Product Environmental Profile

Easy UPS 3L







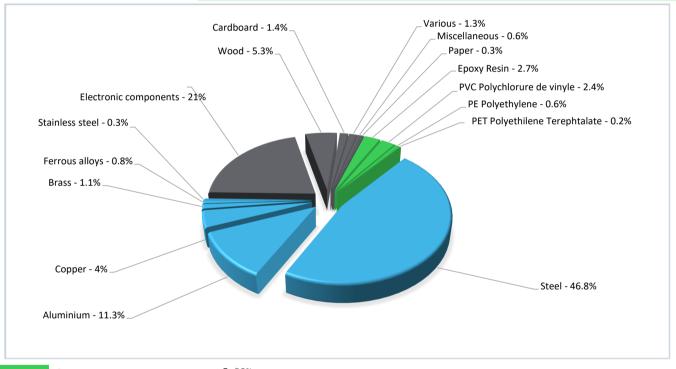
General information

Reference product	Easy UPS 3L - E3LUPS500KH							
	Eddy 61 6 62 E6261 6666111							
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							
	I I Voe	Weight with Dimension (mm) Output performance UPS rating ckaging (kg) HxWxD classification (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						
Joseph Grand Grand	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 Easy UPS 3L 600 kVA 400 V, Start-up 5x8 745	688 1970x1000x850 500 kW/kVA 800 1970x1000x850 600 kW/kVA						
	Lasy or 3 SE 000 KVA 400 V, Start-up 3x0 1743	000 1970X1000X030 000 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 outage.							

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/

(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							
Installation elements	The disposal of the packaging materials is accounted for 7% during the installation phase (including transport to disposal).							
	Power consumption conf	orms to the requirements	in PSR0010-ed1	.1-EN-20)15_10_16_UI	PS:		
		Load rate		25%	50%	75%	100%	
		Proportion of time at s	pecified load	0.25	0.5	0.25	0	
	The referent UPS is mod	eled to operate in normal	mode (average e	efficiency	of 95.3% and	annual use	of 103,916	6kWh) 100% of the time
Use scenario	after 15 years.	Type (400V UPS system)			erage energy efficiency	Electricity consumption (kWh over 15 years)		
		Easy UPS 3L 250 kVA 400 V, Start-up 5x8			95.3%	774,849		
		Easy UPS 3L 300 kVA 400 V, Start-up 5x8			95.3%	916,515		
		Easy UPS 3L 400 kVA 4			95.4%	1,226,619		
		Easy UPS 3L 500 kVA 4			95.3%	1,558,733		
		Easy UPS 3L 600 kVA 4	00 V, Start-up 5x8	3	95.4%	1,830,0	74	
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							
	[A1 -	· A3]	[A5]			[B6]		[C1 - C4]
Energy model used	Electricity Mix; Production mix; Low voltage; CN Electricity Mix; Low voltage; CN					ectricity Mix; Production ix; Low voltage; UE-27		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	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits**
Impact indicators			[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 esources	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 ackaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

 $^{^{\}star}$ 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 - http://www.schneider-electric.com/contact

^{**} 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						
	kW rating	250	300	400	500	600	
Product information	Weight with Packaging (kg)	470	503	584	688	800	
	Contribution to climate change (kg CO2 eq)	3.26E+05	3.84E+05	5.13E+05	6.51E+05	7.64E+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	Contribution to eutrophication marine (kg N eq)	2.15E+02	2.54E+02	3.38E+02	4.29E+02	5.02E+02	
UPS in normal mode (double conversion)	Contribution to eutrophication, terrestrial (mol N eq)	3.19E+03	3.77E+03	5.02E+03	6.37E+03	7.47E+03	
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	6.92E+02	8.15E+02	1.09E+03	1.38E+03	1.61E+03	
	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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		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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