Product Environmental Profile

APC Back-UPS ES 8 Outlet 550VA 120V

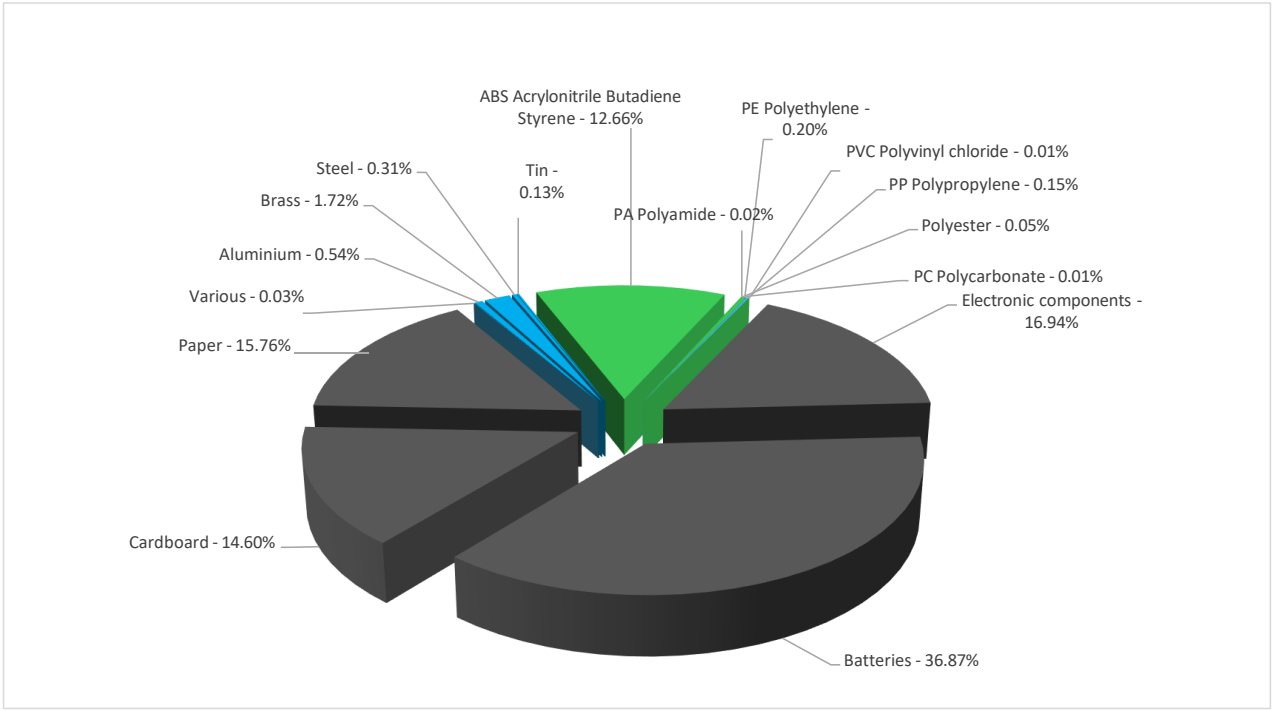


General information

Reference product	APC Back-UPS ES 8 Outlet 550VA 120V - BE550G
Description of the product	BE550G (APC Back-UPS ES) is a standby Uninterruptible Power Supply (UPS) by APC / Schneider Electric. It provides battery backup and surge protection for home and small-office electronics like computers, routers, and modems. During power cuts or voltage fluctuations, it automatically supplies short-term battery power and protects equipment from surges and spikes.
Description of the range	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.The wide product range enables right-sizing of power protection across different load levels, reliability needs, and global markets, allowing a common core UPS design to be adapted for capacity, functionality, and regional compliance, while minimizing over-design, material use, and environmental impact. The products of the range are: BE550MC, BE550G-UKQ, BE700G-SPQ, BR1000G, BR1000GQ, BR1200G-FR, BR1200G-FRQ, BR1200G-GR, BR1200G-GRQ, BR1200GI, BR1200GIQ, BR1300G, BR1300GQ, BR1500G, BR1500G-CN, BR1500G-FR, BR1500G-FRQ, BR1500G-GR, BR1500G-GRQ, BR1500GI, BR1500GIQ, BR1500GQ, BR550G-AR, BR550G-CN, BR550GI, BR550GIQ, BR700G-TWQ, BR700GQ, BR900G-AR, BR900G-FR, BR900G-FRQ, BR900G-GR, BR900G-GRQ, BR900GI, BR900GIQ, BN1080G, BN1350G, BX1000G, BX1000G-CA, BX1000GQ, BX1300G, BX1300G-CA, BX1300GQ, BX1500G, BX1500G-CA, BX1500GQ, BE550G, BE550G-AZ, BE550G-CP, BE550G-CPQ, BE550G-FR, BE550G-FRQ, BE550G-GR, BE550G-GRQ, BE550G-IT, BE550G-ITQ, BE550G-RS, BE550G-SP, BE550G-SPQ, BE550G-UK, BE700G-CP, BE700G-CPQ, BE700G-FR, BE700G-FRQ, BE700G-GR, BE700G-GRQ, BE700G-IT, BE700G-ITQ, BE700G-RS, BE700G-SP, BE700G-UK, BE700G-UKQ, BN600MC, BN700MC Above may not list all applicable products
Functional unit	To protect the load of 100 watts against input power failure during 1 years and provide a backup time of 5 minutes in case of a power outage
Declared unit	To ensure the supply of power without interruption to equipment with load of 330 watts for a RSL of 5 years, including a backup time capacity of 2.5 minutes during power shortages
	The conversion factor for USE phase:(330*5)/(100*1)=16.5
	The conversion factor for other phases: (330*5*2.5)/(100*1*5)=8.25
Specifications are:	Rated capacity: 550 VA / 330 W Input voltage: 120 V AC, Output voltage: 120 V AC Typical battery life: 3–5 years

Constituent materials

Reference product mass	6.2 kg	including the product, its packaging



Others	84.2%
Plastics	13.1%
Metals	2.7%

Substance assessment

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:	**52%**	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).

Environmental impacts

Reference service life time	5 years
Product category	Uninterruptible Power Supply (UPS) - with energy storage system incorporated - P ≤ 1500 W
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	No special installation components need during installation phase, but transport of packaging to disposal and disposal of packaging accounted for during installation.
Use scenario	Power consumption conforms to the requirements in PSR-0010-ed2-EN-2023 12 08 **Load rate** / 25% / 50% / 75% / 100% **Proportion of time at specificed load** / 0 / 0.3 / 0.4 / 0.3 The product is in double conversion mode for 100% of the time with a weighted average efficiency of 98.9% and a power usage of 131 kWh for 5 years lifetime

Commercial Reference	Description	Average energy efficiency	Electricity consumption (kWh over 5 years)
BE550G	APC Back-UPS ES 8 Outlet 550VA 120V	98.9%	131

Time representativeness	The collected data are representative of the year 2026			
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**
	Philippines	United States		United States
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity mix; Production mix; low voltage; 2022; Vietnam, VN	No energy used	Electricity mix; Production mix; low voltage; 2022; United States, US	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

Declared Unit

Mandatory Indicators		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G						
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	5.07E+00	1.33E-01	5.35E-02	4.22E-01	3.83E+00	6.31E-01	-1.45E-01
Contribution to climate change-fossil	kg CO2 eq	4.75E+00	1.79E-01	5.35E-02	7.77E-02	3.81E+00	6.31E-01	-1.43E-01
Contribution to climate change-biogenic	kg CO2 eq	3.19E-01	-4.57E-02	0*	3.44E-01	1.98E-02	5.58E-04	-2.65E-03
Contribution to climate change-land use and land use change	kg CO2 eq	5.85E-07	3.27E-09	8.09E-08	1.47E-08	0.00E+00	4.86E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.14E-08	5.50E-09	6.49E-10	2.85E-09	1.48E-08	7.55E-09	-1.29E-08
Contribution to acidification	mol H+ eq	2.40E-02	4.90E-03	8.54E-05	4.52E-04	1.75E-02	1.06E-03	-2.10E-03
Contribution to eutrophication, freshwater	kg P eq	1.11E-05	3.08E-07	2.01E-07	1.23E-07	6.35E-06	4.15E-06	-3.43E-07
Contribution to eutrophication, marine	kg N eq	3.55E-03	1.00E-03	1.57E-05	1.08E-04	2.20E-03	2.30E-04	-1.17E-04
Contribution to eutrophication, terrestrial	mol N eq	4.13E-02	1.11E-02	1.72E-04	1.44E-03	2.60E-02	2.59E-03	-1.27E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.11E-02	2.77E-03	5.54E-05	3.04E-04	7.26E-03	6.54E-04	-4.57E-04
Contribution to resource use, minerals and metals	kg Sb eq	7.65E-07	1.35E-08	1.91E-08	1.44E-08	5.81E-07	1.37E-07	-5.61E-05
Contribution to resource use, fossils	MJ	9.34E+01	8.64E-01	9.53E-01	1.52E+00	8.31E+01	6.97E+00	-2.51E+00
Contribution to water use	m3 eq	2.34E-01	8.29E-03	1.93E-03	4.70E-03	1.93E-01	2.67E-02	-1.06E-01

Inventory flows Indicators		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G						
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	1.02E+01	-5.80E-02	2.99E-03	1.21E-01	1.01E+01	1.44E-01	-1.57E-01
Contribution to renewable primary energy used as raw material	MJ	5.86E-01	6.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.80E-02
Contribution to total renewable primary energy	MJ	1.08E+01	5.46E-01	2.99E-03	1.21E-01	1.01E+01	1.44E-01	-1.75E-01
Contribution to non renewable primary energy used as energy	MJ	9.11E+01	6.87E-01	9.53E-01	1.52E+00	8.31E+01	6.97E+00	-2.13E+00
Contribution to non renewable primary energy used as raw material	MJ	-2.00E-01	1.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.77E-01
Contribution to total non renewable primary energy	MJ	9.09E+01	8.64E-01	9.53E-01	1.52E+00	8.31E+01	6.97E+00	-2.51E+00
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to net use of fresh water	m³	3.03E-03	1.93E-04	4.49E-05	1.08E-04	4.49E-03	6.68E-04	-2.47E-03
Contribution to hazardous waste disposed	kg	-7.68E-01	8.73E-04	2.24E-04	8.25E-02	7.17E-02	1.73E-01	-1.10E+00
Contribution to non hazardous waste disposed	kg	5.24E-01	1.19E-02	4.96E-03	1.08E-02	5.66E-01	6.48E-02	-1.35E-01
Contribution to radioactive waste disposed	kg	9.35E-05	6.36E-06	3.93E-06	4.77E-06	1.34E-04	2.70E-05	-8.26E-05
Contribution to components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to materials for recycling	kg	2.91E-02	3.44E-06	0.00E+00	0.00E+00	0.00E+00	2.91E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to exported energy	MJ	1.28E-05	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+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	7.26E-02

** 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

Mandatory Indicators		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G						
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	7.34E+01	1.10E+00	4.42E-01	3.48E+00	6.32E+01	5.21E+00	-1.20E+00
Contribution to climate change-fossil	kg CO2 eq	7.06E+01	1.47E+00	4.42E-01	6.41E-01	6.29E+01	5.20E+00	-1.18E+00
Contribution to climate change-biogenic	kg CO2 eq	2.79E+00	-3.77E-01	0*	2.84E+00	3.26E-01	4.60E-03	-2.19E-02
Contribution to climate change-land use and land use change	kg CO2 eq	4.82E-06	2.69E-08	6.67E-07	1.21E-07	0.00E+00	4.01E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.81E-07	4.54E-08	5.36E-09	2.35E-08	2.45E-07	6.23E-08	-1.07E-07
Contribution to acidification	mol H+ eq	3.42E-01	4.04E-02	7.04E-04	3.73E-03	2.88E-01	8.75E-03	-1.73E-02
Contribution to eutrophication, freshwater	kg P eq	1.44E-04	2.54E-06	1.66E-06	1.01E-06	1.05E-04	3.42E-05	-2.83E-06
Contribution to eutrophication, marine	kg N eq	4.74E-02	8.26E-03	1.30E-04	8.90E-04	3.63E-02	1.89E-03	-9.62E-04
Contribution to eutrophication, terrestrial	mol N eq	5.55E-01	9.15E-02	1.42E-03	1.19E-02	4.28E-01	2.14E-02	-1.05E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.51E-01	2.29E-02	4.57E-04	2.51E-03	1.20E-01	5.39E-03	-3.77E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.11E-05	1.12E-07	1.57E-07	1.19E-07	9.59E-06	1.13E-06	-4.63E-04
Contribution to resource use, fossils	MJ	1.46E+03	7.13E+00	7.86E+00	1.26E+01	1.37E+03	5.75E+01	-2.07E+01
Contribution to water use	m3 eq	3.52E+00	6.84E-02	1.59E-02	3.88E-02	3.18E+00	2.20E-01	-8.77E-01

Inventory flows Indicators		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G						
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	1.69E+02	-4.79E-01	2.47E-02	1.00E+00	1.67E+02	1.19E+00	-1.30E+00
Contribution to renewable primary energy used as raw material	MJ	4.98E+00	4.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.48E-01
Contribution to total renewable primary energy	MJ	1.74E+02	4.50E+00	2.47E-02	1.00E+00	1.67E+02	1.19E+00	-1.44E+00
Contribution to non renewable primary energy used as energy	MJ	1.45E+03	5.67E+00	7.86E+00	1.26E+01	1.37E+03	5.75E+01	-1.76E+01
Contribution to non renewable primary energy used as raw material	MJ	1.46E+00	1.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.11E+00
Contribution to total non renewable primary energy	MJ	1.46E+03	7.13E+00	7.86E+00	1.26E+01	1.37E+03	5.75E+01	-2.07E+01
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to net use of fresh water	m³	8.24E-02	1.59E-03	3.70E-04	8.89E-04	7.40E-02	5.51E-03	-2.04E-02
Contribution to hazardous waste disposed	kg	3.30E+00	7.20E-03	1.85E-03	6.81E-01	1.18E+00	1.42E+00	-9.04E+00
Contribution to non hazardous waste disposed	kg	1.01E+01	9.85E-02	4.10E-02	8.88E-02	9.35E+00	5.35E-01	-1.12E+00
Contribution to radioactive waste disposed	kg	2.56E-03	5.25E-05	3.24E-05	3.94E-05	2.21E-03	2.23E-04	-6.82E-04
Contribution to components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to materials for recycling	kg	2.40E-01	2.83E-05	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to exported energy	MJ	1.05E-04	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+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	5.99E-01

** 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		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	6.32E+01	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to climate change-fossil	kg CO2 eq	6.29E+01	0	0.00E+00	0	0	0	8.61E-01	0
Contribution to climate change-biogenic	kg CO2 eq	3.26E-01	0	0.00E+00	0	0	0	8.90E-01	0
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0	0.00E+00	0	0	0	1.17E-01	0
Contribution to ozone depletion	kg CFC-11 eq	2.45E-07	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to acidification	mol H+ eq	2.88E-01	0	0.00E+00	0	0	0	6.42E-01	0
Contribution to eutrophication, freshwater	kg P eq	1.05E-04	0	0.00E+00	0	0	0	8.43E-01	0
Contribution to eutrophication marine	kg N eq	3.63E-02	0	0.00E+00	0	0	0	7.27E-01	0
Contribution to eutrophication, terrestrial	mol N eq	4.28E-01	0	0.00E+00	0	0	0	7.65E-01	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.20E-01	0	0.00E+00	0	0	0	7.72E-01	0
Contribution to resource use, minerals and metals	kg Sb eq	9.59E-06	0	0.00E+00	0	0	0	7.93E-01	0
Contribution to resource use, fossils	MJ	1.37E+03	0	0.00E+00	0	0	0	8.63E-01	0
Contribution to water use	m3 eq	3.18E+00	0	0.00E+00	0	0	0	9.42E-01	0

Inventory flows Indicators		APC Back-UPS ES 8 Outlet 550VA 120V - BE550G							
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	1.67E+02	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	9.90E-01	0
Contribution to total use of renewable primary energy resources	MJ	1.67E+02	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.37E+03	0	0.00E+00	0	0	0	9.61E-01	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	9.43E-01	0
Contribution to total use of non-renewable primary energy resources	MJ	1.37E+03	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of secondary material	kg	0.00E+00	0	0.00E+00	0	0	0	9.42E-01	0
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to net use of freshwater	m³	7.40E-02	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to hazardous waste disposed	kg	1.18E+00	0	0.00E+00	0	0	0	8.98E-01	0
Contribution to non hazardous waste disposed	kg	9.35E+00	0	0.00E+00	0	0	0	3.59E-01	0
Contribution to radioactive waste disposed	kg	2.21E-03	0	0.00E+00	0	0	0	9.25E-01	0
Contribution to components for reuse	kg	0.00E+00	0	0.00E+00	0	0	0	8.64E-01	0
Contribution to materials for recycling	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to materials for energy recovery	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to exported energy	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.2.5-6, 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 :	ENVPEP1712010EN_V2	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0010-ed2-EN-2023 12 08
Date of issue	11-2026	*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"

Schneider Electric Industries SAS

Country Customer Care Center
http://www.se.com/contact

Head Office

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

Published by Schneider Electric

©2026 - Schneider Electric – All rights reserved

ENVPEP1712010EN 11-2026