



Eaton 93PS Three Phase (8-10) KW UPS Without Battery (20KW Frame)

Representative product	BA01A9306A01000000 Product Category: Uninterruptible Power Supply (UPS) without energy storage system																		
Description of the product	Eaton 93PS Three Phase Uninterruptible Power Supply (UPS) is a high-performance, three-phase uninterruptible power supply engineered to deliver maximum efficiency, reliability, and flexibility for small to medium-sized critical applications. Designed with cutting-edge technology, it ensures continuous power protection for IT infrastructure, healthcare systems, and industrial operations. Eaton 93PS UPS is available in different power ratings from 8 kVA to 40 kVA with input voltage of 380/400/415V. The models included in this PEP are available with a power rating of 8 and 10 kVA																		
Product specifications	Power VA & W: 8 kVA/kW or 10 kVA/kW UPS Configuration: Three phase, operating in Double conversion mode/ Energy Saver System mode. UPS performance classification: UPS - VFI $\leq$ 10kW (Online double conversion) Product dimensions (D X W X H): 335 x 750 x 645 mm Mass of equipment: 76 kg Power factor: 1 Reference service life (Years): 10																		
Homogeneous Environmental Families Covered	The PEP concerns product offerings from Eaton BA01A9306A01000000, as mentioned below: <table border="1"> <thead> <tr> <th>Model</th><th>Description</th></tr> </thead> <tbody> <tr> <td>BA01A9306A01000000</td><td>93PS-10(20)-20-CM-MBS-6</td></tr> <tr> <td>BA01A0206A01000000</td><td>93PS-10(20)-20-0-6</td></tr> <tr> <td>BA01A0206A01100000</td><td>93PS-10(20)-15-0-6</td></tr> <tr> <td>BA01A0306A01000000</td><td>93PS-10(20)-20-0-MBS-6</td></tr> <tr> <td>BA01A0306A01100000</td><td>93PS-10(20)-15-0-MBS-6</td></tr> <tr> <td>BA01A9206A01000000</td><td>93PS-10(20)-20-CM-6</td></tr> <tr> <td>BA01A9206A01100000</td><td>93PS-10(20)-15-CM-6</td></tr> <tr> <td>BA01A9306A01100000</td><td>93PS-10(20)-15-CM-MBS-6</td></tr> </tbody> </table>	Model	Description	BA01A9306A01000000	93PS-10(20)-20-CM-MBS-6	BA01A0206A01000000	93PS-10(20)-20-0-6	BA01A0206A01100000	93PS-10(20)-15-0-6	BA01A0306A01000000	93PS-10(20)-20-0-MBS-6	BA01A0306A01100000	93PS-10(20)-15-0-MBS-6	BA01A9206A01000000	93PS-10(20)-20-CM-6	BA01A9206A01100000	93PS-10(20)-15-CM-6	BA01A9306A01100000	93PS-10(20)-15-CM-MBS-6
Model	Description																		
BA01A9306A01000000	93PS-10(20)-20-CM-MBS-6																		
BA01A0206A01000000	93PS-10(20)-20-0-6																		
BA01A0206A01100000	93PS-10(20)-15-0-6																		
BA01A0306A01000000	93PS-10(20)-20-0-MBS-6																		
BA01A0306A01100000	93PS-10(20)-15-0-MBS-6																		
BA01A9206A01000000	93PS-10(20)-20-CM-6																		
BA01A9206A01100000	93PS-10(20)-15-CM-6																		
BA01A9306A01100000	93PS-10(20)-15-CM-MBS-6																		

		BA80A0206A01000000	93PS-8(20)-20-0-6	
		BA80A0206A01100000	93PS-8(20)-15-0-6	
		BA80A0306A01000000	93PS-8(20)-20-0-MBS-6	
		BA80A0306A01100000	93PS-8(20)-15-0-MBS-6	
		BA80A9206A01000000	93PS-8(20)-20-CM-6	
		BA80A9206A01100000	93PS-8(20)-15-CM-6	
		BA80A9306A01000000	93PS-8(20)-20-CM-MBS-6	
		BA80A9306A01100000	93PS-8(20)-15-CM-MBS-6	
Functional unit	“To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 year.”			
Declared unit	“To ensure the supply of power to remain within specified characteristics to equipment with load of 10000 watts for a RSL of 10 years”			
Company information	Eaton Electric Oy Riistakuja 1, 01740 Vantaa, Finland; Email: productstewardship-es@eaton.com			

Constituent Materials of			
Reference Product:	9.36E+01 kg (with packaging)		
Materials	Category PEP Material	Mass (kg)	Percentage (%)
Metals	Steel	4.32E+01	46.1%
Others	Electronics	1.91E+01	20.4%
Others	Wood	1.42E+01	15.2%
Others	Cable	4.01E+00	4.3%
Metals	Aluminum	2.92E+00	3.1%
Metals	Stainless steel	1.64E+00	1.8%
Plastics	Polybutylene terephthalate	1.46E+00	1.6%
Plastics	Polyamide 66	1.24E+00	1.2%
Plastics	Polycarbonate	1.05E+00	1.1%
Others	Carton	1.03E+00	1.1%
Metals	Copper	4.99E-01	0.5%
Others	Glass Fiber	2.34E-01	0.5%
Plastics	Polyoxymethylene	4.15E-01	0.4%
Metals	Nickel	3.28E-01	0.3%
Plastics	Polyamide 6	4.75E-01	0.3%
Others	Miscellaneous	1.85E+00	2.0%
Total		9.36E+01	100 %

Substance Assessment	
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) by application of exemptions and the product contains lead (Pb), 1,2-dimethoxyethane, which are listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).	

Additional Environmental Information	
Manufacturing	The reference product is assembled at Eaton Electric Oy, Riistakuja 1, 01740 Vantaa, holding management system certifications according to ISO 14001 standards.

Distribution	Eaton is committed to minimizing weight and volume of product and its associated packaging material with focus to optimize transport efficiency.
Installation	During installation of the product only standard tools are needed, which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	Products consume energy during useful life which is considered to be 10 years (as per actual designed life). Product requires the maintenance of one DC filtering capacitors, One AC filtering capacitors, Two Fans, One Power supply PCB and One Battery.
End of life	The recyclability rate of the overall product is 47.8% if it is properly dismantled prior to shredding. The rate is calculated based on “WEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts														
The calculation of the environmental impacts is the result of the Product’s Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., “Cradle-to-Grave” including the following life cycle phases: production, distribution, installation, use and end of life. System modelling was carried out using the commercial LCA software EIME v6.2.5 with database version CODDE-2024-04 - updated on 2024-06-04. Indicators Set used: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0														
Manufacturing Phase	Product is assembled and prepared for shipment at the Eaton facility (Eaton Electric Oy, Riistakuja 1, 01740 Vantaa, Finland) Energy model used: Finland													
Distribution Phase	Customer location is assumed to be Europe. Intracontinental transport of 3500 km by lorry is considered as transport scenario from Eaton location to end user for this study based on PCR–ed4-EN-2021 09 06.													
Installation Phase	Product is installed in any European country. Hence, packaging waste treatment is considered in this phase considering country specific statistics as per PSR. Energy model used: Europe													
Use Phase	Reference lifetime: 10 years Energy model used: Europe. Usage profile: It has an average energy efficiency of 98.08% in Energy Saver System mode and 95.71% in Double conversion mode. The methodology for the calculation of electricity consumption is based on Uninterruptible Power Supplies (UPS) PSR. <table><tr><td>Operating loads</td><td>25%</td><td>50%</td><td>75%</td><td>100%</td></tr><tr><td>Proportion of Time spent at</td><td>0.0</td><td>0.3</td><td>0.4</td><td>0.3</td></tr></table> Total energy losses are calculated to be equal to 27725 kWh over the 10 years for Double conversion Mode. Product requires one DC filtering capacitor, One AC filtering capacitor, Two Fans, One Power supply PCB and One Battery replacement during its use life.				Operating loads	25%	50%	75%	100%	Proportion of Time spent at	0.0	0.3	0.4	0.3
Operating loads	25%	50%	75%	100%										
Proportion of Time spent at	0.0	0.3	0.4	0.3										
End of life Phase	Product disposed according to European WEEE guidelines. Energy model used: Europe													
Module-D	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.													

All environmental impacts are calculated for the declared unit, then data should be divided by the Factor calculated with below formulas to get functional unit result.

Factor for all the stages:

$$\frac{\text{Declared Unit Power (10000 W)} * \text{Declared Unit Lifetime (10year)}}{100 W * 1 year} = 1000$$

Environmental Impact considering for Functional Unit

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 – Use*	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
Climate change - total	kg CO2 eq.	1.14E+01	1.16E+00	2.10E-02	8.90E-02	1.01E+01	7.46E-02	2.83E-01	9.77E+00	-9.27E-02
Climate change - fossil fuels	kg CO2 eq.	1.14E+01	1.18E+00	2.10E-02	6.79E-02	1.00E+01	7.15E-02	2.83E-01	9.75E+00	-9.94E-02
Climate change - biogenics	kg CO2 eq.	2.37E-02	-1.92E-02	8.61E-08	2.11E-02	1.87E-02	3.06E-03	7.01E-04	1.80E-02	6.74E-03
Climate change - land use and land use transformation	kg CO2 eq.	2.88E-06	2.32E-06	3.18E-08	5.91E-10	5.32E-07	2.93E-09	5.32E-07	0.00E+00	0.00E+00
Ozone depletion	kg eq. CFC-11	2.37E-07	1.30E-07	2.55E-10	1.98E-10	1.00E-07	5.64E-09	5.30E-08	4.74E-08	-4.56E-09
Acidification (AP)	mole of H+ eq.	6.15E-02	8.12E-03	3.32E-05	4.12E-05	5.23E-02	9.78E-04	2.27E-03	5.01E-02	-8.72E-04
Freshwater eutrophication	kg P eq.	3.41E-05	5.22E-06	7.86E-08	5.04E-07	2.63E-05	1.98E-06	6.06E-07	2.57E-05	-6.78E-05
Marine aquatic eutrophication	kg of N eq.	7.95E-03	8.30E-04	6.03E-06	1.64E-05	6.49E-03	6.12E-04	3.92E-04	6.10E-03	-1.04E-04
Terrestrial eutrophication	mole of N eq.	1.13E-01	1.15E-02	6.61E-05	1.57E-04	1.00E-01	5.73E-04	2.39E-03	9.80E-02	-1.26E-03
Photochemical ozone formation	kg of NMVOC eq.	2.35E-02	3.21E-03	2.14E-05	3.48E-05	2.01E-02	1.97E-04	8.71E-04	1.92E-02	-5.18E-04
Depletion of abiotic resources - elements	kg eq. Sb	1.90E-04	1.59E-04	7.51E-09	6.03E-10	3.06E-05	1.55E-07	2.71E-05	3.46E-06	-5.71E-06
Depletion of abiotic resources - fossil fuels	MJ	2.87E+02	3.38E+01	3.74E-01	1.01E-01	2.51E+02	8.90E-01	4.73E+00	2.47E+02	-9.78E-01
Water scarcity	m3 of eq.. deprivation worldwide	2.82E+01	4.10E-01	7.58E-04	1.28E-03	4.24E+00	2.36E+01	3.49E+00	7.49E-01	-2.64E+01

***Note:** B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 – Use*	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	6.79E+01	2.35E+00	1.18E-03	7.47E-02	6.54E+01	1.03E-01	1.23E-01	6.53E+01	-1.20E-01
Use of renewable primary energy resources used as raw materials	MJ	2.93E-01	2.93E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.03E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.82E+01	2.65E+00	1.18E-03	7.47E-02	6.54E+01	1.03E-01	1.23E-01	6.53E+01	-2.23E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.86E+02	3.34E+01	3.74E-01	1.01E-01	2.51E+02	8.90E-01	4.66E+00	2.47E+02	-9.76E-01
Use of non-renewable primary energy resources used as raw materials	MJ	4.73E-01	4.03E-01	0.00E+00	0.00E+00	6.92E-02	0.00E+00	6.92E-02	0.00E+00	-1.54E-03
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.87E+02	3.38E+01	3.74E-01	1.01E-01	2.51E+02	8.90E-01	4.73E+00	2.47E+02	-9.78E-01
Use of secondary materials	kg	1.43E-04	4.15E-07	0.00E+00	0.00E+00	1.43E-04	0.00E+00	1.43E-04	0.00E+00	0.00E+00
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	0.00E+00	0.00E+00
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	0.00E+00	0.00E+00
Net use of fresh water	m3	7.62E-01	9.55E-03	1.76E-05	3.22E-05	1.09E-01	6.43E-01	9.16E-02	1.76E-02	-6.35E-01
Hazardous waste disposed of	kg	1.85E+00	1.10E+00	8.80E-05	2.51E-02	7.10E-01	1.54E-02	2.81E-01	4.28E-01	-6.44E-05
Non-hazardous waste disposed of	kg	2.08E+00	3.81E-01	1.95E-03	9.77E-04	1.70E+00	4.57E-04	4.83E-02	1.65E+00	-8.30E-04
Radioactive waste disposed of	kg	5.41E-04	1.36E-04	1.55E-06	3.43E-07	4.02E-04	2.92E-07	2.36E-05	3.79E-04	-4.42E-07

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 – Use*	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	2.46E-02	2.00E-02	0.00E+00	4.66E-03	4.55E-10	0.00E+00	4.55E-10	0.00E+00	0.00E+00
Materials for energy recovery	kg	8.14E-10	7.68E-10	0.00E+00	0.00E+00	4.62E-11	0.00E+00	4.62E-11	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	1.11E-03	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the product	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg of C.	6.22E-03	6.22E-03	0.00E+00	0.00E+00	6.12E-07	0.00E+00	6.12E-07	0.00E+00	0.00E+00

***Note:** B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	4.77E-07	5.74E-08	2.85E-10	2.25E-10	4.16E-07	3.29E-09	1.26E-08	4.03E-07	-8.27E-09
Ionizing radiation, human health	kBq of U235 eq.	6.90E+01	3.40E+01	7.44E-04	3.97E-02	3.49E+01	4.45E-03	2.09E+01	1.40E+01	-3.11E-03
Ecotoxicity, fresh water	CTUe	5.00E+01	2.50E+01	6.14E-01	1.87E+00	2.14E+01	1.24E+00	2.90E+00	1.85E+01	-4.95E-01
Human toxicity, cancer effects	CTUh	1.11E-05	1.11E-05	4.12E-12	1.70E-08	2.94E-09	3.92E-09	1.71E-09	1.23E-09	-1.00E-09
Human toxicity, non-cancer effects	CTUh	9.71E-08	4.67E-08	7.86E-11	2.14E-09	4.03E-08	7.86E-09	1.10E-08	2.94E-08	-7.08E-09
Impacts related to land use/soil quality	-	5.00E-01	1.63E-02	9.00E-05	8.28E-05	3.08E-01	1.75E-01	3.78E-02	2.70E-01	-5.27E-01
Total use of primary energy during the life cycle	MJ	3.55E+02	3.64E+01	3.75E-01	1.76E-01	3.17E+02	9.93E-01	4.86E+00	3.12E+02	-1.20E+00

Environmental Impact considering for Declared Unit

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 – Use*	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
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Climate change - total	kg CO2 eq.	1.14E+04	1.16E+03	2.10E+01	8.90E+01	1.01E+04	7.46E+01	2.83E+02	9.77E+03	-9.27E+01
Climate change - fossil fuels	kg CO2 eq.	1.14E+04	1.18E+03	2.10E+01	6.79E+01	1.00E+04	7.15E+01	2.83E+02	9.75E+03	-9.94E+01
Climate change - biogenics	kg CO2 eq.	2.37E+01	-1.92E+01	8.61E-05	2.11E+01	1.87E+01	3.06E+00	7.01E-01	1.80E+01	6.74E+00
Climate change - land use and land use transformation	kg CO2 eq.	2.88E-03	2.32E-03	3.18E-05	5.91E-07	5.32E-04	2.93E-06	5.32E-04	0.00E+00	0.00E+00
Ozone depletion	kg eq. CFC-11	2.37E-04	1.30E-04	2.55E-07	1.98E-07	1.00E-04	5.64E-06	5.30E-05	4.74E-05	-4.56E-06
Acidification (AP)	mole of H+ eq.	6.15E+01	8.12E+00	3.32E-02	4.12E-02	5.23E+01	9.78E-01	2.27E+00	5.01E+01	-8.72E-01
Freshwater eutrophication	kg P eq.	3.41E-02	5.22E-03	7.86E-05	5.04E-04	2.63E-02	1.98E-03	6.06E-04	2.57E-02	-6.78E-02
Marine aquatic eutrophication	kg of N eq.	7.95E+00	8.30E-01	6.03E-03	1.64E-02	6.49E+00	6.12E-01	3.92E-01	6.10E+00	-1.04E-01
Terrestrial eutrophication	mole of N eq.	1.13E+02	1.15E+01	6.61E-02	1.57E-01	1.00E+02	5.73E-01	2.39E+00	9.80E+01	-1.26E+00
Photochemical ozone formation	kg of NMVOC eq.	2.35E+01	3.21E+00	2.14E-02	3.48E-02	2.01E+01	1.97E-01	8.71E-01	1.92E+01	-5.18E-01
Depletion of abiotic resources - elements	kg eq. Sb	1.90E-01	1.59E-01	7.51E-06	6.03E-07	3.06E-02	1.55E-04	2.71E-02	3.46E-03	-5.71E-03
Depletion of abiotic resources - fossil fuels	MJ	2.87E+05	3.38E+04	3.74E+02	1.01E+02	2.51E+05	8.90E+02	4.73E+03	2.47E+05	-9.78E+02
Water scarcity	m3 of eq.. deprivation worldwide	2.82E+04	4.10E+02	7.58E-01	1.28E+00	4.24E+03	2.36E+04	3.49E+03	7.49E+02	-2.64E+04

***Note:** B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	6.79E+04	2.35E+03	1.18E+00	7.47E+01	6.54E+04	1.03E+02	1.23E+02	6.53E+04	-1.20E+02
Use of renewable primary energy resources used as raw materials	MJ	2.93E+02	2.93E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.03E+02
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.82E+04	2.65E+03	1.18E+00	7.47E+01	6.54E+04	1.03E+02	1.23E+02	6.53E+01	-2.23E+02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.86E+05	3.34E+04	3.74E+02	1.01E+02	2.51E+05	8.90E+02	4.66E+03	2.47E+02	-9.76E+02

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use		D - Benefits and loads beyond the system boundaries
Use of non-renewable primary energy resources used as raw materials	MJ	4.73E+02	4.03E+02	0.00E+00	0.00E+00	6.92E+01	0.00E+00	6.92E+01	0.00E+00		-1.54E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.87E+05	3.38E+04	3.74E+02	1.01E+02	2.51E+05	8.90E+02	4.73E+03	2.47E+05		-9.78E+02
Use of secondary materials	kg	1.43E-01	4.15E-04	0.00E+00	0.00E+00	1.43E-01	0.00E+00	1.43E-01	0.00E+00		0.00E+00
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	0.00E+00		0.00E+00
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	0.00E+00		0.00E+00
Net use of fresh water	m3	7.62E+02	9.55E+00	1.76E-02	3.22E-02	1.09E+02	6.43E+02	9.16E+01	1.76E+01		-6.35E+02
Hazardous waste disposed of	kg	1.85E+03	1.10E+03	8.80E-02	2.51E+01	7.10E+02	1.54E+01	2.81E+02	4.28E+02		-6.44E-02
Non-hazardous waste disposed of	kg	2.08E+03	3.81E+02	1.95E+00	9.77E-01	1.70E+03	4.57E-01	4.83E+01	1.65E+03		-8.30E-01
Radioactive waste disposed of	kg	5.41E-01	1.36E-01	1.55E-03	3.43E-04	4.02E-01	2.92E-04	2.36E-02	3.79E-01		-4.42E-04
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Materials for recycling	kg	2.46E+01	2.00E+01	0.00E+00	4.66E+00	4.55E-07	0.00E+00	4.55E-07	0.00E+00		0.00E+00
Materials for energy recovery	kg	8.14E-07	7.68E-07	0.00E+00	0.00E+00	4.62E-08	0.00E+00	4.62E-08	0.00E+00		0.00E+00
Exported energy	MJ by energy vector	1.11E+00	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Biogenic carbon content of the product	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Biogenic carbon content of the associated packaging	kg of C.	6.22E+00	6.22E+00	0.00E+00	0.00E+00	6.12E-04	0.00E+00	6.12E-04	0.00E+00		0.00E+00

***Note:** B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B1-B7 - Use	C1-C4 - End of life	B2 - Maintenance	B6 - Operational energy use		D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	4.77E-04	5.74E-05	2.85E-07	2.25E-07	4.16E-04	3.29E-06	1.26E-05	4.03E-04		-8.27E-06
Ionizing radiation, human health	kBq of U235 eq.	6.90E+04	3.40E+04	7.44E-01	3.97E+01	3.49E+04	4.45E+00	2.09E+04	1.40E+04		-3.11E+00
Ecotoxicity, fresh water	CTUe	5.00E+04	2.50E+04	6.14E+02	1.87E+03	2.14E+04	1.24E+03	2.90E+03	1.85E+04		-4.95E+02

Human toxicity, cancer effects	CTUh	1.11E-02	1.11E-02	4.12E-09	1.70E-05	2.94E-06	3.92E-06	1.71E-06	1.23E-06		-1.00E-06
Human toxicity, non-cancer effects	CTUh	9.71E-05	4.67E-05	7.86E-08	2.14E-06	4.03E-05	7.86E-06	1.10E-05	2.94E-05		-7.08E-06
Impacts related to land use/soil quality	-	5.00E+02	1.63E+01	9.00E-02	8.28E-02	3.08E+02	1.75E+02	3.78E+01	2.70E+02		-5.27E+02
Total use of primary energy during the life cycle	MJ	3.55E+05	3.64E+04	3.75E+02	1.76E+02	3.17E+05	9.93E+02	4.86E+03	3.12E+05		-1.20E+03

***Note:** B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Other Products covered in homogeneous family of Eaton BA01A9306A01000000 and the relevant data are shown in the table below:

Product family	Model	Description	UPS Rating (kVA)	Power factor (pf)	UPS Rating (KW)	UPS efficiency (Double conversion Mode) [%]	Use phase losses (DC Mode) (kWh)	Product Net weight (Actual) kg	Packaging weight (Actual) kg
Eaton 93 PS Three Phase UPS	BA01A9306A01000000	93PS-10(20)-20-CM-MBS-6	10	1	10	95.71	27725	76	20
Eaton 93 PS Three Phase UPS	BA01A0206A01000000	93PS-10(20)-20-0-6	10	1	10	95.71	27725	100	22
Eaton 93 PS Three Phase UPS	BA01A0206A01100000	93PS-10(20)-15-0-6	10	1	10	95.71	27725	100	22
Eaton 93 PS Three Phase UPS	BA01A0306A01000000	93PS-10(20)-20-0-MBS-6	10	1	10	95.71	27725	102	22
Eaton 93 PS Three Phase UPS	BA01A0306A01100000	93PS-10(20)-15-0-MBS-6	10	1	10	95.71	27725	102	22
Eaton 93 PS Three Phase UPS	BA01A9206A01000000	93PS-10(20)-20-CM-6	10	1	10	95.71	27725	74	20
Eaton 93 PS Three Phase UPS	BA01A9206A01100000	93PS-10(20)-15-CM-6	10	1	10	95.71	27725	74	20
Eaton 93 PS Three Phase UPS	BA01A9306A01100000	93PS-10(20)-15-CM-MBS-6	10	1	10	95.71	27725	76	20
Eaton 93 PS Three Phase UPS	BA80A0206A01000000	93PS-8(20)-20-0-6	8	1	8	95.45	23337	100	22

Eaton 93 PS Three Phase UPS	BA80A0206A01100000	93PS-8(20)-15-0-6	8	1	8	95.45	23337	100	22
Eaton 93 PS Three Phase UPS	BA80A0306A01000000	93PS-8(20)-20-0-MBS-6	8	1	8	95.45	23337	102	22
Eaton 93 PS Three Phase UPS	BA80A0306A01100000	93PS-8(20)-15-0-MBS-6	8	1	8	95.45	23337	102	22
Eaton 93 PS Three Phase UPS	BA80A9206A01000000	93PS-8(20)-20-CM-6	8	1	8	95.45	23337	74	20
Eaton 93 PS Three Phase UPS	BA80A9206A01100000	93PS-8(20)-15-CM-6	8	1	8	95.45	23337	74	20
Eaton 93 PS Three Phase UPS	BA80A9306A01000000	93PS-8(20)-20-CM-MBS-6	8	1	8	95.45	23337	76	20
Eaton 93 PS Three Phase UPS	BA80A9306A01100000	93PS-8(20)-15-CM-MBS-6	8	1	8	95.45	23337	76	20

To evaluate the environmental impact of other product covered by this PEP, apply the following conversion factors to the Environmental Impact shown above. The extrapolation factors are calculated based on PSR 10 section 3.6.

Conversion Factors for Manufacturing, Distribution, Installation, Use and End-of-Life Phase for all environmental impacts for declared unit impacts:

Model	A1-A3 Manufacturing	A4 Distribution	A5 Installation	B2 Use Phase	B6 Use Phase (Double conversioOn Mode)	B6 Use Phase (Energy Saver Mode)	C1-C4 End-of Life	D - Benefits and loads beyond the system boundaries
BA01A9306A01000000 (Reference)	1.00	1.00	1.00	1.00	1.00	0.43	1.00	1.00
BA01A0206A01000000	1.32	1.32	1.10	1.32	1.00	0.43	1.32	1.27
BA01A0206A01100000	1.32	1.32	1.10	1.32	1.00	0.43	1.32	1.27
BA01A0306A01000000	1.34	1.34	1.10	1.34	1.00	0.43	1.34	1.29
BA01A0306A01100000	1.34	1.34	1.10	1.34	1.00	0.43	1.34	1.29
BA01A9206A01000000	0.97	0.97	1.00	0.97	1.00	0.43	0.97	0.98

Model	A1-A3 Manufacturing	A4 Distribution	A5 Installation	B2 Use Phase	B6 Use Phase (Double conversioOn Mode)	B6 Use Phase (Energy Saver Mode)	C1-C4 End-of Life	D - Benefits and loads beyond the system boundaries
BA01A9206A01100000	0.97	0.97	1.00	0.97	1.00	0.43	0.97	0.98
BA01A9306A01100000	1.00	1.00	1.00	1.00	1.00	0.43	1.00	1.00
BA80A0206A01000000	1.32	1.32	1.10	1.32	0.84	0.41	1.32	1.27
BA80A0206A01100000	1.32	1.32	1.10	1.32	0.84	0.41	1.32	1.27
BA80A0306A01000000	1.34	1.34	1.10	1.34	0.84	0.41	1.34	1.29
BA80A0306A01100000	1.34	1.34	1.10	1.34	0.84	0.41	1.34	1.29
BA80A9206A01000000	0.97	0.97	1.00	0.97	0.84	0.41	0.97	0.98
BA80A9206A01100000	0.97	0.97	1.00	0.97	0.84	0.41	0.97	0.98
BA80A9306A01000000	1.00	1.00	1.00	1.00	0.84	0.41	1.00	1.00
BA80A9306A01100000	1.00	1.00	1.00	1.00	0.84	0.41	1.00	1.00

To get functional unit impacts, the declared unit results of specific part numbers need to be divided by the below factors calculated as per PSR10 section 3.1.3:

Model	FU factor for All phases
93PS-10(20)-20-CM-MBS-6 (Reference)	1000
93PS-10(20)-20-0-6	1000
93PS-10(20)-15-0-6	1000
93PS-10(20)-20-0-MBS-6	1000
93PS-10(20)-15-0-MBS-6	1000
93PS-10(20)-20-CM-6	1000
93PS-10(20)-15-CM-6	1000
93PS-10(20)-15-CM-MBS-6	1000
93PS-8(20)-20-0-6	800
93PS-8(20)-15-0-6	800
93PS-8(20)-20-0-MBS-6	800
93PS-8(20)-15-0-MBS-6	800
93PS-8(20)-20-CM-6	800
93PS-8(20)-15-CM-6	800

93PS-8(20)-20-CM-MBS-6	800
93PS-8(20)-15-CM-MBS-6	800

Disclaimer

This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

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Verifier accreditation Number	VH53	Supplemented by	PSR-0010-ed2-EN-2023 12 08
Date of issue	10-2025	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
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 The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			