

Product Environmental Profile

UPS Trimod High Efficiency



LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites**
 Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions**
 Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.
- Involve the environment in product design and provide informations in compliance with ISO 14025**
 Reduce the environmental impact of products over their whole life cycle.
 Provide our customers with all relevant information (composition, consumption, end of life, etc.).



REFERENCE PRODUCT

Function	<p>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.</p> <p>Declared Unit: 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 3 minutes during power shortages.</p>
Reference Product	<div style="text-align: center;">  </div> <p style="text-align: center;">LG-310431 + 3 x LG-310869 + 4 x LG-310875</p> <p style="text-align: center;">Trimod High Efficiency 10kVA - 10kW - high cabinet 1650x414x628mm - Modular Triphase - On-line double conversion VFI-SS-111 - Single UPS with ByPass - Tecnology of energy storage: lead batteries - Single normal mode - Total mass without packaging: 171 kg</p> <p style="text-align: center;">Correction factor between Declared Unit and Functional Unit: Manufacturing, Distribution, Installation and End of Life phases: 600. 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
LG-310431, LG-310869, LG-310875, LG-310445, LG-310447, LG-310417, LG-310419, LG-310763, LG-310420, LG-310763, LG-311008, LG-310478

Product Environmental Profile

UPS Trimod High Efficiency



■ 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	211,5 kg (all packaging included)
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Product alone weight 170,7 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyamide	1,9 %	Steel	40,5 %	Batteries / Accumulators	25,8 %
ABS	1,1 %	Aluminum	3,9 %	Electronic cards	4,6 %
Polycarbonate	0,2 %	Copper alloys	0,5 %	Cables / Electrical wires	1,8 %
Other plastics	0,3 %	Ferrite	0,1 %		

Packaging (alone) : 40,8 kg					
Polyethylene (LDPE)	0,2 %	Steel	0,8 %	Cardboard	9,5 %
				Wood	8,2 %
				Paper	0,6 %
Total plastics : 7,8 kg	3,7 %	Total metals : 96,9 kg	45,8 %	Total others : 106,8 kg	50,5 %

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

- Product alone (excluding packaging): 9 % by mass
- Packaging only: 45 % by mass



■ MANUFACTURE

This Reference Product comes from a site that has received ISO14001 certification.



■ 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 780 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;
- Fans (2 times);
- Power supply PCBs;
- Batteries.



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:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic cards more than 10 cm² : 9613 g
- lead batteries * : 54000 g
- NiCd batteries : 3 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 73 %.

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) : 3 %
- metal materials (excluding packaging) : 45 %
- other materials (excluding packaging) : 16 %
- packaging (all types of materials) : 9 %



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 in Europe, in compliance with the local current standards.

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: factor 600.
	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 600.
	Installation A5	The end of life of the packaging. Mathematical correlation between Declared Unit and Functional Unit: factor 600.
	Use B1-B7	<ul style="list-style-type: none"> • Product category: UPS with energy storage system - PSR-0010-ed2.0-EN-2023 12 08. • Use scenario: consumption of 32338 kW during the 10 years working life due to an average energy efficiency of 95,2 %. 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, Europe 27 - 2018. Mathematical correlation between Declared Unit and Functional Unit: factor 1000.
	End of life C1-C4	The default end of life scenario maximizing the impacts. Mathematical correlation between Declared Unit and Functional Unit: factor 600.
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 600.	
Software and data-base used	EIME V6 and its CODDE-2023-02 database	

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

Product Environmental Profile

UPS Trimod High Efficiency



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	1.61E+01	kg CO ₂ eq.	1.90E+00	1.39E-02	5.11E-03	1.38E+01	5.68E-01	1.33E+01	3.72E-01	-5.83E-01
Climate change - fossil fuels	1.61E+01	kg CO ₂ eq.	1.86E+00	1.39E-02	5.11E-03	1.38E+01	5.66E-01	1.32E+01	3.72E-01	-5.79E-01
Climate change - biogenics	5.75E-02	kg CO ₂ eq.	3.80E-02	0*	0*	1.93E-02	1.60E-03	1.77E-02	2.66E-04	-3.87E-03
Climate change - land use and land use transformation	9.23E-07	kg CO ₂ eq.	9.06E-07	0*	0*	1.19E-08	1.19E-08	0*	4.64E-09	0.00E+00
Ozone depletion	4.39E-07	kg CFC-11 eq.	2.23E-07	0*	0*	2.13E-07	1.57E-07	5.67E-08	2.25E-09	-2.01E-08
Acidification (AP)	9.33E-02	mole of H ⁺ eq.	1.16E-02	8.77E-05	2.17E-05	8.04E-02	4.75E-03	7.56E-02	1.23E-03	-2.77E-03
Freshwater eutrophication	5.60E-05	kg P eq.	8.22E-06	0*	0*	3.93E-05	2.97E-06	3.63E-05	8.50E-06	-6.71E-07
Marine aquatic eutrophication	1.09E-02	kg of N eq.	1.44E-03	4.11E-05	1.01E-05	9.15E-03	5.62E-04	8.59E-03	2.28E-04	-3.49E-04
Terrestrial eutrophication	1.54E-01	mole of N eq.	1.54E-02	4.51E-04	1.11E-04	1.35E-01	6.05E-03	1.29E-01	2.51E-03	-3.81E-03
Photochemical ozone formation	3.60E-02	kg NMVOC eq.	5.31E-03	1.14E-04	2.80E-05	2.97E-02	2.09E-03	2.76E-02	8.83E-04	-1.41E-03
Depletion of abiotic resources - elements	1.20E-03	kg Sb eq.	6.25E-04	0*	0*	5.73E-04	5.72E-04	9.60E-07	2.48E-07	-3.19E-05
Depletion of abiotic resources - fossil fuels	4.46E+02	MJ	7.28E+01	1.93E-01	4.77E-02	3.49E+02	1.16E+01	3.38E+02	2.41E+01	-3.82E+01
Water requirement	2.20E+00	m ³ deprivation worldwide eq.	1.10E+00	0*	0*	9.68E-01	4.99E-01	4.69E-01	1.34E-01	-2.30E-01
Emission of fine particles	6.87E-07	incidence of diseases	6.73E-08	7.14E-10	1.76E-10	6.12E-07	2.53E-08	5.87E-07	6.36E-09	-1.68E-08

*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

Product Environmental Profile

UPS Trimod High Efficiency



	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	3.50E+01	kBq of U235 eq.	8.66E+00	0*	0*	2.63E+01	6.63E+00	1.97E+01	4.04E-03	-4.24E-01
Ecotoxicity (fresh water)	2.40E+02	CTUe	7.22E+01	0*	0*	1.67E+02	2.38E+01	1.43E+02	1.05E+00	-1.10E+01
Human toxicity, carcinogenic effects	1.02E-04	CTUh	1.02E-04	0*	0*	1.26E-08	1.11E-08	0*	0*	-2.47E-08
Human toxicity, non-carcinogenic effects	1.04E-06	CTUh	5.04E-07	0*	0*	5.32E-07	4.71E-07	6.13E-08	8.08E-09	-1.74E-08
Impacts related to land use/soil quality	3.33E-01	-	3.66E-02	0*	0*	2.71E-01	7.41E-03	2.64E-01	2.52E-02	3.57E-07
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	6.54E+01	MJ	4.38E-01	0*	0*	6.50E+01	1.44E-01	6.48E+01	9.53E-03	-9.86E-02
Use of renewable primary energy resources used as raw materials	9.32E-01	MJ	9.32E-01	0*	0*	0*	0*	0*	0*	5.42E-04
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	6.64E+01	MJ	1.37E+00	0*	0*	6.50E+01	1.44E-01	6.48E+01	9.53E-03	-9.80E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	4.45E+02	MJ	7.19E+01	1.93E-01	4.77E-02	3.49E+02	1.14E+01	3.38E+02	2.41E+01	-3.82E+01
Use of non-renewable primary energy resources used as raw materials	1.20E+00	MJ	9.06E-01	0*	0*	2.91E-01	2.91E-01	0*	0*	-3.19E-02
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.46E+02	MJ	7.28E+01	1.93E-01	4.77E-02	3.49E+02	1.16E+01	3.38E+02	2.41E+01	-3.82E+01

*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

Product Environmental Profile

UPS Trimod High Efficiency



	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	6.70E-02	kg	6.69E-02	0*	0*	4.84E-05	4.84E-05	0*	0*	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Net use of fresh water	5.13E-02	m ³	2.56E-02	0*	0*	2.25E-02	1.16E-02	1.09E-02	3.13E-03	-5.37E-03
Hazardous waste disposed of	6.51E+00	kg	3.57E+00	0*	0*	2.78E+00	2.53E+00	2.48E-01	1.71E-01	-6.55E-01
Non-hazardous waste disposed of	2.84E+00	kg	7.65E-01	4.86E-04	6.93E-04	2.05E+00	1.45E-01	1.91E+00	1.88E-02	-2.42E-01
Radioactive waste disposed of	2.13E-03	kg	1.15E-03	3.46E-07	0*	9.74E-04	5.75E-04	3.99E-04	7.65E-06	-1.91E-04
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Materials for recycling	1.65E-01	kg	3.97E-02	0*	0*	0*	0*	0*	1.25E-01	0.00E+00
Materials for energy recovery	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Exported energy	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Total use of primary energy during the life cycle	5.13E+02	MJ	7.42E+01	1.94E-01	0*	4.14E+02	1.18E+01	4.03E+02	2.41E+01	-3.83E+01
Biogenic carbon content of the product	0.00E+00	kg of C	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Biogenic carbon content of the associated packaging	2.14E-02	kg of C	2.14E-02	0*	0*	0*	0*	0*	0*	0.00E+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 High Efficiency



ENVIRONMENTAL IMPACTS

The following 3 tables report the environmental impact values referred to the Declared Unit (LG-310431 + 3 x LG-310869 + 4 x LG-310875).

	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	1.50E+04	kg CO ₂ eq.	1.14E+03	8.32E+00	3.07E+00	1.36E+04	3.41E+02	1.33E+04	2.23E+02	-3.50E+02
Climate change - fossil fuels	1.49E+04	kg CO ₂ eq.	1.11E+03	8.32E+00	3.07E+00	1.36E+04	3.40E+02	1.32E+04	2.23E+02	-3.47E+02
Climate change - biogenics	4.16E+01	kg CO ₂ eq.	2.28E+01	0*	0*	1.86E+01	9.57E-01	1.77E+01	1.59E-01	-2.32E+00
Climate change - land use and land use transformation	5.54E-04	kg CO ₂ eq.	5.44E-04	0*	0*	7.12E-06	7.12E-06	0*	2.79E-06	0.00E+00
Ozone depletion	2.86E-04	kg CFC-11 eq.	1.34E-04	0*	0*	1.51E-04	9.40E-05	5.67E-05	1.35E-06	-1.21E-05
Acidification (AP)	8.62E+01	mole of H ⁺ eq.	6.96E+00	5.26E-02	1.30E-02	7.85E+01	2.85E+00	7.56E+01	7.36E-01	-1.66E+00
Freshwater eutrophication	4.81E-02	kg P eq.	4.93E-03	0*	0*	3.81E-02	1.78E-03	3.63E-02	5.10E-03	-4.03E-04
Marine aquatic eutrophication	9.96E+00	kg of N eq.	8.61E-01	2.47E-02	6.07E-03	8.93E+00	3.37E-01	8.59E+00	1.37E-01	-2.09E-01
Terrestrial eutrophication	1.44E+02	mole of N eq.	9.22E+00	2.71E-01	6.69E-02	1.33E+02	3.63E+00	1.29E+02	1.51E+00	-2.29E+00
Photochemical ozone formation	3.26E+01	kg NMVOC eq.	3.19E+00	6.83E-02	1.68E-02	2.88E+01	1.25E+00	2.76E+01	5.30E-01	-8.49E-01
Depletion of abiotic resources - elements	7.19E-01	kg Sb eq.	3.75E-01	0*	0*	3.44E-01	3.43E-01	9.60E-04	1.49E-04	-1.91E-02
Depletion of abiotic resources - fossil fuels	4.03E+05	MJ	4.37E+04	1.16E+02	0*	3.45E+05	6.99E+03	3.38E+05	1.45E+04	-2.29E+04
Water requirement	1.51E+03	m ³ deprivation worldwide eq.	6.61E+02	0*	0*	7.68E+02	2.99E+02	4.69E+02	8.06E+01	-1.38E+02
Emission of fine particles	6.47E-04	incidence of diseases	4.04E-05	4.28E-07	1.06E-07	6.02E-04	1.52E-05	5.87E-04	3.81E-06	-1.01E-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
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Product Environmental Profile

UPS Trimod High Efficiency



	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	2.89E+04	kBq of U235 eq.	5.20E+03	0*	0*	2.37E+04	3.98E+03	1.97E+04	0*	-2.55E+02
Ecotoxicity (fresh water)	2.01E+05	CTUe	4.33E+04	0*	0*	1.57E+05	1.43E+04	1.43E+05	6.29E+02	-6.60E+03
Human toxicity, carcinogenic effects	6.14E-02	CTUh	6.14E-02	0*	0*	8.20E-06	6.66E-06	0*	0*	-1.48E-05
Human toxicity, non-carcinogenic effects	6.51E-04	CTUh	3.03E-04	0*	0*	3.44E-04	2.82E-04	6.13E-05	4.85E-06	-1.05E-05
Impacts related to land use/soil quality	3.05E+02	-	2.19E+01	0*	0*	2.68E+02	4.45E+00	2.64E+02	1.51E+01	2.14E-04
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	6.52E+04	MJ	2.63E+02	0*	0*	6.49E+04	8.66E+01	6.48E+04	0*	-5.91E+01
Use of renewable primary energy resources used as raw materials	5.59E+02	MJ	5.59E+02	0*	0*	0*	0*	0*	0*	3.25E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	6.58E+04	MJ	8.22E+02	0*	0*	6.49E+04	8.66E+01	6.48E+04	0*	-5.88E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	4.02E+05	MJ	4.32E+04	1.16E+02	0*	3.44E+05	6.81E+03	3.38E+05	1.45E+04	-2.29E+04
Use of non-renewable primary energy resources used as raw materials	7.18E+02	MJ	5.44E+02	0*	0*	1.74E+02	1.74E+02	0*	0*	-1.91E+01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.03E+05	MJ	4.37E+04	1.16E+02	0*	3.45E+05	6.99E+03	3.38E+05	1.45E+04	-2.29E+04

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

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Product Environmental Profile

UPS Trimod High Efficiency



	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	4.02E+01	kg	4.02E+01	0*	0*	2.91E-02	2.91E-02	0*	0*	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Net use of fresh water	3.52E+01	m ³	1.54E+01	0*	0*	1.79E+01	6.97E+00	1.09E+01	1.88E+00	-3.22E+00
Hazardous waste disposed of	4.01E+03	kg	2.14E+03	0*	0*	1.76E+03	1.52E+03	2.48E+02	1.02E+02	-3.93E+02
Non-hazardous waste disposed of	2.46E+03	kg	4.59E+02	2.92E-01	4.16E-01	1.99E+03	8.70E+01	1.91E+03	1.13E+01	-1.45E+02
Radioactive waste disposed of	1.44E+00	kg	6.88E-01	2.08E-04	0*	7.44E-01	3.45E-01	3.99E-01	4.59E-03	-1.15E-01
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Materials for recycling	9.90E+01	kg	2.38E+01	0*	0*	0*	0*	0*	7.51E+01	0.00E+00
Materials for energy recovery	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Exported energy	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Total use of primary energy during the life cycle	4.69E+05	MJ	4.45E+04	1.16E+02	0*	4.10E+05	7.07E+03	4.03E+05	1.45E+04	-2.30E+04
Biogenic carbon content of the product	0.00E+00	kg of C	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Biogenic carbon content of the associated packaging	1.29E+01	kg of C	1.29E+01	0*	0*	0*	0*	0*	0*	0.00E+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 High Efficiency



Homogeneous family technical data:

Product	Power [W]	Backup time [minutes]	UPS efficiency [%]	Packaging mass [kg]	Product mass [kg]
Reference Product	10000	3	95.2	40.83	170.7
LG-310445	15000	3	95.2	41.11	219.5
LG-310447	20000	3	95.2	41.11	219.5
LG-310417	30000	3	95.2	49.05	313
LG-310419 + LG-310763	40000	3	95.2	41.94	451
LG-310420 + 2 LG-310763	60000	3	95.2	50.38	803.5
LG-311008 + LG-310478	80000	3	95.2	50.21	1012

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	Maintenance	Use	End of life
Reference Product	1.00	1.00	1.00	1.00	1.00	1.00
LG-310445	1.29	1.29	1.01	2.57	1.39	1.29
LG-310447	1.29	1.29	1.01	2.57	1.85	1.29
LG-310417	1.83	1.83	1.20	3.67	2.78	1.83
LG-310419 + LG-310763	2.64	2.64	1.03	5.28	3.71	2.64
LG-310420 + 2 LG-310763	4.71	4.71	1.23	9.41	5.56	4.71
LG-311008 + LG-310478	5.93	5.93	1.23	11.86	7.42	5.93

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Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 02-2024	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019	
The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	

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