

# Product Environmental Profile

## Easy UPS 3S Pro

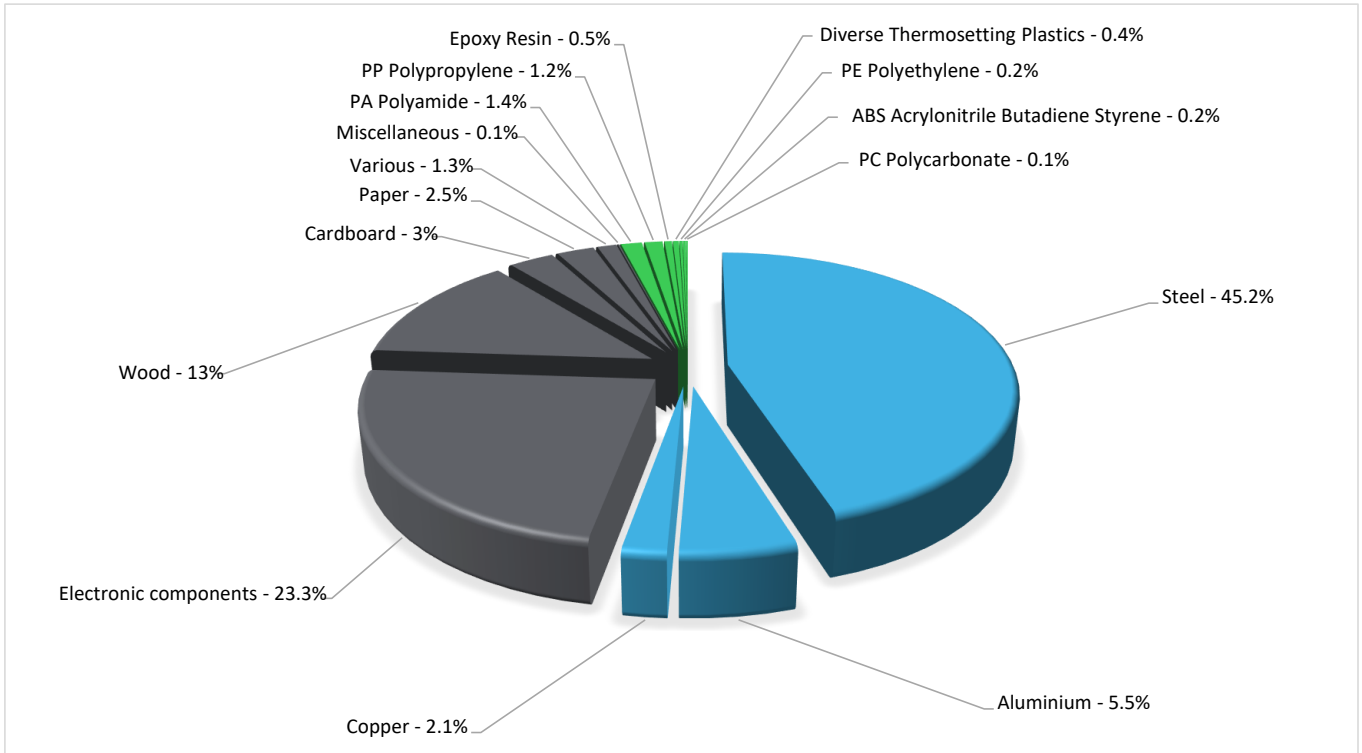


## General information

Reference product	Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries - E3SP40KH																																						
Description of the product	Easy UPS 3S Pro 10-40 kVA (400V) for External Batteries, a distributed product designed to meet the growing needs of our commercial and industrial customers. Sold primarily through Schneider Electric's partners and distributors, this UPS is ideal for non-IT applications that demand reliable power in critical environments.																																						
Description of the range	<p>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. Easy UPS 3S Pro</p> <p>The products of the range are: E3SP10KH, E3SP15KH, E3SP20KH, E3SP30KH, E3SP40KH</p> <table border="1"> <thead> <tr> <th>Linked products</th> <th>Type</th> <th>Net weight (kg)</th> <th>Weight with packaging (kg)</th> <th>Dimension (mm) HxWxD</th> <th>Output performance classification</th> <th>UPS rating (PF=1)</th> </tr> </thead> <tbody> <tr> <td>E3SP10KH</td> <td>Easy UPS 3S Pro 10 kVA 400 V 3:3 UPS for external batteries</td> <td>35</td> <td>50</td> <td>660mmX629mmX250 mm</td> <td rowspan="5">VFI SS 111</td> <td>10 kW/kVA</td> </tr> <tr> <td>E3SP15KH</td> <td>Easy UPS 3S Pro 15 kVA 400 V 3:3 UPS for external batteries</td> <td>36</td> <td>51</td> <td>660mmX629mmX250 mm</td> <td>15 kW/kVA</td> </tr> <tr> <td>E3SP20KH</td> <td>Easy UPS 3S Pro 20 kVA 400 V 3:3 UPS for external batteries</td> <td>37</td> <td>52</td> <td>660mmX629mmX250 mm</td> <td>20 kW/kVA</td> </tr> <tr> <td>E3SP30KH</td> <td>Easy UPS 3S Pro 30 kVA 400 V 3:3 UPS for external batteries</td> <td>56</td> <td>69</td> <td>916mmX796mmX250 mm</td> <td>30 kW/kVA</td> </tr> <tr> <td>E3SP40KH</td> <td>Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries</td> <td>59</td> <td>73</td> <td>916mmX796mmX250mm</td> <td>40 kW/kVA</td> </tr> </tbody> </table>	Linked products	Type	Net weight (kg)	Weight with packaging (kg)	Dimension (mm) HxWxD	Output performance classification	UPS rating (PF=1)	E3SP10KH	Easy UPS 3S Pro 10 kVA 400 V 3:3 UPS for external batteries	35	50	660mmX629mmX250 mm	VFI SS 111	10 kW/kVA	E3SP15KH	Easy UPS 3S Pro 15 kVA 400 V 3:3 UPS for external batteries	36	51	660mmX629mmX250 mm	15 kW/kVA	E3SP20KH	Easy UPS 3S Pro 20 kVA 400 V 3:3 UPS for external batteries	37	52	660mmX629mmX250 mm	20 kW/kVA	E3SP30KH	Easy UPS 3S Pro 30 kVA 400 V 3:3 UPS for external batteries	56	69	916mmX796mmX250 mm	30 kW/kVA	E3SP40KH	Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries	59	73	916mmX796mmX250mm	40 kW/kVA
Linked products	Type	Net weight (kg)	Weight with packaging (kg)	Dimension (mm) HxWxD	Output performance classification	UPS rating (PF=1)																																	
E3SP10KH	Easy UPS 3S Pro 10 kVA 400 V 3:3 UPS for external batteries	35	50	660mmX629mmX250 mm	VFI SS 111	10 kW/kVA																																	
E3SP15KH	Easy UPS 3S Pro 15 kVA 400 V 3:3 UPS for external batteries	36	51	660mmX629mmX250 mm		15 kW/kVA																																	
E3SP20KH	Easy UPS 3S Pro 20 kVA 400 V 3:3 UPS for external batteries	37	52	660mmX629mmX250 mm		20 kW/kVA																																	
E3SP30KH	Easy UPS 3S Pro 30 kVA 400 V 3:3 UPS for external batteries	56	69	916mmX796mmX250 mm		30 kW/kVA																																	
E3SP40KH	Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries	59	73	916mmX796mmX250mm		40 kW/kVA																																	
Declared unit	To protect the load of 40 kW against input power failure during 15 years and switch to the energy storage system to avoid power outage																																						

## Constituent materials

Reference product mass 73 kg including the product, its packaging, additional elements and accessories



Plastics	4.0%
Metals	52.8%
Others	43.2%

## 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 Regulation compliance	The battery within this product range are designed in conformity with the requirements of the Battery Regulation (REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023).

Details of ROHS and REACH substances information are available on the Schneider-Electric website <https://www.se.com>



## Additional environmental information

End Of Life	Recyclability potential:	64%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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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				
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study				
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption				
Installation elements	Installation of UPS 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:				
	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 95.9% and annual use of 7095.6kWh) 100% of the time after 15 years.				
	Linked products	Type (400V UPS system)	Double conversion		
		Average energy efficiency	Electricity consumption (kWh over 15 years)		
E3SP10KH*	Easy UPS 3S Pro 10 kVA 400 V 3:3 UPS for external batteries	95.7%	27,512		
E3SP15KH	Easy UPS 3S Pro 15 kVA 400 V 3:3 UPS for external batteries	95.7%	41,391		
E3SP20KH	Easy UPS 3S Pro 20 kVA 400 V 3:3 UPS for external batteries	95.9%	52,889		
E3SP30KH	Easy UPS 3S Pro 30 kVA 400 V 3:3 UPS for external batteries	95.8%	82,289		
E3SP40KH	Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries	95.9%	106,434		
* for the range consistency, 10kW model uses the same efficiency method and lifetime as the rest models of the Easy UPS 3S Pro range.					
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 representative of the actual type of technologies used to make the product.				
Geographical representativeness	Final assembly site	Use phase		End-of-life	
	China	China		China	
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]	
	Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; China, CN	Global, European and French datasets are used.	

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.se.com/contact>

Mandatory Indicators		Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries - E3SP40KH						
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	8.90E+04	8.08E+02	1.14E+02	1.79E+01	8.79E+04	1.68E+02	-1.89E+02
Contribution to climate change-fossil	kg CO2 eq	8.89E+04	8.08E+02	1.14E+02	0*	8.79E+04	1.67E+02	-1.87E+02
Contribution to climate change-biogenic	kg CO2 eq	9.46E+01	6.09E-01	0*	1.60E+01	7.69E+01	9.79E-01	-2.30E+00
Contribution to climate change-land use and land use change	kg CO2 eq	1.06E-04	1.01E-04	0*	0*	0*	5.41E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	6.22E-04	1.13E-04	1.75E-07	0*	5.09E-04	3.59E-07	-2.78E-05
Contribution to acidification	mol H+ eq	6.71E+02	6.09E+00	1.18E+00	0*	6.63E+02	4.47E-01	-1.39E+00
Contribution to eutrophication, freshwater	kg P eq	3.88E-02	5.32E-03	3.60E-04	7.93E-06	2.24E-02	1.07E-02	-4.16E-04
Contribution to eutrophication, marine	kg N eq	7.22E+01	6.37E-01	5.54E-01	0*	7.09E+01	1.05E-01	-1.09E-01
Contribution to eutrophication, terrestrial	mol N eq	8.27E+02	6.93E+00	6.08E+00	0*	8.13E+02	1.14E+00	-1.25E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.41E+02	2.38E+00	1.50E+00	0*	2.36E+02	3.56E-01	-4.45E-01
Contribution to resource use, minerals and metals	kg Sb eq	1.35E-01	1.26E-01	0*	0*	8.91E-03	3.34E-04	-4.36E-02
Contribution to resource use, fossils	MJ	1.47E+06	1.62E+04	1.64E+03	0*	1.44E+06	7.35E+03	-3.85E+03
Contribution to water use	m3 eq	5.42E+03	2.72E+02	3.36E+00	2.27E+00	5.10E+03	4.71E+01	-7.90E+01

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Inventory flows Indicators		Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries - E3SP40KH							
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 renewable primary energy used as energy	MJ	1.53E+05	3.08E+02	0*	0*	1.52E+05	0*	-6.72E+01	
Contribution to renewable primary energy used as raw material	MJ	2.94E+02	2.94E+02	0*	0*	0*	0*	0.00E+00	
Contribution to total renewable primary energy	MJ	1.53E+05	6.02E+02	0*	0*	1.52E+05	0*	-6.72E+01	
Contribution to non renewable primary energy used as energy	MJ	1.47E+06	1.59E+04	1.64E+03	0*	1.44E+06	7.35E+03	-3.85E+03	
Contribution to non renewable primary energy used as raw material	MJ	2.87E+02	2.87E+02	0*	0*	0*	0*	0.00E+00	
Contribution to total non renewable primary energy	MJ	1.47E+06	1.62E+04	1.64E+03	0*	1.44E+06	7.35E+03	-3.85E+03	
Contribution to use of secondary material	kg	1.32E-03	1.32E-03	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 fresh water	m³	1.26E+02	6.33E+00	7.83E-02	5.30E-02	1.19E+02	1.10E+00	-1.84E+00	
Contribution to hazardous waste disposed	kg	7.75E+03	5.00E+03	0*	0*	2.73E+03	1.73E+01	-3.47E+03	
Contribution to non hazardous waste disposed	kg	1.68E+04	4.41E+02	0*	1.53E+01	1.64E+04	6.31E+00	-2.04E+02	
Contribution to radioactive waste disposed	kg	8.85E-01	2.21E-01	0*	3.60E-04	6.64E-01	5.67E-04	-1.25E-01	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	5.07E+01	1.11E+01	0*	0*	0*	3.96E+01	0.00E+00	
Contribution to materials for energy recovery	kg	4.36E-08	4.36E-08	0*	0*	0*	0*	0.00E+00	
Contribution to exported energy	MJ	1.28E+00	8.85E-01	0*	0*	0*	3.92E-01	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	5.28E+00

\* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries - E3SP40KH							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	8.79E+04	0*	0*	0*	0*	0*	8.79E+04	0*
Contribution to climate change-fossil	kg CO2 eq	8.79E+04	0*	0*	0*	0*	0*	8.79E+04	0*
Contribution to climate change-biogenic	kg CO2 eq	7.69E+01	0*	0*	0*	0*	0*	7.69E+01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	5.09E-04	0*	0*	0*	0*	0*	5.09E-04	0*
Contribution to acidification	mol H+ eq	6.63E+02	0*	0*	0*	0*	0*	6.63E+02	0*
Contribution to eutrophication, freshwater	kg P eq	2.24E-02	0*	0*	0*	0*	0*	2.24E-02	0*
Contribution to eutrophication marine	kg N eq	7.09E+01	0*	0*	0*	0*	0*	7.09E+01	0*
Contribution to eutrophication, terrestrial	mol N eq	8.13E+02	0*	0*	0*	0*	0*	8.13E+02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.36E+02	0*	0*	0*	0*	0*	2.36E+02	0*
Contribution to resource use, minerals and metals	kg Sb eq	8.91E-03	0*	0*	0*	0*	0*	8.91E-03	0*
Contribution to resource use, fossils	MJ	1.44E+06	0*	0*	0*	0*	0*	1.44E+06	0*
Contribution to water use	m3 eq	5.10E+03	0*	0*	0*	0*	0*	5.10E+03	0*

Inventory flows Indicators		Easy UPS 3S Pro 40 kVA 400 V 3:3 UPS for external batteries - E3SP40KH							
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	1.52E+05	0*	0*	0*	0*	0*	1.52E+05	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	1.52E+05	0*	0*	0*	0*	0*	1.52E+05	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.44E+06	0*	0*	0*	0*	0*	1.44E+06	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	1.44E+06	0*	0*	0*	0*	0*	1.44E+06	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	m³	1.19E+02	0*	0*	0*	0*	0*	1.19E+02	0*
Contribution to hazardous waste disposed	kg	2.73E+03	0*	0*	0*	0*	0*	2.73E+03	0*
Contribution to non hazardous waste disposed	kg	1.64E+04	0*	0*	0*	0*	0*	1.64E+04	0*
Contribution to radioactive waste disposed	kg	6.64E-01	0*	0*	0*	0*	0*	6.64E-01	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 v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 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.

## Extrapolated Data

		Easy UPS 3S Pro	10kW	15kW	20kW	30kW	40kW	Referent product
Product information	Product		E3SP10KH	E3SP15KH	E3SP20KH	E3SP30KH	E3SP40KH	
	Weight with Packaging (kg)		50	51	52	69	73	
Compulsory environmental indicators (UPS in double conversion mode)	Contribution to climate change (kg CO2 eq)		2.35E+04	3.50E+04	4.45E+04	6.90E+04	8.90E+04	
	Contribution to Ozone depletion (kg CFC11 eq)		2.09E-04	2.77E-04	3.33E-04	5.00E-04	6.22E-04	
	Contribution to Acidification (mol H+ eq)		1.77E+02	2.63E+02	3.35E+02	5.20E+02	6.71E+02	
	Contribution to eutrophication, freshwater (kg PO43- eq)		1.70E-02	2.02E-02	2.28E-02	3.28E-02	3.88E-02	
	Contribution to eutrophication marine (kg N eq)		1.92E+01	2.85E+01	3.61E+01	5.60E+01	7.22E+01	
	Contribution to eutrophication, terrestrial (mol N eq)		2.20E+02	3.26E+02	4.14E+02	6.42E+02	8.27E+02	
	Contribution to photochemical ozone formation - human health (kg COVNM eq)		6.40E+01	9.49E+01	1.20E+02	1.87E+02	2.41E+02	
	Contribution to resource use, minerals and metals (kgSbeq)		8.88E-02	9.17E-02	9.44E-02	1.26E-01	1.35E-01	
	Total use of primary energy (MJ)		3.90E+05	5.79E+05	7.35E+05	1.14E+06	1.47E+06	
	Contribution to water use (m3 eq)		1.54E+03	2.21E+03	2.76E+03	4.25E+03	5.42E+03	

Registration number :	ENVPEP2412050_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	02-2025	Supplemented by	PSR-0010-ed2-EN-2023 12 08
		Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal  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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