

Product Environmental Profile

Easy UPS 3M

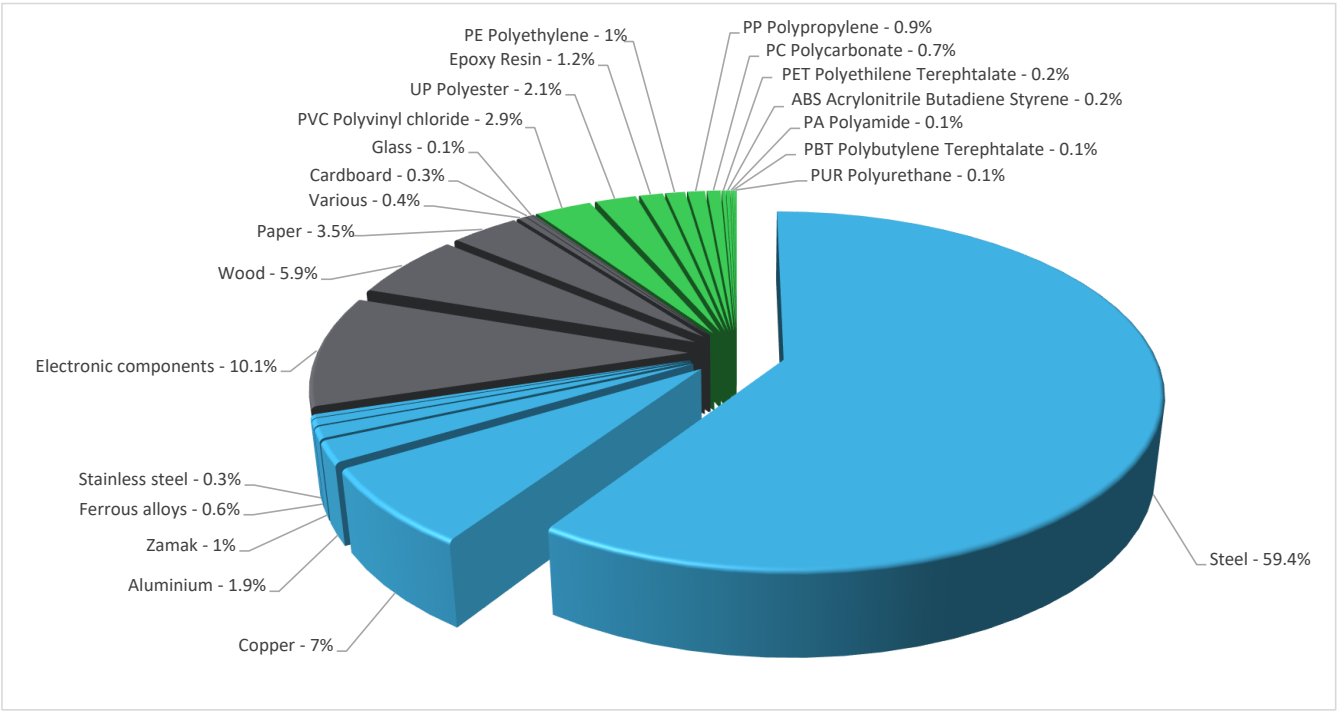


General information

Reference product	Easy UPS 3M - E3MUPS200KH						
Description of the product	The Schneider Electric Easy UPS 3M is an easy-to-install, easy-to-connect, easy-to-use, and easy-to-service 60-200KVA 3 phase UPS for small and medium data centers and other business critical applications.						
Description of the range	The products of the range are: Easy UPS 3M 60-200KVA 400V and 50-100kVA 208V UPS for external batteries The representative product of the range is: E3MUPS200KH						
	Linked products	Type	Net weight (kg)	Weight with packaging (kg)	Dimension (mm) HxWxD	Output performance classification	UPS rating (PF=1)
	E3MUPS60KHS	Easy UPS 3M 60 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	109	133	915x360x850	VFI-SS-111	60 kW/kVA
	E3MUPS80KHS	Easy UPS 3M 80 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	140	164	915x360x850		80 kW/kVA
	E3MUPS100KHS	Easy UPS 3M 100 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	145	169	915x360x850		100 kW/kVA
	E3MUPS120KHS	Easy UPS 3M 120 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	193	223	1300x500x850		120 kW/kVA
	E3MUPS160KHS	Easy UPS 3M 160 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	227	257	1300x500x850		160 kW/kVA
	E3MUPS200KHS	Easy UPS 3M 200 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	304	338	1300x500x850		200 kW/kVA
	E3MUPS60KHBS	Easy UPS 3M 60 kVA 400 V 3:3 UPS for internal batteries, Startup 5x8	311	360	1970x600x1000		60 kW/kVA
	E3MUPS60KHB1S	Easy UPS 3M 60 kVA 400 V 3:3 UPS, 3 internal 9Ah modular battery string, expandable to 6, Startup 5x8	635	696	1970x600x1000		60 kW/kVA
	E3MUPS60KHB2S	Easy UPS 3M 60 kVA 400 V 3:3 UPS, 4 internal 9Ah modular battery string, expandable to 6, Startup 5x8	743	808	1970x600x1000		60 kW/kVA
	E3MUPS80KHBS	Easy UPS 3M 80 kVA 400 V 3:3 UPS for internal batteries, Startup 5x8	339	387	1970x600x1000		80 kW/kVA
	E3MUPS80KHB1S	Easy UPS 3M 80 kVA 400 V 3:3 UPS, 4 internal 9Ah modular battery string, expandable to 6, Startup 5x8	771	835	1970x600x1000		80 kW/kVA
	E3MUPS80KHB2S	Easy UPS 3M 80 kVA 400 V 3:3 UPS, 6 internal 9Ah modular battery string, Startup 5x8	987	1059	1970x600x1000		80 kW/kVA
	E3MUPS50KFNS	Easy UPS 3M 50 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	145	169	915x360x850		50 kW/kVA
	E3MUPS60KFNS	Easy UPS 3M 60 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	193	223	1300x500x850		60 kW/kVA
	E3MUPS80KFNS	Easy UPS 3M 80 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	227	257	1300x500x850		80 kW/kVA
	E3MUPS100KFNS	Easy UPS 3M 100 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	304	338	1300x500x850		100 kW/kVA
Functional unit	To ensure the supply of power to remain within specified characteristics to equipment with load of 200kW for a RSL of 15 year.						

Constituent materials

Reference product mass	338 kg	including the product, its packaging and additional elements and accessories
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Plastics	9.50%
Metals	70.20%
Others	20.30%



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.
REACH 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/vw/en/work/support/green-premium/>



Additional environmental information

End Of Life	Recyclability potential:	76%	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.
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Environmental impacts

Reference service life time	15 years													
Product category	Uninterruptible Power Supply (UPS) - without energy storage system incorporated - P > 10000W													
Installation elements	The product does not need specific tools or services, only packaging of the product needs to be eliminated.													
Use scenario	Power consumption conforms to the requirements in PSR-0010-ed2-EN-2023 12 08_UPS:													
	<table><tr><td>Load rate</td><td>25%</td><td>50%</td><td>75%</td><td>100%</td></tr><tr><td>Proportion of time at specified load</td><td>0.25</td><td>0.5</td><td>0.25</td><td>0</td></tr></table>	Load rate	25%	50%	75%	100%	Proportion of time at specified load	0.25	0.5	0.25	0			
	Load rate	25%	50%	75%	100%									
	Proportion of time at specified load	0.25	0.5	0.25	0									
	The referent UPS is modeled to operate in normal mode (average efficiency of 95.5% and annual use of 40,296 kWh) 100% of the time after 15 years.													
		Type (400V UPS system)	Average energy efficiency	Electricity consumption (kWh over 15 years)										
	E3MUPS60KHS	Easy UPS 3M 60 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	95.6%	172,955										
	E3MUPS80KHS	Easy UPS 3M 80 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	95.3%	245,718										
	E3MUPS100KHS	Easy UPS 3M 100 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	95.4%	301,399										
	E3MUPS120KHS	Easy UPS 3M 120 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	95.4%	361,679										
	E3MUPS160KHS	Easy UPS 3M 160 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	96.1%	467,784										
	E3MUPS200KHS	Easy UPS 3M 200 kVA 400 V 3:3 UPS for external batteries, Startup 5x8	95.5%	604,440										
	E3MUPS60KHB5	Easy UPS 3M 60 kVA 400 V 3:3 UPS for internal batteries, Startup 5x8	95.5%	179,361										
	E3MUPS60KHB1S	Easy UPS 3M 60 kVA 400 V 3:3 UPS, 3 internal 9Ah modular battery string, expandable to 6, Startup 5x8	95.5%	179,361										
	E3MUPS60KHB2S	Easy UPS 3M 60 kVA 400 V 3:3 UPS, 4 internal 9Ah modular battery string, expandable to 6, Startup 5x8	95.5%	179,361										
	E3MUPS80KHB5	Easy UPS 3M 80 kVA 400 V 3:3 UPS for internal batteries, Startup 5x8	95.3%	245,061										
	E3MUPS80KHB1S	Easy UPS 3M 80 kVA 400 V 3:3 UPS, 4 internal 9Ah modular battery string, expandable to 6, Startup 5x8	95.3%	245,061										
	E3MUPS80KHB2S	Easy UPS 3M 80 kVA 400 V 3:3 UPS, 6 internal 9Ah modular battery string, Startup 5x8	95.3%	245,061										
		Type (208V UPS system)	Average energy efficiency	Electricity consumption (kWh over 15 years)										
E3MUPS50KFNS	Easy UPS 3M 50 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	93.3%	224,201											
E3MUPS60KFNS	Easy UPS 3M 60 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	92.9%	285,795											
E3MUPS80KFNS	Easy UPS 3M 80 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	93.1%	373,833											
E3MUPS100KFNS	Easy UPS 3M 100 kVA 208 V 3:3 UPS for external batteries, Startup 5x8	92.7%	490,286											
Time representativeness	The collected data are representative of the year 2024													
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and repr�sentative of the actual type of technologies used to make the product.													
Geographical representativeness	Europe													
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]										
	Electricity Mix; Low voltage; 2018; China, CN	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27										

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>

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

Mandatory Indicators		Easy UPS 3M - E3MUPS200KH						
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	2.52E+05	3.20E+03	1.34E+02	3.78E+01	2.48E+05	8.21E+02	-8.00E+02
Contribution to climate change-fossil	kg CO2 eq	2.51E+05	3.11E+03	1.34E+02	0*	2.47E+05	8.13E+02	-7.95E+02
Contribution to climate change-biogenic	kg CO2 eq	4.53E+02	8.38E+01	0*	3.07E+01	3.30E+02	8.41E+00	-5.56E+00
Contribution to climate change-land use and land use change	kg CO2 eq	3.24E-03	3.16E-03	0*	0*	0*	7.69E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.46E-03	3.96E-04	1.81E-07	0*	1.06E-03	3.08E-06	-1.31E-04
Contribution to acidification	mol H+ eq	1.45E+03	2.63E+01	3.65E+00	0*	1.41E+03	2.76E+00	-7.76E+00
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	8.78E-01	5.35E-02	0*	0*	6.78E-01	1.46E-01	-1.27E-03
Contribution to eutrophication marine	kg N eq	1.64E+02	2.30E+00	9.13E-01	0*	1.61E+02	5.61E-01	-4.82E-01
Contribution to eutrophication, terrestrial	mol N eq	2.46E+03	2.55E+01	1.00E+01	0*	2.41E+03	6.26E+00	-5.61E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.29E+02	9.02E+00	2.57E+00	0*	5.16E+02	1.98E+00	-2.14E+00
Contribution to resource use, minerals and metals	kg Sb eq	7.68E-01	7.45E-01	0*	0*	1.79E-02	4.62E-03	-2.55E-01
Contribution to resource use, fossils	MJ	6.42E+06	6.86E+04	1.73E+03	0*	6.31E+06	4.25E+04	-1.76E+04
Contribution to water use	m3 eq	1.09E+04	1.78E+03	0*	5.06E+00	8.77E+03	3.43E+02	-4.69E+02

Inventory flows Indicators		Easy UPS 3M - E3MUPS200KH						
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	1.21E+06	1.40E+03	0*	0*	1.21E+06	0*	-2.17E+02
Contribution to use of renewable primary energy resources used as raw material	MJ	8.02E+02	8.02E+02	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	1.21E+06	2.20E+03	0*	0*	1.21E+06	0*	-2.17E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.42E+06	6.73E+04	1.73E+03	0*	6.31E+06	4.25E+04	-1.76E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.32E+03	1.32E+03	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	6.42E+06	6.86E+04	1.73E+03	0*	6.31E+06	4.25E+04	-1.76E+04
Contribution to use of secondary material	kg	4.96E-02	4.96E-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	2.54E+02	4.14E+01	0*	1.18E-01	2.04E+02	7.98E+00	-1.09E+01
Contribution to hazardous waste disposed	kg	4.03E+04	3.56E+04	0*	0*	4.63E+03	3.22E+01	-2.04E+04
Contribution to non hazardous waste disposed	kg	3.72E+04	1.43E+03	4.23E+00	3.44E+01	3.56E+04	6.05E+01	-5.95E+02
Contribution to radioactive waste disposed	kg	8.17E+00	6.94E-01	2.96E-03	0*	7.46E+00	8.15E-03	-2.71E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.86E+02	6.77E+01	0*	0*	0*	2.19E+02	0.00E+00
Contribution to materials for energy recovery	kg	2.36E-07	2.36E-07	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	6.88E+00	4.71E+00	0*	0*	0*	2.16E+00	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 of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.21E+01

**** 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.***

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

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

400V UPS system							Referent product
Easy UPS 3M 3:3 UPS for external batteries							
kW rating		60	80	100	120	160	200
Product information	Weight with Packaging (kg)	133	164	169	223	257	338
Compulsory environmental indicators Total of Life Cycle Phases UPS in normal mode (double conversion)	Contribution to climate change (kg CO2 eq)	7.09E+04	1.01E+05	1.24E+05	1.48E+05	1.92E+05	2.52E+05
	Contribution to Ozone depletion (kg CFC11 eq)	3.03E-04	4.31E-04	5.28E-04	6.34E-04	8.20E-04	1.46E-03
	Contribution to Acidification (mol H+ eq)	4.05E+02	5.75E+02	7.05E+02	8.46E+02	1.09E+03	1.45E+03
	Contribution to eutrophication, freshwater (kg PO43- eq)	1.94E-01	2.76E-01	3.38E-01	4.06E-01	5.25E-01	8.78E-01
	Contribution to eutrophication marine (kg N eq)	4.60E+01	6.53E+01	8.01E+01	9.61E+01	1.24E+02	1.64E+02
	Contribution to eutrophication, terrestrial (mol N eq)	6.91E+02	9.81E+02	1.20E+03	1.44E+03	1.87E+03	2.46E+03
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	1.48E+02	2.10E+02	2.57E+02	3.09E+02	3.99E+02	5.29E+02
	Contribution to resource use, minerals and metals (kgSbeq)	5.43E-03	7.66E-03	9.32E-03	1.12E-02	1.45E-02	7.68E-01
	Total use of primary energy (MJ)	2.15E+06	3.06E+06	3.75E+06	4.50E+06	5.82E+06	7.64E+06
	Contribution to water use (m3 eq)	2.51E+03	3.56E+03	4.37E+03	5.25E+03	6.79E+03	1.09E+04

400V UPS system							
Easy UPS 3M 3:3 UPS for internal batteries							
kW rating		60			80		
Product information	Quantity modular battery string	0	3	4	0	4	6
	Weight with Packaging (kg)	360	696	808	387	835	1059
Compulsory environmental indicators Total of Life Cycle Phases UPS in normal mode (double conversion)	Contribution to climate change (kg CO2 eq)	7.35E+04	7.35E+04	7.35E+04	1.00E+05	1.00E+05	1.00E+05
	Contribution to Ozone depletion (kg CFC11 eq)	3.15E-04	3.15E-04	3.15E-04	4.30E-04	4.30E-04	4.31E-04
	Contribution to Acidification (mol H+ eq)	4.20E+02	4.20E+02	4.20E+02	5.73E+02	5.73E+02	5.73E+02
	Contribution to eutrophication, freshwater (kg PO43- eq)	2.01E-01	2.02E-01	2.02E-01	2.75E-01	2.75E-01	2.76E-01
	Contribution to eutrophication marine (kg N eq)	4.77E+01	4.77E+01	4.77E+01	6.51E+01	6.51E+01	6.51E+01
	Contribution to eutrophication, terrestrial (mol N eq)	7.16E+02	7.16E+02	7.16E+02	9.78E+02	9.78E+02	9.79E+02
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	1.53E+02	1.53E+02	1.53E+02	2.09E+02	2.09E+02	2.09E+02
	Contribution to resource use, minerals and metals (kgSbeq)	6.12E-03	6.87E-03	7.12E-03	8.13E-03	9.13E-03	9.63E-03
	Total use of primary energy (MJ)	2.23E+06	2.23E+06	2.23E+06	3.05E+06	3.05E+06	3.05E+06
	Contribution to water use (m3 eq)	2.60E+03	2.61E+03	2.61E+03	3.56E+03	3.56E+03	3.56E+03

208V UPS system		Easy UPS 3M 3:3 UPS for external batteries			
	kW rating	50	60	80	100
Product information	Weight with Packaging (kg)	169	223	257	338
Compulsory environmental indicators Total of Life Cycle Phases UPS in normal mode (double conversion)	Contribution to climate change (kg CO2 eq)	9.19E+04	1.17E+05	1.53E+05	2.01E+05
	Contribution to Ozone depletion (kg CFC11 eq)	3.93E-04	5.01E-04	6.55E-04	8.60E-04
	Contribution to Acidification (mol H+ eq)	5.24E+02	6.68E+02	8.74E+02	1.15E+03
	Contribution to eutrophication, freshwater (kg PO43- eq)	2.52E-01	3.21E-01	4.20E-01	5.50E-01
	Contribution to eutrophication marine (kg N eq)	5.96E+01	7.59E+01	9.93E+01	1.30E+02
	Contribution to eutrophication, terrestrial (mol N eq)	8.95E+02	1.14E+03	1.49E+03	1.96E+03
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	1.91E+02	2.44E+02	3.19E+02	4.18E+02
	Contribution to resource use, minerals and metals (kgSbeq)	7.03E-03	8.98E-03	1.17E-02	1.53E-02
	Total use of primary energy (MJ)	2.79E+06	3.56E+06	4.65E+06	6.10E+06
	Contribution to water use (m3 eq)	3.25E+03	4.15E+03	5.42E+03	7.11E+03

Registration number :	ENVPEP2204008_V2-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
Date of issue	07-2024	Supplemented by	PSR-0010-ed2-EN-2023 12 08
		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)			
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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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