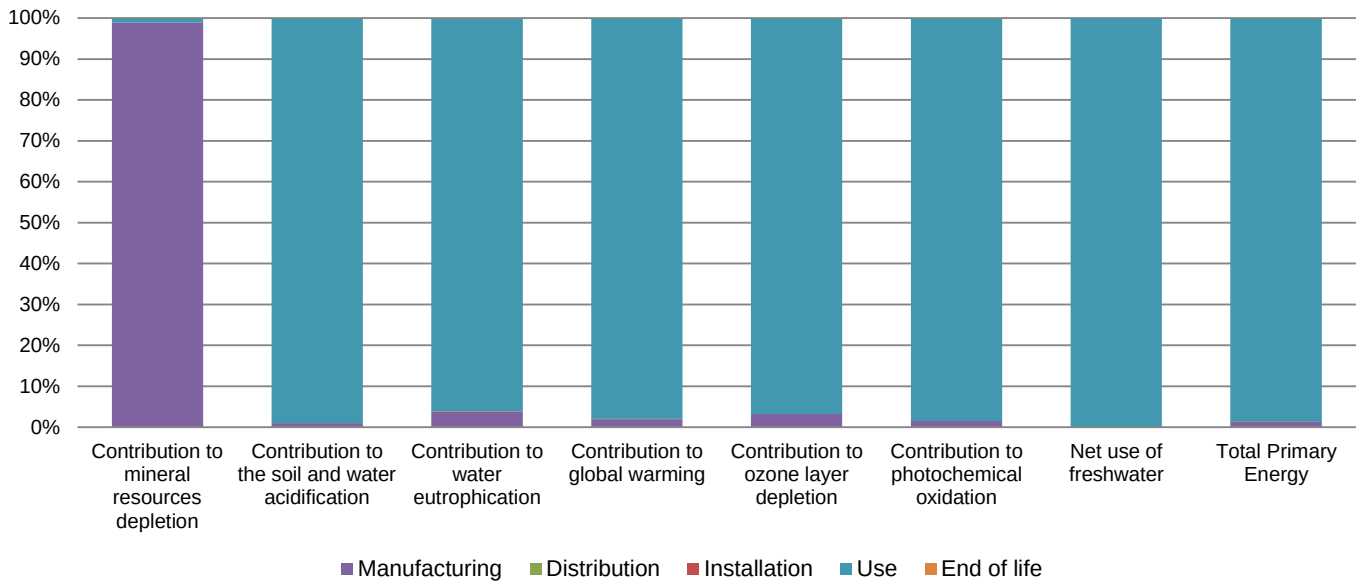
The Easy UPS 3-Phase Modular 50kW Scalable to 250kW 400V Black presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 43490.7 g, consisting of Wood (46.1%), Plastic (52.9%), Paper and cardboard (1.0%) Product distribution optimised by setting up local distribution centres
Installation	The Easy UPS does not require any special installation materials or operations. Installation is to be performed by qualified personnel.
Use	Product maintenance requires monitoring and replacement of components as needed. To align with PSR0010, the power modules are replaced once and the fans are replaced two times. Additionally, it is expected that the dust filter will need to be replaced annually.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Battery (6g), electronic board (22166), electrolyte capacitors (167g) , LCD () that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **73%** Based on “ECO’DEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	15 years
Installation elements	Transport and disposal of packaging are accounted for during installation. No special installation components needed.
Use scenario	Power consumption conforms to the requirements in PSR0010 where it is modeled to operate at 25% load for 25% of the time, 50% load for 50% of the time and 75% load for 25% of the time. The UPS is modeled to operate in normal mode (average efficiency of 96.1% and annual use of 42882.94kWh) 100% of the time.
Geographical representativeness	Europe
Technological representativeness	The means of material production, processing and transport modeled are representative of the technologies used in production.

	Manufacturing	Installation	Use	End of life
Energy model used	Energy model used: China	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Easy UPS 3-Phase Modular 50kW Scalable to 250kW 400V Black - EMUPS50K250PBH					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.39E+00	2.36E+00	0*	0*	2.74E-02	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.33E+03	1.32E+01	1.90E-01	0*	1.31E+03	0*
Contribution to water eutrophication	kg PO_4^{3-} eq	8.26E+01	3.14E+00	4.38E-02	1.42E-02	7.94E+01	4.19E-02
Contribution to global warming	kg CO_2 eq	3.22E+05	6.39E+03	4.16E+01	0*	3.15E+05	1.15E+02
Contribution to ozone layer depletion	kg CFC11 eq	2.12E-02	6.81E-04	0*	0*	2.05E-02	4.48E-06
Contribution to photochemical oxidation	kg C_2H_4 eq	7.34E+01	1.12E+00	1.36E-02	0*	7.22E+01	9.73E-03
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.14E+06	1.92E+02	0*	0*	1.14E+06	0*
Total Primary Energy	MJ	6.38E+06	8.87E+04	0*	0*	6.29E+06	0*



Optional indicators		Easy UPS 3-Phase Modular 50kW Scalable to 250kW 400V Black - EMUPS50K250PBH					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.65E+06	6.92E+04	5.85E+02	0*	3.58E+06	3.92E+02
Contribution to air pollution	m³	1.44E+07	8.25E+05	1.77E+03	0*	1.36E+07	3.43E+03
Contribution to water pollution	m³	1.35E+07	4.81E+05	6.84E+03	0*	1.30E+07	5.91E+03
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.74E+01	1.74E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.03E+05	2.35E+03	0*	0*	8.00E+05	0*
Total use of non-renewable primary energy resources	MJ	5.58E+06	8.64E+04	5.88E+02	0*	5.49E+06	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.03E+05	2.18E+03	0*	0*	8.00E+05	0*
Use of renewable primary energy resources used as raw material	MJ	1.64E+02	1.64E+02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.58E+06	8.46E+04	5.88E+02	0*	5.49E+06	0*
Use of non renewable primary energy resources used as raw material	MJ	1.77E+03	1.77E+03	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.16E+04	2.10E+04	0*	0*	1.64E+02	4.04E+02
Non hazardous waste disposed	kg	1.18E+06	2.06E+03	0*	0*	1.18E+06	0*
Radioactive waste disposed	kg	7.86E+02	1.22E+00	0*	0*	7.85E+02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.30E+02	2.14E+01	0*	1.28E+01	0*	1.96E+02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.76E+01	0*	0*	0*	0*	2.76E+01
Exported Energy	MJ	3.15E+01	1.90E+01	0*	1.25E+01	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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	ENVPEP2205016_V1	*Drafting rules*	PCR-ed3-EN-2015 04 02
Date of issue	05/2022	*Supplemented by*	PSR-0010-ed1.1-EN-2015 10 16
Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

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 - Self-declared environmental claims (Type II environmental labelling) »

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