Product Environmental Profile



Eaton 5P 1150/1550 RT Li-Ion Gen2

Representative product	Eaton 5P1550IRT2UNG2-L Product Category: Uninterruptible Power Supply (UPS) with energy storage
Description of the product	Eaton 5P 1150/1550 RT Li-Ion Gen2 is a compact footprint for users who need continuous power supply like in clinics, hospitals, financial institutions, businesses or IT installations.
Product specifications	Power VA & W: 1550VA/1350W UPS Configuration: Single phase, operating in normal mode. UPS performance classification: UPS - VI (Line Interactive) Technology of the energy storage system: Lithium-ion battery (Li-Ion) Product dimensions (H X W X D): 86.4 x 438 x 554 mm Mass of equipment (Unit + accessories): 15.6 kg + 1.9 kg Power factor: 0.87 Reference service life (Years): 5
Homogeneous Environmental Families Covered	The PEP concerns product offerings from Eaton 5P 1150/1550 RT Li-Ion Gen2 series as mentioned below:

Product family	Model	Description	UPS Rating (VA)	UPS Rating (W)	Backup time (min)	UPS efficiency [%]	Product Net weight (Actual) kg	Packaging weight (Actual) kg
Eaton 5P 1150/1550 RT Li-Ion Gen2	5P1550IRT2UNG2-L (Reference)	Eaton 5P1550i RT 2U Netpack Li-Ion G2	1550	1350	6	98.94%	13.7	4.1
	5P1550IRT2UG2-L	Eaton 5P1550i RT 2U Li-Ion G2	1550	1350	6	98.94%	13.3	4.1
	5P1150IRT2UNG2-L	Eaton 5P1150i RT 2U Netpack Li-Ion G2	1150	920	8.8	98.72%	13.5	4.1
	5P1150IRT2UG2-L	Eaton 5P1150i RT 2U Li-Ion G2	1150	920	8.8	98.72%	13.1	4.1

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 ensure the supply of power without interruption to equipment with load of 1350 watts for a RSL of 5 years, including a backup time capacity of 6 minutes (at full load condition) during power shortages
Company information	Eaton Lianzheng Electronic (Shenzhen) Co., Ltd. No.4 Liufang Road, Block 67, Bao'an District, Shenzhen, Guangdong, P.R. China Email: productstewardship-es@eaton.com

Constituent Materials of Reference Product:	1.79E+01 kg (with packaging)		
Materials	**Category PEP Material**	**Mass (kg)**	**Percentage (%)**
Metals	Steel	5.68E+00	31.7%
Other	Li-Ion Battery	4.15E+00	23.2%
Other	Corrugated cardboard	2.06E+00	11.5%
Other	Electronics	1.56E+00	8.7%
Other	Wood	1.28E+00	7.1%
Other	Cable	7.45E-01	4.2%
Plastics	Low density Polyethylene (LDPE)	5.55E-01	3.1%
Metals	Aluminium	4.38E-01	2.4%
Plastics	Acrylonitrile Butadiene Styrene (ABS)	4.08E-01	2.3%
Other	Printed Wiring Board	3.22E-01	1.8%
Plastics	Polyester	3.05E-01	1.7%
Other	Paper	1.33E-01	0.7%
Plastics	Polycarbonate (PC)	6.77E-02	0.4%
Other	Silica	4.88E-02	0.3%
Other	Kraftliner	4.00E-02	0.2%
Other	Miscellaneous	1.22E-01	0.7%
Total		**1.79E+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) in copper alloy and electronics, which is 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 an Eaton plant (LianZheng Electronic (ShenZhen) Co., Ltd.) 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	Product consumes energy during useful life which is considered to be 5 years (as per actual designed life). During the reference service life of product, product doesn't require any maintenance.
End of life	The recyclability rate of the overall product is 57.33% if properly dismantled prior to further processing at a recycling facility. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

<table>
<tr><th colspan="2">Environmental Impacts</th></tr>
<tr><td colspan="2">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 v6.3.4 with database version CODDE-2025-04.
Indicators Set used: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0</td></tr>
<tr><td>Manufacturing Phase</td><td>Product is assembled and prepared for shipment at the Eaton facility, Lianzheng Electronic (Shenzhen) Co., Ltd.
Energy model used: Europe, China, Global</td></tr>
<tr><td>Distribution Phase</td><td>Europe is the major market, an intracontinental transport distance of 3500 km by lorry from the Eaton warehouse in Germany to the end user.</td></tr>
<tr><td>Installation Phase</td><td>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</td></tr>
<tr><td>Use Phase</td><td>Reference lifetime: 5 years
Energy model used: Europe.
Usage profile: It has an average energy efficiency of 98.94 %. 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>0.00</td><td>0.30</td><td>0.40</td><td>0.30</td></tr></table>Total energy losses are calculated to be equal to 0.46 MWh over the 5 years.</td></tr>
<tr><td>End of life Phase</td><td>Product disposed of according to European WEEE guidelines.
Energy model used: Europe</td></tr>
<tr><td>Module-D</td><td>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.</td></tr>
</table>

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 use stage energy consumption B6:

$$\frac{Declared\ Unit\ Power\ (1350\ W) * Declared\ Unit\ Lifetime\ (5\ year)}{100\ W * 1\ year} = \mathbf{67.5}$$

Factor for all other stages (except B6 of use stage):

$$\frac{Declared\ Unit\ Power\ (1350\ W) * Declared\ Unit\ Lifetime\ (5\ year) * Declared\ Unit\ Backuptime\ (6\ min)}{100\ W * 1\ year * 5\ min} = \mathbf{81}$$

Environmental Impact 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 CO_2 eq.	6.38E+00	3.33E+00	6.11E-02	9.91E-02	2.68E+00	2.15E-01	0.00E+00	2.68E+00	-1.21E+00
Climate change - fossil fuels	kg CO_2 eq.	6.30E+00	3.39E+00	6.11E-02	3.55E-02	2.62E+00	2.04E-01	0.00E+00	2.62E+00	-1.24E+00
Climate change - biogenics	kg CO_2 eq.	7.94E-02	-5.56E-02	2.03E-07	6.37E-02	6.03E-02	1.11E-02	0.00E+00	6.03E-02	3.09E-02
Climate change - land use and land use transformation	kg CO_2 eq.	2.70E-06	2.59E-06	7.51E-08	7.89E-10	0.00E+00	3.24E-08	0.00E+00	0.00E+00	-6.23E-07
Ozone depletion	kg eq. CFC-11	1.74E-06	1.72E-06	6.31E-10	6.50E-10	1.18E-08	1.14E-08	0.00E+00	1.18E-08	-9.77E-07
Acidification (AP)	mole of H+ eq.	3.62E-02	1.97E-02	1.15E-04	1.32E-04	1.44E-02	1.79E-03	0.00E+00	1.44E-02	-6.39E-03
Freshwater eutrophication	kg P eq.	9.23E-04	9.14E-04	2.22E-07	4.06E-07	6.67E-06	1.34E-06	0.00E+00	6.67E-06	-5.47E-04
Marine aquatic eutrophication	kg of N eq.	6.87E-03	4.31E-03	2.92E-05	4.64E-05	1.67E-03	8.13E-04	0.00E+00	1.67E-03	-1.79E-03
Terrestrial eutrophication	mole of N eq.	6.09E-02	3.20E-02	3.20E-04	4.01E-04	2.68E-02	1.40E-03	0.00E+00	2.68E-02	-1.05E-02
Photochemical ozone formation	kg of NMVOC eq.	1.64E-02	1.05E-02	9.02E-05	8.83E-05	5.29E-03	4.48E-04	0.00E+00	5.29E-03	-3.64E-03
Depletion of abiotic resources - elements	kg eq. Sb	9.16E-04	9.15E-04	1.82E-08	2.85E-09	9.01E-07	2.14E-08	0.00E+00	9.01E-07	-9.39E-05
Depletion of abiotic resources - fossil fuels	MJ	1.29E+02	6.04E+01	1.05E+00	4.35E-01	6.51E+01	2.39E+00	0.00E+00	6.51E+01	-1.54E+01
Water scarcity	m^3 of eq. deprivation worldwide	3.99E+01	2.68E+01	1.92E-03	3.01E-03	2.09E-01	1.30E+01	0.00E+00	2.09E-01	-1.58E+01

*__Note__: B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B2-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	1.75E+01	1.63E+00	2.78E-03	1.30E-01	1.56E+01	1.42E-01	0.00E+00	1.56E+01	-3.19E-01
Use of renewable primary energy resources used as raw materials	MJ	1.09E+00	1.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.78E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.86E+01	2.72E+00	2.78E-03	1.30E-01	1.56E+01	1.42E-01	0.00E+00	1.56E+01	-7.97E-01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	1.28E+02	5.90E+01	1.05E+00	4.35E-01	6.51E+01	2.39E+00	0.00E+00	6.51E+01	-1.50E+01
Use of non-renewable primary energy resources used as raw materials	MJ	1.42E+00	1.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.45E-01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.29E+02	6.04E+01	1.05E+00	4.35E-01	6.51E+01	2.39E+00	0.00E+00	6.51E+01	-1.54E+01
Use of secondary materials	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
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	9.68E-01	6.23E-01	4.47E-05	2.01E-04	4.89E-03	3.40E-01	0.00E+00	4.89E-03	-3.69E-01
Hazardous waste disposed of	kg	2.89E+01	2.85E+01	2.09E-04	8.18E-03	7.65E-02	2.47E-01	0.00E+00	7.65E-02	-1.75E+01
Non-hazardous waste disposed of	kg	2.16E+00	1.62E+00	4.61E-03	9.16E-03	4.15E-01	1.05E-01	0.00E+00	4.15E-01	-1.08E+00
Radioactive waste disposed of	kg	1.20E-03	1.10E-03	3.65E-06	2.26E-06	9.20E-05	7.16E-06	0.00E+00	9.20E-05	-7.45E-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	9.01E-02	9.70E-05	0.00E+00	2.89E-02	0.00E+00	6.11E-02	0.00E+00	0.00E+00		0.00E+00
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	0.00E+00		0.00E+00
Exported energy	MJ by energy vector	4.00E-04	4.00E-04	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.	1.96E-02	1.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		-1.11E-02

*__Note__: B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B2-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	2.43E-07	1.21E-07	1.78E-09	8.24E-10	1.12E-07	6.72E-09	0.00E+00	1.12E-07		-1.54E-07
Ionizing radiation, human health	kBq of U235 eq.	4.16E+01	3.79E+01	1.78E-03	7.74E-03	3.64E+00	3.07E-02	0.00E+00	3.64E+00		-4.20E-01
Ecotoxicity, fresh water	CTUe	1.18E+02	4.22E+01	1.45E+00	5.67E-01	4.15E+00	6.98E+01	0.00E+00	4.15E+00		-1.92E+01
Human toxicity, cancer effects	CTUh	6.54E-08	4.57E-08	9.80E-12	3.10E-09	3.33E-10	1.63E-08	0.00E+00	3.33E-10		-7.85E-07
Human toxicity, non-cancer effects	CTUh	2.34E-07	2.15E-07	1.89E-10	1.39E-10	8.17E-09	1.07E-08	0.00E+00	8.17E-09		-1.06E-07
Impacts related to land use/soil quality	-	9.24E-01	7.11E-01	2.13E-04	2.60E-04	6.98E-02	1.42E-01	0.00E+00	6.98E-02		-4.18E-01
Total use of primary energy during the life cycle	MJ	1.48E+02	6.32E+01	1.05E+00	5.65E-01	8.07E+01	2.53E+00	0.00E+00	8.07E+01		-1.62E+01

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

Environmental Impact 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
Climate change - total	kg CO_2 eq.	4.81E+02	2.70E+02	4.95E+00	8.03E+00	1.81E+02	1.74E+01	0.00E+00	1.81E+02	-9.76E+01
Climate change - fossil fuels	kg CO_2 eq.	4.75E+02	2.74E+02	4.95E+00	2.88E+00	1.77E+02	1.65E+01	0.00E+00	1.77E+02	-1.00E+02
Climate change - biogenics	kg CO_2 eq.	5.62E+00	-4.50E+00	1.65E-05	5.16E+00	4.07E+00	8.98E-01	0.00E+00	4.07E+00	2.50E+00
Climate change - land use and land use transformation	kg CO_2 eq.	2.19E-04	2.10E-04	6.09E-06	6.39E-08	0.00E+00	2.62E-06	0.00E+00	0.00E+00	-5.05E-05
Ozone depletion	kg eq. CFC-11	1.41E-04	1.39E-04	5.11E-08	5.27E-08	7.99E-07	9.21E-07	0.00E+00	7.99E-07	-7.91E-05
Acidification (AP)	mole of H+ eq.	2.74E+00	1.60E+00	9.28E-03	1.07E-02	9.71E-01	1.45E-01	0.00E+00	9.71E-01	-5.17E-01
Freshwater eutrophication	kg P eq.	7.47E-02	7.41E-02	1.80E-05	3.29E-05	4.50E-04	1.09E-04	0.00E+00	4.50E-04	-4.43E-02
Marine aquatic eutrophication	kg of N eq.	5.34E-01	3.49E-01	2.36E-03	3.76E-03	1.13E-01	6.59E-02	0.00E+00	1.13E-01	-1.45E-01
Terrestrial eutrophication	mole of N eq.	4.57E+00	2.59E+00	2.59E-02	3.25E-02	1.81E+00	1.13E-01	0.00E+00	1.81E+00	-8.51E-01
Photochemical ozone formation	kg of NMVOC eq.	1.25E+00	8.47E-01	7.31E-03	7.16E-03	3.57E-01	3.63E-02	0.00E+00	3.57E-01	-2.95E-01
Depletion of abiotic resources - elements	kg eq. Sb	7.42E-02	7.41E-02	1.47E-06	2.31E-07	6.08E-05	1.73E-06	0.00E+00	6.08E-05	-7.60E-03
Depletion of abiotic resources - fossil fuels	MJ	9.61E+03	4.90E+03	8.47E+01	3.52E+01	4.40E+03	1.93E+02	0.00E+00	4.40E+03	-1.24E+03
Water scarcity	m^3 of eq. deprivation worldwide	3.23E+03	2.17E+03	1.55E-01	2.44E-01	1.41E+01	1.05E+03	0.00E+00	1.41E+01	-1.28E+03

*__Note__: B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B2-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	1.21E+03	1.32E+02	2.25E-01	1.05E+01	1.05E+03	1.15E+01	0.00E+00	1.05E+03	-2.58E+01
Use of renewable primary energy resources used as raw materials	MJ	8.85E+01	8.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.87E+01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.29E+03	2.21E+02	2.25E-01	1.05E+01	1.05E+03	1.15E+01	0.00E+00	1.05E+03	-6.46E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	9.49E+03	4.78E+03	8.47E+01	3.52E+01	4.40E+03	1.93E+02	0.00E+00	4.40E+03	-1.22E+03
Use of non-renewable primary energy resources used as raw materials	MJ	1.15E+02	1.15E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.80E+01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	9.61E+03	4.90E+03	8.47E+01	3.52E+01	4.40E+03	1.93E+02	0.00E+00	4.40E+03	-1.24E+03
Use of secondary materials	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
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	7.83E+01	5.05E+01	3.62E-03	1.63E-02	3.30E-01	2.75E+01	0.00E+00	3.30E-01	-2.99E+01
Hazardous waste disposed of	kg	2.34E+03	2.31E+03	1.69E-02	6.62E-01	5.16E+00	2.00E+01	0.00E+00	5.16E+00	-1.42E+03
Non-hazardous waste disposed of	kg	1.69E+02	1.31E+02	3.73E-01	7.42E-01	2.80E+01	8.52E+00	0.00E+00	2.80E+01	-8.75E+01
Radioactive waste disposed of	kg	9.60E-02	8.88E-02	2.96E-04	1.83E-04	6.21E-03	5.80E-04	0.00E+00	6.21E-03	-6.03E-02
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	7.30E+00	7.85E-03	0.00E+00	2.34E+00	0.00E+00	4.95E+00	0.00E+00	0.00E+00	0.00E+00
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	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	3.24E-02	3.24E-02	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.	1.59E+00	1.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.96E-01

*__Note__: B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B2-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	1.82E-05	9.83E-06	1.44E-07	6.67E-08	7.59E-06	5.45E-07	0.00E+00	7.59E-06	-1.25E-05
Ionizing radiation, human health	kBq of U235 eq.	3.32E+03	3.07E+03	1.44E-01	6.27E-01	2.46E+02	2.49E+00	0.00E+00	2.46E+02	-3.40E+01
Ecotoxicity, fresh water	CTUe	9.52E+03	3.42E+03	1.18E+02	4.59E+01	2.80E+02	5.65E+03	0.00E+00	2.80E+02	-1.55E+03
Human toxicity, cancer effects	CTUh	5.29E-06	3.70E-06	7.94E-10	2.51E-07	2.25E-08	1.32E-06	0.00E+00	2.25E-08	-6.36E-05
Human toxicity, non-cancer effects	CTUh	1.89E-05	1.74E-05	1.53E-08	1.13E-08	5.52E-07	8.70E-07	0.00E+00	5.52E-07	-8.60E-06
Impacts related to land use/soil quality	-	7.39E+01	5.76E+01	1.72E-02	2.11E-02	4.71E+00	1.15E+01	0.00E+00	4.71E+00	-3.39E+01
Total use of primary energy during the life cycle	MJ	1.09E+04	5.12E+03	8.49E+01	4.57E+01	5.45E+03	2.05E+02	0.00E+00	5.45E+03	-1.31E+03

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

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 the PSR 10 section 3.6:

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

Product Number	Manufacturing	Distribution	Installation	Use-B6	End of Life
5P1550IRT2UNG2-L (Reference - Declared Unit)	1.00	1.00	1.00	1.00	1.00
5P1550IRT2UG2-L	0.98	0.98	1.00	1	0.97
5P1150IRT2UNG2-L	0.99	0.99	1.00	0.81	0.98
5P1150IRT2UG2-L	0.97	0.97	1.00	0.81	0.96

Above extrapolation factor needs to be multiplied to declare unit environmental impacts. To get functional unit impacts, the declared unit results of specific product number need to be divided by below factors calculated as per PSR10 section 3.1.3:

Product No.	Product Description	FU factor for Use B6	FU factor for other phases (Excluding B6)
5P1550IRT2UNG2-L (Reference - Declared Unit)	Eaton 5P1550i RT 2U Netpack Li-Ion G2	67.5	81
5P1550IRT2UG2-L	Eaton 5P1550i RT 2U Li-Ion G2	67.5	81
5P1150IRT2UNG2-L	Eaton 5P1150i RT 2U Netpack Li-Ion G2	46	80.9
5P1150IRT2UG2-L	Eaton 5P1150i RT 2U Li-Ion G2	46	80.9

Disclaimer

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		Validity period	5 years
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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 or 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"			