

Product Environmental Profile

UPS TriMOD 10-80kW



REFERENCE PRODUCT

Function	<p>Functional Unit definition: 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.</p> <p>Declared Unit definition: To ensure the supply of power without interruption to equipment with load of 10000 watts for a RSL of 10 years, including a backup time capacity of 49 minutes during power shortages.</p>
Reference Product	<div data-bbox="925 604 1149 1187">  </div> <p>311298 + 3 x 311315 + 4 x 311319</p> <p>TriMOD Three-phase modular UPS system - 10kW - high cabinet 1650x414x628mm - Modular, expandable and redundant UPS system - On-line double conversion VFI-SS-11 - Automatic bypass - Technology of energy storage: lead batteries VRLA - Total mass without packaging: 367 kg</p> <p>Correction factor between Declared Unit and Functional Unit:</p> <p>Manufacturing, Distribution, Installation and End of Life phases: 9800. Use phase: 1000</p>

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



PRODUCTS CONCERNED

The environmental data is representative of the following products:

Catalogue Numbers
311275, 311276, 311277, 311278, 311279, 311280, 311281, 311282, 311283, 311284, 311285, 311286, 311287, 311288, 311289, 311290, 311291, 311292, 311293, 311294, 311295, 311296, 311297, 311298, 311299, 311300, 311301, 311302, 311303, 311304, 311305, 311306, 311307, 311308, 311309, 311310, 311311, 311312, 311315, 311316, 311317, 311318, 311319, 311320, 311321, 311322, 311323, 311324, 311325, 311326, 311327, 311328

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■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of Reference Product	404.98 kg (all packaging included)
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Product alone weight 366.87 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyamide	0.8 %	Steel	26.1 %	Batteries	49.5 %
Polycarbonate	0.8 %	Aluminum	1.2 %	Cables / Electrical wires	9.4 %
Polyurethane	0.3 %	Copper and copper alloys	0.6 %	Electronic cards	0.9 %
PVC	0.1 %	Various metal	< 0.1 %	Various components	0.7 %
Various plastics	0.3 %				

Packaging (alone) : 38.11 kg					
				Wood	6.8 %
				Cardboard	2.3 %
				Paper	0.2 %
Total plastics : 9.31 kg	2.3 %	Total metals : 112.99 kg	27.9 %	Total others : 282.68 kg	69.8 %

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 10 % by mass
- Packaging only: 23 % by mass



■ MANUFACTURE

This Reference Product comes from a site that has received ISO14001 certification. The final assembly site is located in Italy.



■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 1325 km by road from our warehouse to the local point of distribution into the European market.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste.



■ INSTALLATION

For the installation of the product, only standard tools are needed.



■ USE

Under normal conditions of use, this product requires maintenance. In particular these are the components considered to be substituted during 10 years:

- DC and AC capacitors of filtering and related PCBs (1 time);
- Fans (2 times);
- Power supply PCBs (1 time);
- Batteries (1 time).

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END OF LIFE

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Elements to process specifically:

The following elements may be subject to specific treatments in appropriate channels to reduce the environmental impact of the end of product life:

- Electronic cards: 3785 g
- External electrical cables: 33452 g
- Lead batteries*: 200000 g

(*) Hazardous waste as defined by European Commission decision 2000/532/EU.

• Extended producer responsibility:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 62%. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging) : 2 %
- metal materials (excluding packaging) : 28 %
- other materials (excluding packaging) : 26 %
- packaging (all types of materials) : 7 %



ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: Manufacturing, Distribution, Installation, Use and End of Life. It is representative from products marketed and used worldwide, in compliance with the local current standards. The datasets collected in this PEP are representative of the year 2026.

For each phase, the following modelling elements were taken in account:

System Limit	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing. Mathematical correlation between Declared Unit and Functional Unit for B6 of use stage: 1000. Mathematical correlation between Declared Unit and Functional Unit: 9800.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area. Mathematical correlation between Declared Unit and Functional Unit: factor 9800.
	Installation A5	The end of life of the packaging. Mathematical correlation between Declared Unit and Functional Unit: factor 9800.
	Use B1-B7	<ul style="list-style-type: none"> • Product category: PSR-0010-ed2.0-EN-2023 12 08 - UPS with energy storage system. • Use scenario: consumption of 28198 kWh during the 10 years working life due to an average energy efficiency of 95.7 %. The substitution of the maintenance components as indicated in the Use paragraph. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix_Low voltage_2022_Europe_EU-27. Mathematical correlation between Declared Unit and Functional Unit: factor 1000.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06. Mathematical correlation between Declared Unit and Functional Unit: 9800.
D Module		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 burdens beyond the boundaries of the system, and are not to be included in the life cycle totals. Mathematical correlation between Declared Unit and Functional Unit: factor 9800.
Software and data-base used		EIME V6 and its CODDE-2025-04 database The set of indicators used is Indicators for PEF EF 3.1 (compliance: PEF ed.4, EN15804+A2) v2.0

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aforementioned database.

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ENVIRONMENTAL IMPACTS

The following 3 tables report the environmental impact values referred to the Functional Unit.

	Total Life Cycle		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	1.42E-03	kg CO ₂ eq.	1.50E-04	2.24E-06	1.42E-06	1.23E-03	6.32E-05	1.16E-03	3.22E-05	-5.10E-05
Climate change - fossil fuels	1.39E-03	kg CO ₂ eq.	1.54E-04	2.24E-06	5.72E-06	1.20E-03	6.32E-05	1.14E-03	3.20E-05	-4.97E-05
Climate change - biogenics	2.73E-05	kg CO ₂ eq.	-4.28E-06	0*	3.57E-14	2.57E-05	3.42E-08	2.57E-05	1.38E-07	-1.37E-06
Climate change - land use and land use transformation	5.94E-10	kg CO ₂ eq.	5.08E-10	3.24E-12	0*	5.68E-11	5.68E-11	0.00E+00	2.57E-11	3.10E-12
Ozone depletion	5.22E-11	kg CFC-11 eq.	2.82E-11	2.56E-14	8.03E-09	2.23E-11	1.73E-11	4.98E-12	1.66E-12	-1.04E-11
Acidification (AP)	8.22E-06	mole of H ⁺ eq.	1.37E-06	3.54E-09	1.72E-12	6.67E-06	5.81E-07	6.09E-06	1.64E-07	-4.15E-07
Freshwater eutrophication	4.13E-09	kg P eq.	8.97E-10	8.23E-12	1.91E-09	3.14E-09	3.54E-10	2.79E-09	8.71E-11	-1.68E-10
Marine aquatic eutrophication	9.47E-07	kg of N eq.	1.30E-07	6.79E-10	2.55E-08	7.91E-07	7.89E-08	7.12E-07	2.35E-08	-5.18E-08
Terrestrial eutrophication	1.40E-05	mole of N eq.	1.44E-06	7.45E-09	5.39E-09	1.23E-05	8.62E-07	1.14E-05	2.92E-07	-5.69E-07
Photochemical ozone formation	3.12E-06	kg NMVOC eq.	4.93E-07	2.38E-09	2.12E-13	2.54E-06	2.80E-07	2.26E-06	7.83E-08	-1.96E-07
Depletion of abiotic resources - elements	2.14E-07	kg Sb eq.	1.20E-07	0*	0*	9.38E-08	9.34E-08	3.77E-10	0*	-5.43E-08
Depletion of abiotic resources - fossil fuels	3.47E-02	MJ	4.78E-03	3.91E-05	8.22E-08	2.93E-02	1.38E-03	2.79E-02	6.14E-04	-2.22E-03
Water requirement	2.41E-04	m ³ deprivation worldwide eq.	1.15E-04	7.97E-08	5.59E-14	1.15E-04	2.68E-05	8.82E-05	1.04E-05	-2.32E-05
Emission of fine particles	6.01E-11	incidence of diseases	8.17E-12	3.11E-14	5.51E-07	5.08E-11	3.13E-12	4.77E-11	1.08E-12	-2.21E-12

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Total Life Cycle			Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	1.63E-03	kBq of U235 eq.	9.09E-05	0*	3.35E-05	1.53E-03	4.84E-06	1.52E-03	8.07E-06	-2.11E-06
Ecotoxicity (fresh water)	1.19E-02	CTUe	7.79E-03	6.13E-05	2.57E-16	3.36E-03	1.61E-03	1.74E-03	6.79E-04	-2.28E-04
Human toxicity, carcinogenic effects	2.96E-12	CTUh	2.20E-12	4.12E-16	0*	7.50E-13	6.06E-13	1.44E-13	8.32E-15	-2.74E-13
Human toxicity, non-carcinogenic effects	1.98E-10	CTUh	1.01E-10	0*	0*	9.66E-11	9.32E-11	3.41E-12	2.87E-13	-5.51E-11
Impacts related to land use/soil quality	3.93E-05	-	7.59E-06	9.18E-09	2.39E-06	3.11E-05	2.67E-07	3.08E-05	6.06E-07	7.31E-09
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	6.68E-03	MJ	1.03E-04	0*	0.00E+00	6.54E-03	9.13E-06	6.53E-03	3.16E-05	-7.19E-06
Use of renewable primary energy resources used as raw materials	9.20E-05	MJ	9.20E-05	0.00E+00	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	6.77E-03	MJ	1.95E-04	0*	2.67E-05	6.54E-03	9.13E-06	6.53E-03	3.16E-05	8.54E-06
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	3.46E-02	MJ	4.67E-03	3.91E-05	0.00E+00	2.92E-02	1.35E-03	2.79E-02	6.14E-04	-2.20E-03
Use of non-renewable primary energy resources used as raw materials	1.47E-04	MJ	1.10E-04	0.00E+00	2.67E-05	3.62E-05	3.62E-05	0.00E+00	0.00E+00	-2.04E-05
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	3.47E-02	MJ	4.78E-03	3.91E-05	0.00E+00	2.93E-02	1.38E-03	2.79E-02	6.14E-04	-2.22E-03

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Total Life Cycle			Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	6.18E-06	kg	6.18E-06	0.00E+00	0.00E+00	9.70E-10	9.70E-10	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	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
Use of non-renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	1.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	5.69E-06	m³	2.68E-06	1.86E-09	1.45E-06	2.69E-06	6.25E-07	2.06E-06	3.19E-07	-5.40E-07
Hazardous waste disposed of	6.51E-04	kg	5.85E-04	0*	1.92E-07	4.30E-05	1.09E-05	3.21E-05	2.16E-05	-3.27E-05
Non-hazardous waste disposed of	2.31E-04	kg	3.00E-05	1.99E-07	8.05E-11	1.81E-04	5.54E-06	1.75E-04	2.00E-05	-5.97E-06
Radioactive waste disposed of	6.85E-08	kg	2.03E-08	1.58E-10	0.00E+00	4.57E-08	4.40E-09	4.13E-08	2.26E-09	-5.01E-09
Components for re-use	0.00E+00	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
Materials for recycling	5.05E-05	kg	2.94E-06	0.00E+00	0.00E+00	4.74E-07	4.74E-07	0.00E+00	4.71E-05	0.00E+00
Materials for energy recovery	0.00E+00	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
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	4.15E-02	MJ	4.97E-03	3.93E-05	0.00E+00	3.58E-02	1.39E-03	3.44E-02	6.46E-04	-2.22E-03
Biogenic carbon content of the product	0.00E+00	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
Biogenic carbon content of the associated packaging	2.39E-06	kg of C	2.39E-06	0.00E+00	0.00E+00	0*	0.00E+00	0*	0.00E+00	3.77E-07

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

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ENVIRONMENTAL IMPACTS

The following 3 tables report the environmental impact values referred to the Declared Unit.

	Total Life Cycle		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	1.39E+04	kg CO ₂ eq.	1.47E+03	2.20E+01	7.01E+01	1.20E+04	6.19E+02	1.14E+04	3.15E+02	-5.00E+02
Climate change - fossil fuels	1.36E+04	kg CO ₂ eq.	1.51E+03	2.20E+01	1.40E+01	1.18E+04	6.19E+02	1.11E+04	3.14E+02	-4.87E+02
Climate change - biogenics	2.68E+02	kg CO ₂ eq.	-4.20E+01	0*	5.61E+01	2.52E+02	3.35E-01	2.52E+02	1.36E+00	-1.34E+01
Climate change - land use and land use transformation	5.82E-03	kg CO ₂ eq.	4.98E-03	3.18E-05	0*	5.57E-04	5.57E-04	0.00E+00	2.52E-04	3.04E-05
Ozone depletion	5.12E-04	kg CFC-11 eq.	2.76E-04	2.51E-07	4.73E-07	2.19E-04	1.70E-04	4.88E-05	1.63E-05	-1.02E-04
Acidification (AP)	8.05E+01	mole of H ⁺ eq.	1.34E+01	3.47E-02	7.87E-02	6.54E+01	5.70E+00	5.97E+01	1.61E+00	-4.07E+00
Freshwater eutrophication	4.05E-02	kg P eq.	8.79E-03	8.06E-05	1.68E-05	3.08E-02	3.47E-03	2.73E-02	8.54E-04	-1.64E-03
Marine aquatic eutrophication	9.28E+00	kg of N eq.	1.27E+00	6.65E-03	1.87E-02	7.75E+00	7.73E-01	6.98E+00	2.30E-01	-5.08E-01
Terrestrial eutrophication	1.38E+02	mole of N eq.	1.41E+01	7.30E-02	2.50E-01	1.20E+02	8.44E+00	1.12E+02	2.86E+00	-5.57E+00
Photochemical ozone formation	3.05E+01	kg NMVOC eq.	4.83E+00	2.33E-02	5.28E-02	2.49E+01	2.74E+00	2.21E+01	7.68E-01	-1.92E+00
Depletion of abiotic resources - elements	2.10E+00	kg Sb eq.	1.18E+00	0*	0*	9.19E-01	9.15E-01	3.70E-03	0*	-5.32E-01
Depletion of abiotic resources - fossil fuels	3.40E+05	MJ	4.68E+04	3.84E+02	2.61E+02	2.87E+05	1.36E+04	2.73E+05	6.02E+03	-2.18E+04
Water requirement	2.36E+03	m ³ deprivation worldwide eq.	1.13E+03	7.81E-01	8.05E-01	1.13E+03	2.63E+02	8.64E+02	1.02E+02	-2.27E+02
Emission of fine particles	5.89E-04	incidence of diseases	8.01E-05	3.05E-07	5.48E-07	4.98E-04	3.07E-05	4.67E-04	1.06E-05	-2.16E-05

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Total Life Cycle			Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	1.59E+04	kBq of U235 eq.	8.91E+02	0*	5.40E+00	1.50E+04	4.75E+01	1.49E+04	7.91E+01	-2.07E+01
Ecotoxicity (fresh water)	1.17E+05	CTUe	7.63E+04	6.01E+02	3.28E+02	3.29E+04	1.58E+04	1.71E+04	6.65E+03	-2.24E+03
Human toxicity, carcinogenic effects	2.90E-05	CTUh	2.15E-05	4.04E-09	0*	7.35E-06	5.94E-06	1.41E-06	8.16E-08	-2.68E-06
Human toxicity, non-carcinogenic effects	1.94E-03	CTUh	9.93E-04	0*	0*	9.47E-04	9.13E-04	3.34E-05	2.81E-06	-5.40E-04
Impacts related to land use/soil quality	3.86E+02	-	7.44E+01	8.99E-02	3.15E-01	3.05E+02	2.61E+00	3.02E+02	5.94E+00	7.17E-02
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	6.54E+04	MJ	1.01E+03	0*	2.34E+01	6.41E+04	8.95E+01	6.40E+04	3.09E+02	-7.05E+01
Use of renewable primary energy resources used as raw materials	9.02E+02	MJ	9.02E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+02
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	6.63E+04	MJ	1.91E+03	0*	2.34E+01	6.41E+04	8.95E+01	6.40E+04	3.09E+02	8.37E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	3.39E+05	MJ	4.57E+04	3.84E+02	2.61E+02	2.87E+05	1.32E+04	2.73E+05	6.02E+03	-2.16E+04
Use of non-renewable primary energy resources used as raw materials	1.44E+03	MJ	1.08E+03	0.00E+00	0.00E+00	3.55E+02	3.55E+02	0.00E+00	0.00E+00	-2.00E+02
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	3.40E+05	MJ	4.68E+04	3.84E+02	2.61E+02	2.87E+05	1.36E+04	2.73E+05	6.02E+03	-2.18E+04

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Total Life Cycle			Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	6.05E+01	kg	6.05E+01	0.00E+00	0.00E+00	9.50E-03	9.50E-03	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	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
Use of non-renewable secondary fuels	0.00E+00	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
Net use of fresh water	5.57E+01	m³	2.63E+01	1.82E-02	1.85E-02	2.63E+01	6.12E+00	2.02E+01	3.12E+00	-5.29E+00
Hazardous waste disposed of	6.38E+03	kg	5.73E+03	0*	1.42E+01	4.21E+02	1.07E+02	3.15E+02	2.12E+02	-3.20E+02
Non-hazardous waste disposed of	2.27E+03	kg	2.94E+02	1.95E+00	1.88E+00	1.77E+03	5.43E+01	1.72E+03	1.96E+02	-5.85E+01
Radioactive waste disposed of	6.71E-01	kg	1.99E-01	1.55E-03	7.89E-04	4.48E-01	4.31E-02	4.05E-01	2.21E-02	-4.91E-02
Components for re-use	0.00E+00	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
Materials for recycling	4.95E+02	kg	2.88E+01	0.00E+00	0.00E+00	4.64E+00	4.64E+00	0.00E+00	4.61E+02	0.00E+00
Materials for energy recovery	0.00E+00	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
Exported energy	0.00E+00	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
Total use of primary energy during the life cycle	4.07E+05	MJ	4.87E+04	3.85E+02	2.85E+02	3.51E+05	1.36E+04	3.37E+05	6.33E+03	-2.17E+04
Biogenic carbon content of the product	0.00E+00	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
Biogenic carbon content of the associated packaging	2.35E+01	kg of C	2.35E+01	0.00E+00	0.00E+00	0*	0.00E+00	0*	0.00E+00	3.69E+00

*Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

Product Environmental Profile

UPS TriMOD 10-80kW



Homogeneous family technical data:

Product	Power [W]	Backup time [minutes]	UPS efficiency [%]	Packaging mass [kg]	Product mass [kg]
311275	10000	00:11:00	96%	37.11	194.5
311276	10000	00:21:00	96%	37.11	247.7
311277	10000	00:35:00	96%	37.11	300.9
311278	10000	00:49:00	96%	38.11	366.9
311279	15000	00:13:00	96%	37.11	246.0
311280	15000	00:21:00	96%	37.11	299.2
311281	15000	00:29:00	96%	38.11	366.8
311282	20000	00:09:00	96%	37.11	246.6
311283	20000	00:14:00	96%	37.11	353.0
311284	20000	00:20:00	96%	38.11	367.4
311285	30000	00:08:00	96%	38.11	347.0
1x 311297+3x 311315+1x 311319	10000	00:11:00	96%	37.11	194.5
1x 311297+3x 311315+2x 311319	10000	00:21:00	96%	37.11	247.7
1x 311297+3x 311315+3x 311319	10000	00:35:00	96%	37.11	300.9
1x 311298+3x 311315+4x 311319	10000	00:49:00	96%	38.11	366.9
1x 311299+3x 311316+2x 311319	15000	00:13:00	96%	37.11	246.0
1x 311299+3x 311316+3x 311319	15000	00:21:00	96%	37.11	299.2
1x 311301+3x 311316+4x 311319	15000	00:29:00	96%	38.11	366.8
1x 311299+3x 311317+2x 311319	20000	00:09:00	96%	37.11	246.6
1x 311299+3x 311317+3x 311319	20000	00:14:00	96%	37.11	353.0
1x 311301+3x 311317+4x 311319	20000	00:20:00	96%	38.11	367.4
1x 311304+6x 311316+3x 311319	30000	00:08:00	96%	38.11	347.0

The efficiency values are calculated in accordance with the calculation method defined in PSR-0010-ed2.0-EN-2023-12-08, paragraph 3.5.5.3 (Energy Efficiency Calculation).

For products covered by the PEP other than the Reference product, the environmental impacts of each life cycle phase are obtained by multiplying the Reference Product environmental impacts by the coefficients in the following table.

Product	Manufacturing	Distribution	Installation	Use B2	Use B6	End of life
311275	0.6	0.6	1.0	0.5	1.0	0.5
311276	0.7	0.7	1.0	0.7	1.0	0.7
311277	0.8	0.8	1.0	0.8	1.0	0.8
311278	1.0	1.0	1.0	1.0	1.0	1.0
311279	0.2	0.2	1.0	0.7	2.2	0.7
311280	0.8	0.8	1.0	0.8	2.2	0.8
311281	1.0	1.0	1.0	1.0	2.2	1.0
311282	0.7	0.7	1.0	0.7	2.8	0.7
311283	1.0	1.0	1.0	1.0	2.8	1.0
311284	1.0	1.0	1.0	1.0	2.8	1.0
311285	1.0	1.0	1.0	0.9	4.4	0.9
1x 311297+3x 311315+1x 311319	0.6	0.6	1.0	0.5	1.0	0.5
1x 311297+3x 311315+2x 311319	0.7	0.7	1.0	0.7	1.0	0.7
1x 311297+3x 311315+3x 311319	0.8	0.8	1.0	0.8	1.0	0.8
1x 311298+3x 311315+4x 311319	1.0	1.0	1.0	1.0	1.0	1.0
1x 311299+3x 311316+2x 311319	0.7	0.7	1.0	0.7	2.2	0.7
1x 311299+3x 311316+3x 311319	0.8	0.8	1.0	0.8	2.2	0.8
1x 311301+3x 311316+4x 311319	1.0	1.0	1.0	1.0	2.2	1.0
1x 311299+3x 311317+2x 311319	0.7	0.7	1.0	0.7	2.8	0.7
1x 311299+3x 311317+3x 311319	1.0	1.0	1.0	1.0	2.8	1.0
1x 311301+3x 311317+4x 311319	1.0	1.0	1.0	1.0	2.8	1.0
1x 311304+6x 311316+3x 311319	1.0	1.0	1.0	0.9	4.4	0.9

For configurations other than those listed above, environmental impact data are available upon request.

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Product Environmental Profile

UPS TriMOD 10-80kW



Registration number: LGRP-02335-V01.01-EN	Drafting rules: « PEP-PCR-ed4-EN-2021 09 06 » Supplemented by «PSR-0010-ed2.0-EN-2023 12 08»
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org
Date of issue: 10-2026	Validity period : 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2026	
Internal ☒ External ☐	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2022 or NF E38-500 :2022 The elements of this PEP can be compared with elements from another program if the comparability conditions defined by ISO 14025:2026 are met.	
Document in compliance with ISO 14025 : 2026: «Environmental statements and programmes for products - Environmental product declarations (EPDs)»	



Environmental data in alignment with EN 15804: 2012 + A2 : 2019