

Product Environmental Profile

APC NetShelter SX, Gen 2

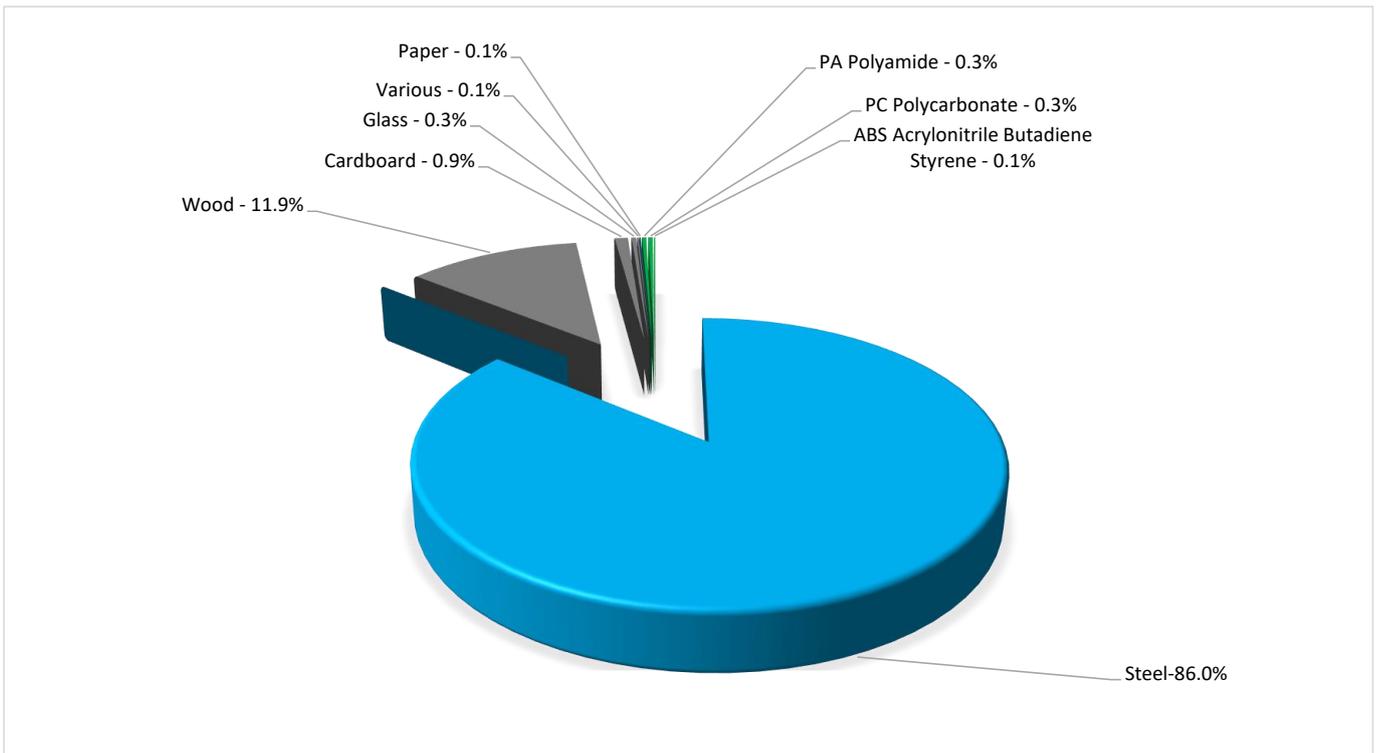


General information

Reference product	APC NetShelter SX Gen 2, 42U Server Rack Enclosure 600mm x 1070mm w/ sides Black - AR3100B2
Description of the product	Rack Enclosures and Accessories products provide the support structure that house servers, voice, data, networking, security, audio-visual, and power protection equipment in data center applications, according to the specifications of the IEC 60297: "Mechanical structures for electronic equipment". These structures vary in configuration, size and special features to allow the easy mounting of equipment.
Functional unit	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 1991mm x 600mm x 1070mm while protecting against the penetration of solid objects and liquids (IP20).

Constituent materials

Reference product mass	147841.71 g including the product, its packaging and additional elements and accessories
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Plastics	0.70%
Metals	86.00%
Others	13.30%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <https://www.se.com/ww/en/work/support/green-premium/>

Additional environmental information

End Of Life	Recyclability potential:	97%	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	20 years		
Product category	Unequipped enclosures and cabinets		
Installation elements	No special components needed		
Use scenario	Non applicable for unequipped enclosures and cabinets		
Technological representativeness	Rack Enclosures and Accessories products provide the support structure that house servers, voice, data, networking, security, audio-visual, and power protection equipment in data center applications, according to the specifications of the IEC 60297: "Mechanical structures for electronic equipment". These structures vary in configuration, size and special features to allow the easy mounting of equipment.		
Geographical representativeness	Europe		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27
			[C1 - C4]
			Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators		APC NetShelter SX, Gen 2 - AR3100B2						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.17E+03	7.66E+02	4.26E+01	1.66E+01	0*	3.44E+02	-1.60E+03
Contribution to climate change-fossil	kg CO2 eq	1.18E+03	7.63E+02	4.26E+01	2.60E+01	0*	3.44E+02	-1.60E+03
Contribution to climate change-biogenic	kg CO2 eq	-7.15E+00	0*	0*	-9.39E+00	0*	0*	-3.74E+00
Contribution to climate change-land use and land use change	kg CO2 eq	4.59E-07	0*	0*	2.81E-07	0*	1.78E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.15E-05	5.28E-05	3.76E-05	1.96E-07	0*	9.29E-07	-2.35E-04
Contribution to acidification	mol H+ eq	7.82E+00	6.44E+00	1.85E-01	2.35E-02	0*	1.17E+00	-9.43E+00
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	9.23E-04	3.62E-04	4.99E-06	1.17E-04	0*	4.38E-04	-2.50E-03
Contribution to eutrophication marine	kg N eq	1.79E+00	1.49E+00	8.51E-02	8.55E-03	0*	2.10E-01	-9.28E-01
Contribution to eutrophication, terrestrial	mol N eq	1.96E+01	1.63E+01	9.22E-01	7.86E-02	0*	2.30E+00	-1.08E+01
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.77E+00	4.60E+00	3.02E-01	2.62E-02	0*	8.41E-01	-3.76E+00
Contribution to resource use, minerals and metals	kg Sb eq	1.42E-03	1.39E-03	0*	2.17E-07	0*	2.38E-05	-4.99E-01
Contribution to resource use, fossils	MJ	5.93E+04	3.34E+04	5.17E+02	5.65E+01	0*	2.54E+04	-3.66E+04
Contribution to water use	m3 eq	2.88E+02	1.53E+02	2.16E+00	1.40E+00	0*	1.32E+02	-6.64E+02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		APC NetShelter SX, Gen 2 - AR3100B2						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.19E+02	4.52E+01	0*	7.28E+01	0*	4.73E-01	-2.49E+02

