Product Environmental Profile

Smart-UPS Battery Systems

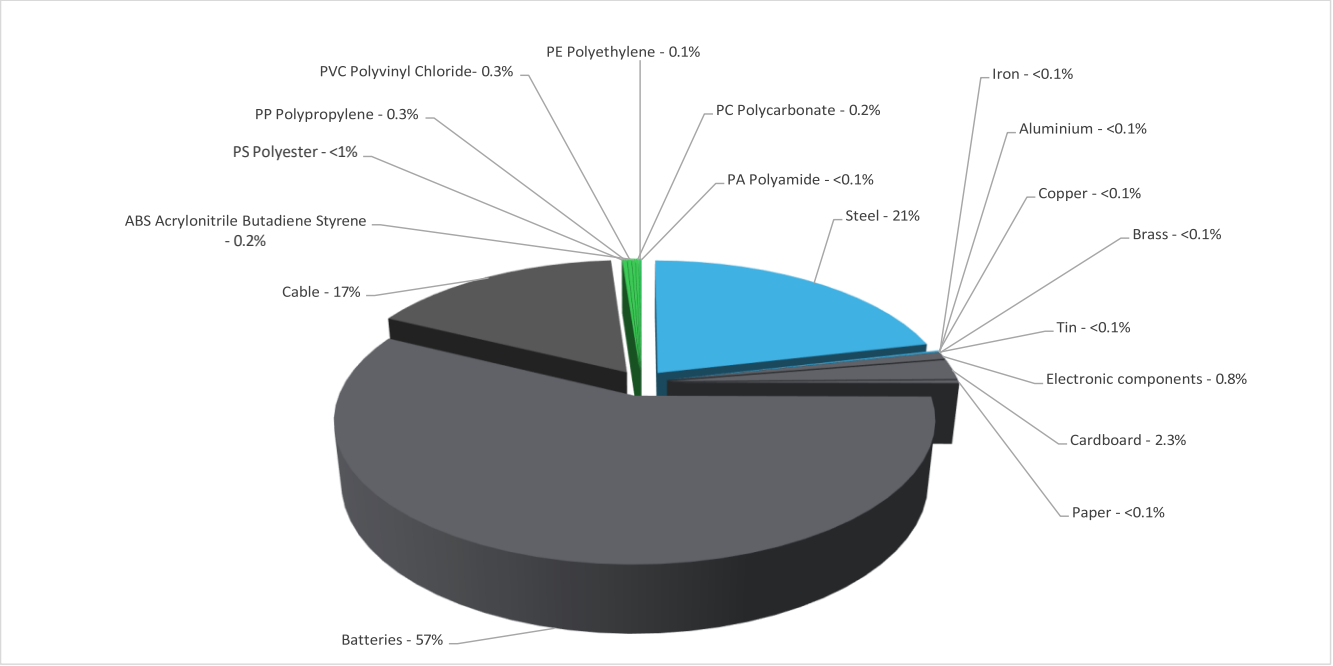


General information

Reference product	APC Smart-UPS On-Line SRT Battery Pack for 5/6kVA Extended runtime model 192V - SRT192BP
Description of the product	The Smart-UPS Battery Systems provides, additional back up power (time) to Smart-UPS for servers, voice / data networks, medical labs, and light industrial applications.
Description of the range	Single product
Functional unit	This energy storage system helps protect the load connected to the UPS against the input power failure.
Specifications are:	Nominal Battery Voltage: 192 VDC Battery Configuration: 16 × 12 V batteries connected in series Battery Replacement: User-replaceable, hot-swappable battery modules Battery Recharge: Managed automatically through the connected UPS system

Constituent materials

Reference product mass	101.5 kg	including the product, its packaging



Others	77%
Metals	21%
Plastics	2%

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:	**78%**	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	10 years			
Product category	External Lead-acid battery pack			
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	SRT192BP Extended Run Battery Pack does not require any special installation materials or operations.			
Use scenario	The lead-acid battery module consumes electricity to offset self-discharge losses and support monitoring functions, resulting in a total energy consumption of 84.09 kWh over 10 years.			
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	Global		Global
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity mix; Production mix; low voltage; 2022; Asia Pacific, APAC	No energy used	Electricity mix; Production mix; low voltage; 2022; Europe, EU-27 Electricity mix; Consumption mix; Low voltage; 2022; Global, GLO Electricity mix; Production mix; low voltage; 2022; 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		APC Smart-UPS On-Line SRT Battery Pack for 5/6kVA Extended runtime model 192V - SRT192BP						
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	6.57E+02	4.98E+02	4.75E+00	5.72E+00	4.67E+01	1.02E+02	-9.80E+01
Contribution to climate change-fossil	kg CO2 eq	6.63E+02	5.09E+02	4.75E+00	1.26E+00	4.62E+01	1.02E+02	-9.67E+01
Contribution to climate change-biogenic	kg CO2 eq	-5.67E+00	-1.09E+01	1.91E-05	4.46E+00	4.62E-01	2.56E-01	-1.33E+00
Contribution to climate change-land use and land use change	kg CO2 eq	6.17E-04	4.99E-04	7.04E-06	2.32E-07	0.00E+00	1.11E-04	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.24E-05	8.96E-05	5.75E-08	5.29E-08	2.33E-07	2.47E-06	-1.64E-05
Contribution to acidification	mol H+ eq	5.86E+00	5.23E+00	9.03E-03	7.66E-03	2.95E-01	3.17E-01	-1.48E+00
Contribution to eutrophication, freshwater	kg P eq	2.42E-03	1.79E-03	1.89E-05	1.98E-06	5.71E-05	5.53E-04	-1.46E-04
Contribution to eutrophication, marine	kg N eq	7.26E-01	6.42E-01	2.05E-03	1.85E-03	3.29E-02	4.72E-02	-6.34E-02
Contribution to eutrophication, terrestrial	mol N eq	8.04E+00	7.02E+00	2.25E-02	2.46E-02	4.30E-01	5.47E-01	-7.42E-01
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.58E+00	2.30E+00	6.64E-03	5.21E-03	1.08E-01	1.54E-01	-3.09E-01
Contribution to resource use, minerals and metals	kg Sb eq	3.28E-01	3.28E-01	0*	0*	0*	0*	-3.67E-02
Contribution to resource use, fossils	MJ	1.87E+04	1.60E+04	8.93E+01	2.45E+01	9.27E+02	1.75E+03	-2.21E+03
Contribution to water use	m3 eq	2.18E+02	2.05E+02	1.73E-01	8.12E-02	3.02E+00	9.30E+00	-8.45E+01

Inventory flows Indicators		APC Smart-UPS On-Line SRT Battery Pack for 5/6kVA Extended runtime model 192V - SRT192BP						
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	3.07E+02	9.94E+01	2.61E-01	1.93E+00	1.58E+02	4.74E+01	-4.11E+01
Contribution to renewable primary energy used as raw material	MJ	1.51E+02	1.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.40E-01
Contribution to total renewable primary energy	MJ	4.58E+02	2.51E+02	2.61E-01	1.93E+00	1.58E+02	4.74E+01	-4.15E+01
Contribution to non renewable primary energy used as energy	MJ	1.81E+04	1.53E+04	8.93E+01	2.45E+01	9.27E+02	1.75E+03	-2.21E+03
Contribution to non renewable primary energy used as raw material	MJ	6.96E+02	6.96E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Contribution to total non renewable primary energy	MJ	1.87E+04	1.60E+04	8.93E+01	2.45E+01	9.27E+02	1.75E+03	-2.21E+03
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	5.42E+00	5.08E+00	4.04E-03	1.86E-03	7.05E-02	2.62E-01	-1.97E+00
Contribution to hazardous waste disposed	kg	1.35E+02	1.18E+02	1.95E-02	1.36E+00	1.33E+00	1.49E+01	-2.89E+03
Contribution to non hazardous waste disposed	kg	1.04E+02	5.76E+01	4.32E-01	1.76E-01	7.90E+00	3.84E+01	-7.10E+01
Contribution to radioactive waste disposed	kg	3.84E-02	3.06E-02	3.43E-04	7.73E-05	9.99E-04	6.44E-03	-3.26E-02
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	2.98E+01	2.21E+00	0.00E+00	0.00E+00	0.00E+00	2.76E+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	2.45E-01	2.37E-02	0.00E+00	0.00E+00	0.00E+00	2.21E-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	8.31E-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 Smart-UPS On-Line SRT Battery Pack for 5/6kVA Extended runtime model 192V - SRT192BP							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4.67E+01	0	0.00E+00	0	0	0	4.67E+01	0
Contribution to climate change-fossil	kg CO2 eq	4.62E+01	0	0.00E+00	0	0	0	4.62E+01	0
Contribution to climate change-biogenic	kg CO2 eq	4.62E-01	0	0.00E+00	0	0	0	4.62E-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	0.00E+00	0
Contribution to ozone depletion	kg CFC-11 eq	2.33E-07	0	0.00E+00	0	0	0	2.33E-07	0
Contribution to acidification	mol H+ eq	2.95E-01	0	0.00E+00	0	0	0	2.95E-01	0
Contribution to eutrophication, freshwater	kg P eq	5.71E-05	0	0.00E+00	0	0	0	5.71E-05	0
Contribution to eutrophication marine	kg N eq	3.29E-02	0	0.00E+00	0	0	0	3.29E-02	0
Contribution to eutrophication, terrestrial	mol N eq	4.30E-01	0	0.00E+00	0	0	0	4.30E-01	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.08E-01	0	0.00E+00	0	0	0	1.08E-01	0
Contribution to resource use, minerals and metals	kg Sb eq	0*	0	0.00E+00	0	0	0	0*	0
Contribution to resource use, fossils	MJ	9.27E+02	0	0.00E+00	0	0	0	9.27E+02	0
Contribution to water use	m3 eq	3.02E+00	0	0.00E+00	0	0	0	3.02E+00	0

Inventory flows Indicators		APC Smart-UPS On-Line SRT Battery Pack for 5/6kVA Extended runtime model 192V - SRT192BP							
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	1.58E+02	0	0.00E+00	0	0	0	1.58E+02	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	0
Contribution to total use of renewable primary energy resources	MJ	1.58E+02	0	0.00E+00	0	0	0	1.58E+02	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.27E+02	0	0.00E+00	0	0	0	9.27E+02	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	0.00E+00	0
Contribution to total use of non-renewable primary energy resources	MJ	9.27E+02	0	0.00E+00	0	0	0	9.27E+02	0
Contribution to use of secondary material	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	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	7.05E-02	0	0.00E+00	0	0	0	7.05E-02	0
Contribution to hazardous waste disposed	kg	1.33E+00	0	0.00E+00	0	0	0	1.33E+00	0
Contribution to non hazardous waste disposed	kg	7.90E+00	0	0.00E+00	0	0	0	7.90E+00	0
Contribution to radioactive waste disposed	kg	9.99E-04	0	0.00E+00	0	0	0	9.99E-04	0
Contribution to components for reuse	kg	0.00E+00	0	0.00E+00	0	0	0	0.00E+00	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

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 :	ENVPEP1612036EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	No PSR
Date of issue	2026-10	*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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