

Product Environmental Profile

Easy UPS 3S Pro for internal batteries



Schneider
Electric



General information

Reference product	Easy UPS 3S Pro 40kVA 400V 3:3 UPS for internal batteries - E3SP40KHB						
Description of the product	Easy UPS 3S Pro 10-40 kVA (400V) with Internal 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.</p> <p>The products of the range are: Easy UPS 3S Pro</p>						
	Linked products	Description	Net weight (kg)	Weight with packaging (kg)	Dimension (mm) HxWxD	Output performance classification	UPS rating (PF=1)
	E3SP10KHB	Easy UPS 3S Pro 10kVA 400V 3:3 UPS for internal batteries	106	118	1400x380x900	VFI SS 111	10kW/kVA
	E3SP15KHB	Easy UPS 3S Pro 15kVA 400V 3:3 UPS for internal batteries	111	123	1400x380x900		15kW/kVA
	E3SP20KHB	Easy UPS 3S Pro 20kVA 400V 3:3 UPS for internal batteries	141	153	1400x380x900		20kW/kVA
	E3SP30KHB	Easy UPS 3S Pro 30kVA 400V 3:3 UPS for internal batteries	153	165.5	1400x502x965		30kW/kVA
	E3SP40KHB	Easy UPS 3S Pro 40kVA 400V 3:3 UPS for internal batteries	167	176.5	1400x502x965		40kW/kVA

*The environmental impact analysis presented in this report does not include data on batteries, as the number and model of batteries may be selected by customers. The available options are the E3SBTH4 and E3SBT4 (product references), which provide the longest backup time of up to 10 minutes at 100% load. For environmental impact data regarding battery components, please refer to the respective battery environmental reports.

Functional unit

To ensure the supply of power without interruption to equipment with load of 100 watts for a RSL of 1 years, including a backup time capacity of 5 minutes during power shortages.

Declare unit

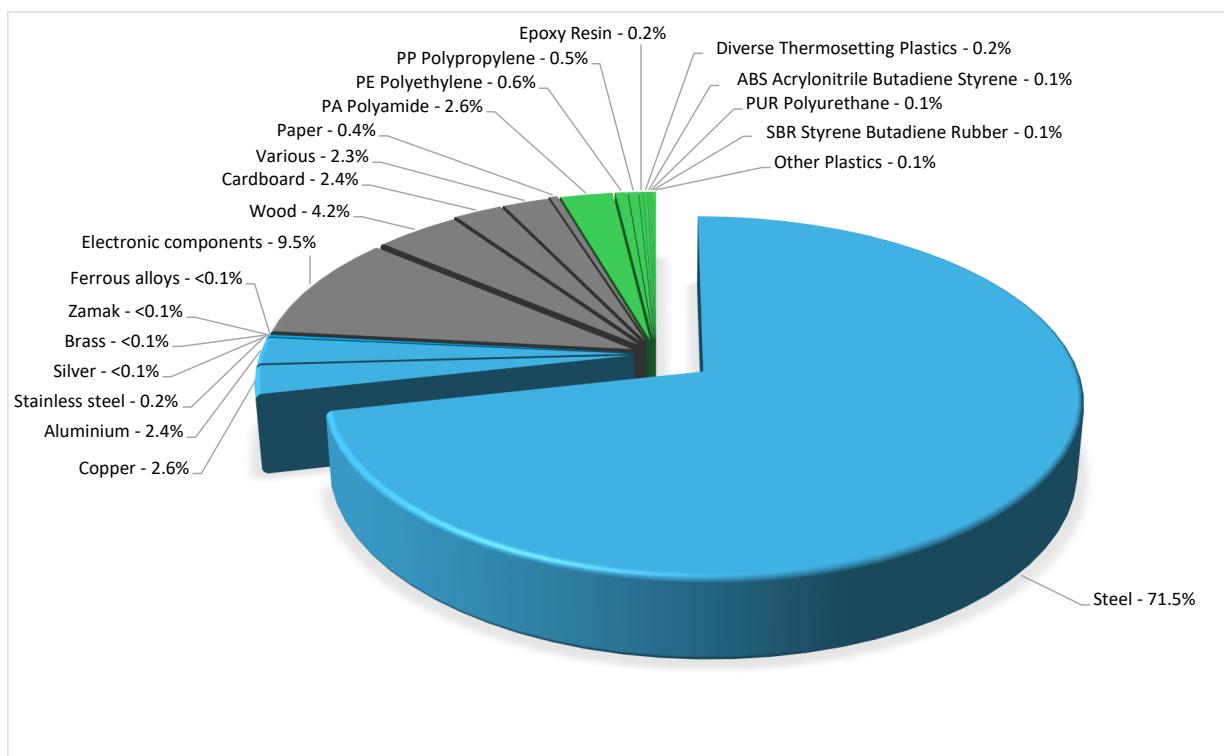
To ensure the supply of power without interruption to equipment with load of 40000 watts for a RSL of 15 years, including a backup time capacity of 10 minutes during power shortages.



Constituent materials

Reference product mass

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



Plastics

4.5%

Metals

76.7%

Others

18.8%



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 website
<https://www.se.com>



Additional environmental information

End Of Life	Recyclability potential:	81%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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) - with 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 consumtum	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: <table border="1"> <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																						
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The referent power module is modeled to operate in normal mode (average efficiency of 95.9% and annual use of 7150.35 kWh) 100% of the time within 15 years.																																				
<table border="1"> <thead> <tr> <th rowspan="2">Linked products</th> <th colspan="2">Type</th> <th colspan="2">Double conversion</th> </tr> <tr> <th colspan="2">Easy UPS 3S Pro for internal batteries</th> <th>Average energy efficiency</th> <th>Electricity consumption (kWh over 15 years)</th> </tr> </thead> <tbody> <tr> <td>E3SP10KHB</td> <td colspan="2">Easy UPS 3S Pro 10kVA 400V 3:3 UPS for internal batteries</td> <td>95.7%</td> <td>27,586</td> </tr> <tr> <td>E3SP15KHB</td> <td colspan="2">Easy UPS 3S Pro 15kVA 400V 3:3 UPS for internal batteries</td> <td>95.6%</td> <td>42,648</td> </tr> <tr> <td>E3SP20KHB</td> <td colspan="2">Easy UPS 3S Pro 20kVA 400V 3:3 UPS for internal batteries</td> <td>95.7%</td> <td>55,237</td> </tr> <tr> <td>E3SP30KHB</td> <td colspan="2">Easy UPS 3S Pro 30kVA 400V 3:3 UPS for internal batteries</td> <td>95.7%</td> <td>82,585</td> </tr> <tr> <td>E3SP40KHB</td> <td colspan="2">Easy UPS 3S Pro 40kVA 400V 3:3 UPS for internal batteries</td> <td>95.9%</td> <td>107,255</td> </tr> </tbody> </table>			Linked products	Type		Double conversion		Easy UPS 3S Pro for internal batteries		Average energy efficiency	Electricity consumption (kWh over 15 years)	E3SP10KHB	Easy UPS 3S Pro 10kVA 400V 3:3 UPS for internal batteries		95.7%	27,586	E3SP15KHB	Easy UPS 3S Pro 15kVA 400V 3:3 UPS for internal batteries		95.6%	42,648	E3SP20KHB	Easy UPS 3S Pro 20kVA 400V 3:3 UPS for internal batteries		95.7%	55,237	E3SP30KHB	Easy UPS 3S Pro 30kVA 400V 3:3 UPS for internal batteries		95.7%	82,585	E3SP40KHB	Easy UPS 3S Pro 40kVA 400V 3:3 UPS for internal batteries		95.9%	107,255
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* For the range consistency, 10kVA model uses the same efficiency method and lifetime as the rest models of the Easy UPS 3S Pro.																																				
Time representativeness	The collected data are representative of the year 2025																																			
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 représentative 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>

The calculation result is scientific counting method. For example, $1.37E+06=1.37*10^6=1370000$, $1.64E-04=1.64*10^{-4}=0.000164$

All environmental impacts are calculated for the declared unit, then data should be divided by the factor calculated with formulas listed in PSR-0010-ed2.0-EN 2023 12 08 3.1.3 to get the functional unit result (see the last section).

Mandatory Indicators		E3SP 40 kVA 400 V 3:3 U - E3SP40KHB						
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	9.08E+04	1.65E+03	2.76E+02	1.86E+01	8.86E+04	2.70E+02	-5.33E+02
Contribution to climate change-fossil	kg CO2 eq	9.08E+04	1.68E+03	2.76E+02	0*	8.85E+04	2.66E+02	-5.29E+02
Contribution to climate change-biogenic	kg CO2 eq	7.27E+01	0*	0*	1.22E+01	7.75E+01	4.72E+00	-3.53E+00
Contribution to climate change-land use and land use change	kg CO2 eq	3.15E-04	2.48E-04	0*	0*	0*	6.68E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.80E-04	2.60E-04	4.24E-07	0*	5.12E-04	7.18E-06	-7.93E-05
Contribution to acidification	mol H+ eq	6.84E+02	1.17E+01	2.85E+00	0*	6.69E+02	1.12E+00	-3.79E+00
Contribution to eutrophication, freshwater	kg P eq	2.96E-02	5.03E-03	8.72E-04	0*	2.26E-02	1.11E-03	-9.37E-04
Contribution to eutrophication, marine	kg N eq	7.42E+01	1.22E+00	1.34E+00	0*	7.14E+01	2.13E-01	-3.10E-01
Contribution to eutrophication, terrestrial	mol N eq	8.50E+02	1.35E+01	1.47E+01	0*	8.19E+02	2.39E+00	-3.60E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.47E+02	4.65E+00	3.62E+00	0*	2.38E+02	6.61E-01	-1.28E+00
Contribution to resource use, minerals and metals	kg Sb eq	5.80E-01	5.71E-01	0*	0*	8.98E-03	0*	-1.57E-01
Contribution to resource use, fossils	MJ	1.50E+06	3.39E+04	3.96E+03	0*	1.45E+06	2.97E+03	-1.19E+04
Contribution to water use	m3 eq	5.81E+03	6.34E+02	8.13E+00	1.15E+00	5.14E+03	3.18E+01	-2.44E+02

Inventory flows Indicators		E3SP 40 kVA 400 V 3:3 U - E3SP40KHB						
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	1.55E+05	9.66E+02	0*	0*	1.54E+05	1.53E+02	-1.40E+02
Contribution to renewable primary energy used as raw material	MJ	2.25E+02	2.25E+02	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	1.55E+05	1.19E+03	0*	0*	1.54E+05	1.53E+02	-1.40E+02
Contribution to non renewable primary energy used as energy	MJ	1.50E+06	3.33E+04	3.96E+03	0*	1.45E+06	2.97E+03	-1.19E+04
Contribution to non renewable primary energy used as raw material	MJ	5.77E+02	5.77E+02	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	1.50E+06	3.39E+04	3.96E+03	0*	1.45E+06	2.97E+03	-1.19E+04
Contribution to use of secondary material	kg	3.73E+00	3.73E+00	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	1.36E+02	1.48E+01	1.89E-01	2.68E-02	1.20E+02	9.57E-01	-5.68E+00
Contribution to hazardous waste disposed	kg	2.10E+04	1.82E+04	0*	0*	2.76E+03	1.85E+01	-1.24E+04
Contribution to non hazardous waste disposed	kg	1.74E+04	7.35E+02	0*	5.67E+00	1.65E+04	1.71E+02	-4.85E+02
Contribution to radioactive waste disposed	kg	1.01E+00	3.35E-01	0*	2.60E-04	6.69E-01	8.14E-03	-2.52E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.71E+02	3.85E+01	0*	0*	0*	1.32E+02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	3.24E+00	1.93E+00	0*	0*	0*	1.31E+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	2.56E+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%)



Functional Unit Result

Mandatory Indicators		E3SP 40 KVA 400 V 3:3 U - E3SP40KHB						
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 CO ₂ eq	1.50E+01	1.38E-01	2.30E-02	1.55E-03	1.48E+01	2.25E-02	-4.44E-02
Contribution to climate change-fossil	kg CO ₂ eq	1.49E+01	1.40E-01	2.30E-02	0*	1.48E+01	2.21E-02	-4.41E-02
Contribution to climate change-biogenic	kg CO ₂ eq	1.43E-02	0*	0*	1.02E-03	1.29E-02	3.93E-04	-2.94E-04
Contribution to climate change-land use and land use change	kg CO ₂ eq	2.63E-08	2.07E-08	0*	0*	0*	5.57E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.08E-07	2.16E-08	3.53E-11	0*	8.54E-08	5.99E-10	-6.61E-09
Contribution to acidification	mol H ⁺ eq	1.13E-01	9.75E-04	2.38E-04	0*	1.11E-01	9.35E-05	-3.16E-04
Contribution to eutrophication, freshwater	kg P eq	4.35E-06	4.19E-07	7.26E-08	0*	3.77E-06	9.28E-08	-7.80E-08
Contribution to eutrophication, marine	kg N eq	1.21E-02	1.01E-04	1.12E-04	0*	1.19E-02	1.78E-05	-2.59E-05
Contribution to eutrophication, terrestrial	mol N eq	1.39E-01	1.13E-03	1.22E-03	0*	1.37E-01	2.00E-04	-3.00E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.05E-02	3.87E-04	3.01E-04	0*	3.97E-02	5.51E-05	-1.07E-04
Contribution to resource use, minerals and metals	kg Sb eq	4.91E-05	4.76E-05	0*	0*	1.50E-06	0*	-1.30E-05
Contribution to resource use, fossils	MJ	2.46E+02	2.82E+00	3.30E-01	0*	2.42E+02	2.47E-01	-9.91E-01
Contribution to water use	m ³ eq	9.13E-01	5.28E-02	6.77E-04	9.59E-05	8.56E-01	2.65E-03	-2.03E-02

Inventory flows Indicators		E3SP 40 KVA 400 V 3:3 U - E3SP40KHB						
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	2.57E+01	8.05E-02	0*	0*	2.56E+01	1.27E-02	-1.17E-02
Contribution to renewable primary energy used as raw material	MJ	1.87E-02	1.87E-02	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	2.57E+01	9.92E-02	0*	0*	2.56E+01	1.27E-02	-1.17E-02
Contribution to non renewable primary energy used as energy	MJ	2.46E+02	2.78E+00	3.30E-01	0*	2.42E+02	2.47E-01	-9.91E-01
Contribution to non renewable primary energy used as raw material	MJ	4.81E-02	4.81E-02	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	2.46E+02	2.82E+00	3.30E-01	0*	2.42E+02	2.47E-01	-9.91E-01
Contribution to use of secondary material	kg	3.11E-04	3.11E-04	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	m ³	2.13E-02	1.23E-03	1.58E-05	2.23E-06	1.99E-02	7.98E-05	-4.73E-04
Contribution to hazardous waste disposed	kg	1.98E+00	1.52E+00	0*	0*	4.59E-01	1.54E-03	-1.03E+00
Contribution to non hazardous waste disposed	kg	2.83E+00	6.12E-02	0*	4.73E-04	2.75E+00	1.43E-02	-4.04E-02
Contribution to radioactive waste disposed	kg	1.40E-04	2.79E-05	0*	2.17E-08	1.11E-04	6.78E-07	-2.10E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.42E-02	3.21E-03	0*	0*	0*	1.10E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	2.70E-04	1.61E-04	0*	0*	0*	1.09E-04	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 2.13E-04

* 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%)

Extrapolated Data

Product information	Easy UPS 3S Pro	Referent product				
		E3SP40KHB	E3SP30KHB	E3SP20KHB	E3SP15KHB	E3SP10KHB
Compulsory environmental indicators (UPS in double conversion mode)	Weight with Packaging (kg)	176.5	165.5	153	123	118
	Contribution to climate change (kg CO ₂ eq)	9.08E+04	7.03E+04	4.76E+04	3.68E+04	2.43E+04
	Contribution to Ozone depletion (kg CFC11 eq)	7.80E-04	6.45E-04	4.96E-04	3.90E-04	3.11E-04
	Contribution to Acidification (mol H ⁺ eq)	6.84E+02	5.29E+02	3.58E+02	2.77E+02	1.82E+02
	Contribution to eutrophication, freshwater (kg PO ₄ ³⁻ eq)	2.96E-02	2.40E-02	1.77E-02	1.39E-02	1.05E-02
	Contribution to eutrophication marine (kg N eq)	7.42E+01	5.76E+01	3.92E+01	3.03E+01	2.02E+01
	Contribution to eutrophication, terrestrial (mol N eq)	8.50E+02	6.59E+02	4.48E+02	3.47E+02	2.31E+02
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	2.47E+02	1.92E+02	1.30E+02	1.01E+02	6.72E+01
	Contribution to resource use, minerals and metals (kg Sbeq)	5.80E-01	5.42E-01	5.00E-01	4.01E-01	3.84E-01
	Total use of primary energy (MJ)	1.65E+06	1.28E+06	8.65E+05	6.69E+05	4.42E+05
	Contribution to water use (m ³ eq)	5.81E+03	4.59E+03	3.23E+03	2.51E+03	1.77E+03

*The extrapolated data is calculated based on the environmental impact data of the declared unit.

Life cycle assessment performed with EIME version v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 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.

Registration number :	ENVPEP2509037_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	10-2025	Supplemented by Information and reference	PSR-0010-ed2-EN-2023 12 08 www.pep-ecopassport.org
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	Validity period 5 years
<p>The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)</p> <p>PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022</p> <p>The components of the present PEP may not be compared with components from any other program.</p> <p>Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"</p>			

Schneider Electric Industries SAS

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