

# Product Environmental Profile

## APC Easy UPS





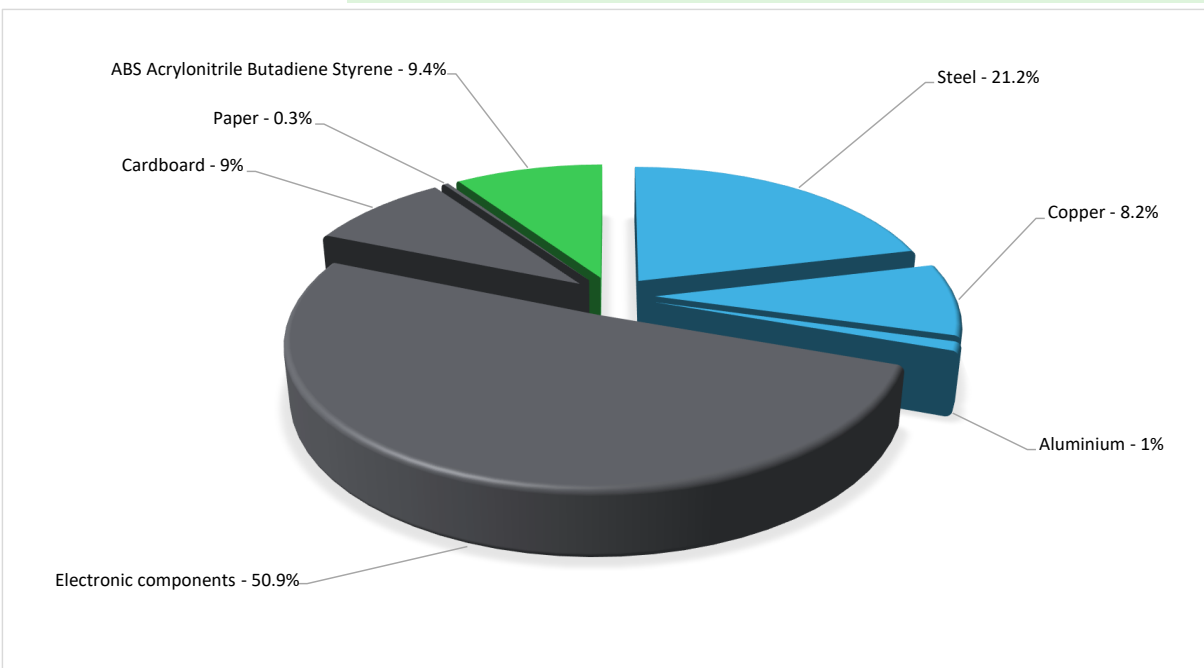
## General information

Reference product	APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR
Description of the product	The main purpose of the back up UPS is to provide simple and scalable, encompassing an application for Home and Small Office.
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 products of the range are: APC Easy UPS
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.
Declared unit	To protect the load of 480 Watts against input power failure during 5 years and provide a backup time of 2.5 minutes in case of a power outage



## Constituent materials

Reference product mass	5400 g including the product, its packaging, additional elements and accessories
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Plastics	9.4%
Metals	30.4%
Others	60.2%



## 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 Directive compliance	The battery within this product range are designed in conformity with the requirements of the Battery REGULATION (EU) 2023/1542.

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:	<b>34%</b>	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	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	The product does not require any installation operations.			
Use scenario	Power consumption conforms to the requirements in PSR0010 where it is modeled to operate at 50% load for 30% of the time, 75% load for 40% of the time and 100% load for 30% of the time. The UPS is modeled to operate in normal mode (average efficiency of 97.3%, and annual use of 79.47kWh) in all the time.			
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 representative of the actual type of technologies used to make the product.			
Geographical representativeness	Final assembly site	Use phase		End-of-life
	China	Indonesia		Indonesia
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; Indonesia, ID	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>

**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		APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR						
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	4.93E+02	7.80E+01	3.59E+00	9.73E-01	3.98E+02	1.22E+01	-6.17E+00
Contribution to climate change-fossil	kg CO2 eq	4.93E+02	7.88E+01	3.59E+00	1.74E-01	3.98E+02	1.21E+01	-6.05E+00
Contribution to climate change-biogenic	kg CO2 eq	1.32E-01	0*	0*	8.00E-01	1.67E-01	9.65E-03	-1.29E-01
Contribution to climate change-land use and land use change	kg CO2 eq	5.59E-06	4.74E-06	0*	1.73E-09	0*	8.48E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.89E-05	4.36E-05	3.17E-06	6.24E-09	2.03E-06	9.48E-08	-1.06E-06
Contribution to acidification	mol H+ eq	3.39E+00	5.02E-01	1.58E-02	1.05E-03	2.85E+00	2.00E-02	-1.11E-01
Contribution to eutrophication, freshwater	kg P eq	2.33E-04	1.63E-04	4.21E-07	2.05E-07	3.38E-06	6.56E-05	-1.08E-05
Contribution to eutrophication, marine	kg N eq	4.21E-01	1.01E-01	7.26E-03	2.64E-04	3.06E-01	5.79E-03	-4.10E-03
Contribution to eutrophication, terrestrial	mol N eq	5.03E+00	1.10E+00	7.87E-02	3.48E-03	3.79E+00	6.16E-02	-4.76E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.43E+00	3.80E-01	2.57E-02	7.41E-04	1.01E+00	1.59E-02	-2.07E-02
Contribution to resource use, minerals and metals	kg Sb eq	1.72E-02	1.72E-02	0*	0*	1.17E-05	0*	-2.18E-03
Contribution to resource use, fossils	MJ	7.39E+03	1.14E+03	4.47E+01	3.22E+00	6.15E+03	4.90E+01	-1.30E+02
Contribution to water use	m3 eq	4.25E+01	2.42E+01	1.82E-01	1.00E-02	1.75E+01	6.31E-01	-5.95E+00

Inventory flows Indicators		APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR						
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	2.81E+02	2.28E+01	0*	2.77E-01	2.56E+02	2.31E+00	-3.36E+00
Contribution to renewable primary energy used as raw material	MJ	1.23E+01	1.23E+01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	2.94E+02	3.51E+01	0*	2.77E-01	2.56E+02	2.31E+00	-3.36E+00
Contribution to non renewable primary energy used as energy	MJ	7.35E+03	1.10E+03	4.47E+01	3.22E+00	6.15E+03	4.90E+01	-1.30E+02
Contribution to non renewable primary energy used as raw material	MJ	3.62E+01	3.62E+01	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	7.39E+03	1.14E+03	4.47E+01	3.22E+00	6.15E+03	4.90E+01	-1.30E+02
Contribution to use of secondary material	kg	0.00E+00	0*	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	9.92E-01	5.63E-01	4.25E-03	2.29E-04	4.07E-01	1.74E-02	-1.39E-01
Contribution to hazardous waste disposed	kg	2.20E+02	2.07E+02	0*	1.89E-01	1.07E+01	2.75E+00	-1.71E+02
Contribution to non hazardous waste disposed	kg	8.52E+01	1.58E+01	0*	2.29E-02	6.69E+01	2.42E+00	-4.93E+00
Contribution to radioactive waste disposed	kg	2.35E-02	1.77E-02	7.15E-04	9.56E-06	4.95E-03	1.34E-04	-2.71E-03
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.93E+00	2.47E-01	0*	0*	0*	1.68E+00	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	1.86E-02	2.51E-03	0*	0*	0*	1.61E-02	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	1.44E-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 Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	3.98E+02	0*	0*	0*	0*	0*	3.98E+02	0*
Contribution to climate change-fossil	kg CO2 eq	3.98E+02	0*	0*	0*	0*	0*	3.98E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	1.67E-01	0*	0*	0*	0*	0*	1.67E-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	2.03E-06	0*	0*	0*	0*	0*	2.03E-06	0*
Contribution to acidification	mol H+ eq	2.85E+00	0*	0*	0*	0*	0*	2.85E+00	0*
Contribution to eutrophication, freshwater	kg P eq	3.38E-06	0*	0*	0*	0*	0*	3.38E-06	0*
Contribution to eutrophication marine	kg N eq	3.06E-01	0*	0*	0*	0*	0*	3.06E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	3.79E+00	0*	0*	0*	0*	0*	3.79E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.01E+00	0*	0*	0*	0*	0*	1.01E+00	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.17E-05	0*	0*	0*	0*	0*	1.17E-05	0*
Contribution to resource use, fossils	MJ	6.15E+03	0*	0*	0*	0*	0*	6.15E+03	0*
Contribution to water use	m3 eq	1.75E+01	0*	0*	0*	0*	0*	1.75E+01	0*

Inventory flows Indicators		APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR							
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	2.56E+02	0*	0*	0*	0*	0*	2.56E+02	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	2.56E+02	0*	0*	0*	0*	0*	2.56E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.15E+03	0*	0*	0*	0*	0*	6.15E+03	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	6.15E+03	0*	0*	0*	0*	0*	6.15E+03	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	4.07E-01	0*	0*	0*	0*	0*	4.07E-01	0*
Contribution to hazardous waste disposed	kg	1.07E+01	0*	0*	0*	0*	0*	1.07E+01	0*
Contribution to non hazardous waste disposed	kg	6.69E+01	0*	0*	0*	0*	0*	6.69E+01	0*
Contribution to radioactive waste disposed	kg	4.95E-03	0*	0*	0*	0*	0*	4.95E-03	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

## Functional Unit Result

Mandatory Indicators		APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG900I-GR						
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	2.45E+01	6.50E+00	2.99E-01	8.11E-02	1.66E+01	1.01E+00	-5.15E-01
Contribution to climate change-fossil	kg CO2 eq	2.45E+01	6.57E+00	2.99E-01	1.45E-02	1.66E+01	1.01E+00	-5.04E-01
Contribution to climate change-biogenic	kg CO2 eq	7.44E-02	0*	0*	6.66E-02	6.96E-03	8.04E-04	-1.08E-02
Contribution to climate change-land use and land use change	kg CO2 eq	4.66E-07	3.95E-07	0*	1.44E-10	0*	7.07E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.99E-06	3.63E-06	2.64E-07	5.20E-10	8.46E-08	7.90E-09	-8.83E-08
Contribution to acidification	mol H+ eq	1.64E-01	4.18E-02	1.31E-03	8.73E-05	1.19E-01	1.67E-03	-9.26E-03
Contribution to eutrophication, freshwater	kg P eq	1.93E-05	1.36E-05	3.51E-08	1.71E-08	1.41E-07	5.46E-06	-9.02E-07
Contribution to eutrophication, marine	kg N eq	2.23E-02	8.45E-03	6.05E-04	2.20E-05	1.27E-02	4.83E-04	-3.41E-04
Contribution to eutrophication, terrestrial	mol N eq	2.61E-01	9.14E-02	6.56E-03	2.90E-04	1.58E-01	5.13E-03	-3.97E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.74E-02	3.16E-02	2.14E-03	6.17E-05	4.22E-02	1.32E-03	-1.72E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.44E-03	1.43E-03	0*	0*	4.89E-07	0*	-1.81E-04
Contribution to resource use, fossils	MJ	3.59E+02	9.46E+01	3.73E+00	2.68E-01	2.56E+02	4.08E+00	-1.08E+01
Contribution to water use	m3 eq	2.82E+00	2.02E+00	1.52E-02	8.33E-04	7.29E-01	5.26E-02	-4.96E-01

Inventory flows Indicators		APC Easy UPS 900VA, 230V, AVR, SCHUKO Sockets - BVG9001-GR						
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	1.28E+01	1.90E+00	0*	2.31E-02	1.07E+01	1.92E-01	-2.80E-01
Contribution to renewable primary energy used as raw material	MJ	1.03E+00	1.03E+00	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	1.38E+01	2.93E+00	0*	2.31E-02	1.07E+01	1.92E-01	-2.80E-01
Contribution to non renewable primary energy used as energy	MJ	3.56E+02	9.16E+01	3.73E+00	2.68E-01	2.56E+02	4.08E+00	-1.08E+01
Contribution to non renewable primary energy used as raw material	MJ	3.02E+00	3.02E+00	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	3.59E+02	9.46E+01	3.73E+00	2.68E-01	2.56E+02	4.08E+00	-1.08E+01
Contribution to use of secondary material	kg	0.00E+00	0*	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	6.57E-02	4.69E-02	3.54E-04	1.91E-05	1.70E-02	1.45E-03	-1.15E-02
Contribution to hazardous waste disposed	kg	1.79E+01	1.72E+01	0*	1.57E-02	4.46E-01	2.29E-01	-1.42E+01
Contribution to non hazardous waste disposed	kg	4.31E+00	1.32E+00	0*	1.91E-03	2.79E+00	2.01E-01	-4.11E-01
Contribution to radioactive waste disposed	kg	1.75E-03	1.48E-03	5.95E-05	7.97E-07	2.06E-04	1.12E-05	-2.26E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.61E-01	2.05E-02	0*	0*	0*	1.40E-01	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	1.55E-03	2.09E-04	0*	0*	0*	1.34E-03	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 1.20E-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%)

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 :	ENVPEP2505011_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	06-2025	Supplemented by Information and Validity period	PSR-0010-ed2.0-EN 2023 12 08 <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> 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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