Product Environmental Profile

Easy UPS 3L







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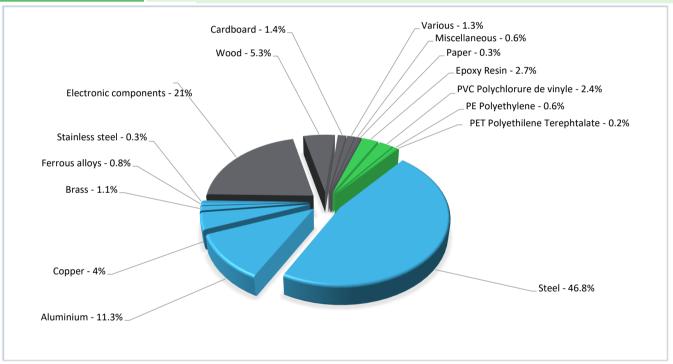
General information

Reference product	Easy UPS 3L 500kVA 400V 3:3 UPS - E3LUPS500KH								
Description of the product	The Schneider Electric Easy UPS 3L is an easy-to-configure, easy-to-use, and easy-to-service 250-600 kVA (400 V) 3 phase UPS that delivers high availability and predictability to medium and large commercial buildings and light industrial applications.								
	Easy 3L 250-600 kVA (400V) 3 phase UPS The representative product is Easy UPS 3L 500 kVA 400 V								
	Type Net weight (kg) Weight with packaging (kg) HxWxD Unique performance UPS rating (PF=1)								
	Easy UPS 3L 250 kVA 400 V, Start-up 5x8 425 470 1970x600x850 250 kW/kVA								
Description of the range	Easy UPS 3L 300 kVA 400 V, Start-up 5x8 449 503 1970x600x850 300 kW/kVA								
Description of the range	Easy UPS 3L 400 kVA 400 V, Start-up 5x8 538 584 1970x600x850 VFI-SS-111 400 kW/kVA								
	Easy UPS 3L 500 kVA 400 V, Start-up 5x8 640 688 1970x1000x850 500 kW/kVA								
	Easy UPS 3L 600 kVA 400 V, Start-up 5x8 745 800 1970x1000x850 600 kW/kVA								
	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 500kW against input power failure during 15 years and switch to the energy storage system to avoid power failure.								

Constituent materials

Reference product mass

688 kg including the product, its packaging and additional elements and accessories



Plastics 5.90%
Metals 64.30%
Others 29.80%

Substance assessment

RoHS compliance

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) on restriction of lead, mercury, cadmium, hexavalent chromium or flame retardants -PBB&PBDE or phthalates-DEHP, BBP, DBP, DIBP.

compliance

Products of this range are designed in conformity with the requirements of the REACH 1907/2006 regulation and its latest updates.

Battery Directive compliance

The battery within this product range are designed in conformity with the requirements of the Battery and Accumulator Directive (European Directive 2006/66/EC of 26 September 2006).

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/

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(19) Additional environmental information

End Of Life

Recyclability potential:

68%

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	15 years									
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Installation elements	The disposal of the packaging materials is accounted for 7% during the installation phase (including transport to disposal).									
	Power consumption conforms to the requirements in PSR0010-ed1.1-EN-2015_10_16_UPS:									
		Load rate		25%		50%	75%	100%		
		Proportion of time at s	pecified load	0.25		0.5	0.25	0		
	The referent UPS is modeled to operate in normal mode (average efficiency of 95.3% and annual use of 103,916kWh) 100% of the time									
Use scenario	after 15 years.	Type (400V UPS system)			Average energy efficiency		Electricity consumption (kWh over 15 years)			
		Easy UPS 3L 250 kVA 4	x8	95.3%		774,849				
		Easy UPS 3L 300 kVA 400 V, Start-up 5				95.3%		5		
		Easy UPS 3L 400 kVA 400 V, Start-up 5x8			95.4%		1,226,619			
		Easy UPS 3L 500 kVA 400 V, Start-up 5x8			95.3%		1,558,733			
	Easy UPS 3L 600 kVA 400 V, Start-up 5x				95.4%		1,830,074			
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	Europe									
Energy model used	[A1 ·	- A3]	[A	5]			[B6]		[C1 - C4]	
	Electricity Mix; Production mix; Low voltage; CN Electricity Mix; Low voltage; CN						city Mix; Proc ow voltage; l		Electricity Mix; Production mix; Low voltage; UE-27	

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	Easy UPS 3L - E3LUPS500KH							
Lance to Brown	11.5		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	6.51E+05	1.09E+04	1.98E+02	0*	6.39E+05	1.14E+03	-4.68E+04
Contribution to climate change-fossil	kg CO2 eq	6.50E+05	1.07E+04	1.98E+02	7.42E+01	6.38E+05	1.13E+03	-4.60E+04
Contribution to climate change-biogenic	kg CO2 eq	9.87E+02	1.47E+02	0*	0*	8.52E+02	7.75E+00	-7.73E+02
Contribution to climate change-land use and land use change	kg CO2 eq	1.64E-04	3.95E-05	0*	2.79E-05	0*	9.62E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.56E-03	1.64E-03	1.75E-04	1.71E-06	2.73E-03	1.26E-05	-7.29E-03
Contribution to acidification	mol H+ eq	3.75E+03	9.95E+01	8.62E-01	0*	3.65E+03	5.26E+00	-3.30E+02
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1.98E+00	2.94E-02	0*	5.07E-04	1.75E+00	2.06E-01	-1.31E-01
Contribution to eutrophication marine	kg N eq	4.29E+02	1.26E+01	3.96E-01	0*	4.14E+02	1.47E+00	-2.63E+01
Contribution to eutrophication, terrestrial	mol N eq	6.37E+03	1.38E+02	4.29E+00	0*	6.22E+03	8.71E+00	-2.98E+02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.38E+03	4.32E+01	1.41E+00	0*	1.33E+03	3.00E+00	-1.05E+02
Contribution to resource use, minerals and metals	kg Sb eq	1.27E+00	1.22E+00	0*	0*	4.63E-02	5.81E-03	-7.06E+00
Contribution to resource use, fossils	MJ	1.65E+07	1.71E+05	2.41E+03	0*	1.63E+07	7.36E+04	-8.11E+05
Contribution to water use	m3 eq	3.95E+04	3.39E+03	1.01E+01	1.72E+01	2.26E+04	1.35E+04	-1.63E+04

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Additional indicators for the French regulation are available as well

Inventory flows Indicators			Easy UPS 3L - E3LUPS500KH					
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	3.13E+06	3.77E+03	0*	0*	3.13E+06	0*	-1.91E+04
Contribution to use of renewable primary energy resources used as raw material	MJ	1.03E+03	1.03E+03	0*	0*	0*	0*	-4.23E+02
Contribution to total use of renewable primary energy resources	MJ	3.13E+06	4.79E+03	0*	0*	3.13E+06	0*	-1.96E+04
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.65E+07	1.68E+05	2.41E+03	0*	1.63E+07	7.36E+04	-8.09E+05
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.71E+03	2.71E+03	0*	0*	0*	0*	-2.16E+03
Contribution to total use of non-renewable primary energy resources	MJ	1.65E+07	1.71E+05	2.41E+03	0*	1.63E+07	7.36E+04	-8.11E+05
Contribution to use of secondary material	kg	3.05E-02	3.05E-02	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	9.57E+02	7.89E+01	2.34E-01	4.00E-01	5.26E+02	3.51E+02	-3.80E+02
Contribution to hazardous waste disposed	kg	5.62E+04	4.37E+04	0*	0*	1.19E+04	5.85E+02	-5.60E+05
Contribution to non hazardous waste disposed	kg	9.71E+04	5.04E+03	0*	1.02E+02	9.19E+04	6.35E+01	-5.50E+04
Contribution to radioactive waste disposed	kg	2.23E+01	2.98E+00	3.94E-02	1.10E-02	1.92E+01	1.53E-02	-3.77E+01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.77E+02	1.91E+00	0*	2.79E+01	0*	4.47E+02	0.00E+00
Contribution to materials for energy recovery	kg	1.45E-06	1.45E-06	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	2.59E+01	2.43E+00	0*	2.34E+01	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 ISO 14044.

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^{**} Net benefits and loads beyond the system boundaries stage (module D): potential for reuse, recovery and/or recycling, expressed as net benefits and impacts. **Not accounted in the Total.**

^{***}The calculation result is scientific counting method. For example, 1.37E+06=1.37*10^6=1,370,000, 1.64E-04=1.64*10^(-4)=0.000164

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.

Extrapolated data Referent product 400V UPS system Easy UPS 3L 250-600 kVA 250 600 kW rating 300 400 500 Weight with Packaging (kg) 470 503 584 688 800 7.64E+05 Contribution to climate change (kg CO2 eq) 3.26E+05 3.84E+05 5.13E+05 6.51E+05 Contribution to Ozone depletion (kg CFC11 eq) 2.56E-03 2.89E-03 3.64E-03 4.56E-03 5.25E-03 Contribution to Acidification (mol H+ eq) 1.88E+03 2.22E+03 2.95E+03 3.75E+03 4.40E+03 Contribution to eutrophication, freshwater (kg PO43- eq) 1.02E+00 1.19E+00 1.57E+00 1.98E+00 2.32E+00 Compulsory environmental indicators Total of Life Cycle Phases UPS in normal mode (double conversion) Contribution to eutrophication marine (kg N eq) 2.15E+02 2.54E+02 3.38E+02 4.29E+02 5.02E+02 5.02E+03 6.37E+03 7.47E+03 Contribution to eutrophication, terrestrial (mol N eq) 3.19E+03 3.77E + 03Contribution to photochemical ozone formation - human 6.92E+02 8.15E+02 1.09E+03 1.38E+03 1.61E+03 health (kg COVNM eg) Contribution to resource use, minerals and metals (kgSbeq) 8.26E-01 8.87E-01 1.03E+00 1.27E+00 1.42E+00 Total use of primary energy (MJ) 9.81E+06 1.16E+07 1.55E+07 1.97E+07 2.31E+07 Contribution to water use (m3 eq) 2.23E+04 2.52E+04 3.16E+04 3.95E+04 4.54E+04

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Verifier accreditation N°		Supplemented by	PSR-0010-ed1.1-2015 10 16						
Date of issue	2023/08/18	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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