

Product Environmental Profile

UPS
HPi 33 EVO - online



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	Functional Unit definition: To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 years. Declared Unit definition: To ensure the supply of power to remain within specified characteristics to equipment with load of 30000 watts for a RSL of 15 years.
Reference Product	 311402 HPi 33 EVO online - 30kW - Cabinet 660X250X590 mm - Triphase UPS On-line double conversion VFI-SS-111 - Conventional UPS with Bypass, Parallelable up to 4 units Single normal mode - Total mass without packaging: 42 kg Correction factor between Declared Unit and Functional Unit: 4500

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:

311402
311400, 311401, 311403

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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	49,9 kg (all packaging included)
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Product alone weight : 41,7 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PBT	3,0 %	Steel	35,0 %	Electronic cards	25,1 %
Polyamide	2,5 %	Aluminum	9,1 %	Cables / Electrical wires	4,6 %
Nitrile rubber	1,7 %	Copper alloys	1,7 %	LCD screen	0,4 %
PET	0,1 %				

Packaging (alone) : 8,2 kg					
Polyethylene (Expanded PE)	1,0 %	Steel	< 0,1 %	Wood	12,0 %
				Cardboard	3,7 %
				Paper	0,1 %
Total plastics : 4,1 kg	8,3 %	Total metals : 22,9 kg	45,8 %	Total others : 22,9 kg	45,9 %

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

- Product alone (excluding packaging): 9 % by mass
- Packaging only: 19 % by mass



■ MANUFACTURE

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



■ 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 1000 km by road plus 19000 km by boat from our warehouse to the local point of distribution all around the world.

Packaging is compliant with applicable regulation.



■ 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 15 years:

- DC and AC capacitors of filtering and related PCBs (2 times);
- Fans (3 times);
- Power supply PCBs (2 times).

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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. In Europe 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: 12118 g
- LCD screen: 200 g

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 80 %. 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) : 7 %
- metal materials (excluding packaging) : 45 %
- other materials (excluding packaging) : 17 %
- packaging (all types of materials) : 11 %



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. The datasets collected in this PEP are representative of the year 2024.

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 4500.
	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 4500.
	Installation A5	The end of life of the packaging. Mathematical correlation between Declared Unit and Functional Unit: factor 4500.
	Use B1-B7	• Product category: UPS without energy storage system - PSR-0010-ed2.0-EN-2023 12 08. • Use scenario: consumption of 137970 kW during the 15 years working life due to an average energy efficiency of 92,5 %. 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; production mix; Low voltage ; Global, GLO - 2020. Mathematical correlation between Declared Unit and Functional Unit: factor 4500.
	End of life C1-C4	The default end of life scenario maximizing the impacts. Mathematical correlation between Declared Unit and Functional Unit: factor 4500.
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 4500.
Software and data-base used		EIME V6 and its CODDE-2024-06-11 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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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	2.00E+01	kg CO ₂ eq.	2.27E-01	2.78E-03	7.17E-04	1.97E+01	1.96E+01	7.16E-02	1.20E-02	-1.96E-02
Climate change - fossil fuels	1.99E+01	kg CO ₂ eq.	2.26E-01	2.78E-03	0*	1.97E+01	1.96E+01	7.14E-02	1.20E-02	-1.93E-02
Climate change - biogenics	1.91E-02	kg CO ₂ eq.	7.26E-04	0.00E+00	0.00E+00	1.57E-02	1.55E-02	1.83E-04	2.13E-05	-2.76E-04
Climate change - land use and land use transformation	1.69E-08	kg CO ₂ eq.	1.65E-08	0.00E+00	2.39E-11	1.18E-10	0.00E+00	1.18E-10	3.18E-10	0.00E+00
Ozone depletion	1.21E-07	kg CFC-11 eq.	2.07E-08	0*	4.44E-06	1.00E-07	9.25E-08	7.95E-09	1.42E-10	-1.43E-09
Acidification (AP)	1.25E-01	mole of H ⁺ eq.	1.65E-03	1.12E-04	0*	1.23E-01	1.22E-01	5.04E-04	3.88E-05	-1.24E-04
Freshwater eutrophication	1.54E-05	kg P eq.	4.81E-07	0*	0*	1.43E-05	1.42E-05	9.97E-08	5.99E-07	-4.35E-08
Marine aquatic eutrophication	1.40E-02	kg of N eq.	1.85E-04	2.57E-05	0*	1.38E-02	1.37E-02	4.95E-05	7.45E-06	-1.25E-05
Terrestrial eutrophication	1.68E-01	mole of N eq.	1.87E-03	2.82E-04	0*	1.65E-01	1.65E-01	5.28E-04	8.51E-05	-1.37E-04
Photochemical ozone formation	4.65E-02	kg NMVOC eq.	6.31E-04	7.26E-05	0*	4.57E-02	4.56E-02	1.76E-04	2.75E-05	-4.98E-05
Depletion of abiotic resources - elements	5.31E-05	kg Sb eq.	4.20E-05	0*	0*	1.11E-05	2.71E-06	8.40E-06	1.98E-08	-1.91E-06
Depletion of abiotic resources - fossil fuels	3.61E+02	MJ	4.04E+00	0*	0*	3.56E+02	3.56E+02	8.89E-01	6.57E-01	-1.09E+00
Water requirement	1.17E+00	m ³ deprivation worldwide eq.	6.13E-02	0*	0*	1.10E+00	1.08E+00	1.94E-02	4.10E-03	-7.82E-03
Emission of fine particles	7.54E-07	incidence of diseases	9.43E-09	5.82E-10	0*	7.44E-07	7.41E-07	2.78E-09	2.09E-10	-8.41E-10

*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	1.00E+01	kBq of U235 eq.	8.64E-01	0*	0*	9.16E+00	7.75E+00	1.40E+00	0*	-2.95E-02
Ecotoxicity (fresh water)	3.86E+01	CTUe	2.16E+00	0*	1.19E-13	3.64E+01	3.52E+01	1.25E+00	4.23E-02	-5.65E-02
Human toxicity, carcinogenic effects	3.69E-05	CTUh	9.33E-06	0*	0*	2.76E-05	0*	2.76E-05	0*	-3.53E-11
Human toxicity, non-carcinogenic effects	9.53E-08	CTUh	1.13E-08	0*	0*	8.39E-08	8.23E-08	1.57E-09	1.31E-10	-5.07E-10
Impacts related to land use/soil quality	2.08E-01	-	2.62E-03	0.00E+00	0*	2.04E-01	2.03E-01	3.58E-04	1.82E-03	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	4.48E+01	MJ	1.05E-01	0*	0*	4.47E+01	4.46E+01	3.25E-02	0*	-7.00E-03
Use of renewable primary energy resources used as raw materials	3.48E-02	MJ	3.48E-02	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-06
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.48E+01	MJ	1.40E-01	0*	0*	4.47E+01	4.46E+01	3.25E-02	0*	-6.99E-03
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	3.61E+02	MJ	3.97E+00	0*	0*	3.56E+02	3.56E+02	8.66E-01	6.57E-01	-1.09E+00
Use of non-renewable primary energy resources used as raw materials	8.40E-02	MJ	6.17E-02	0.00E+00	1.29E-02	2.23E-02	0.00E+00	2.23E-02	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	3.61E+02	MJ	4.04E+00	0*	0*	3.56E+02	3.56E+02	8.89E-01	6.57E-01	-1.09E+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

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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	1.38E-03	kg	1.38E-03	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	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	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	2.72E-02	m³	1.43E-03	0*	0*	2.56E-02	2.52E-02	4.51E-04	9.57E-05	-1.82E-04
Hazardous waste disposed of	1.33E+00	kg	6.64E-01	0.00E+00	9.55E-05	6.61E-01	4.92E-01	1.68E-01	6.79E-03	-4.13E-02
Non-hazardous waste disposed of	3.45E+00	kg	9.38E-02	0*	0*	3.36E+00	3.34E+00	1.89E-02	1.18E-03	-1.74E-02
Radioactive waste disposed of	4.71E-04	kg	5.66E-05	5.68E-08	0*	4.14E-04	4.06E-04	7.50E-06	2.29E-07	-1.37E-05
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	5.03E-03	kg	1.22E-03	0.00E+00	0.00E+00	7.68E-06	0.00E+00	7.68E-06	3.80E-03	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	1.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	4.06E+02	MJ	4.18E+00	0*	0*	4.01E+02	4.00E+02	9.21E-01	6.58E-01	-1.10E+00
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	2.71E-04	kg of C	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-07

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

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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	8.98E+04	kg CO ₂ eq.	1.02E+03	1.25E+01	1.52E+01	8.87E+04	8.84E+04	3.22E+02	5.42E+01	-8.80E+01
Climate change - fossil fuels	8.98E+04	kg CO ₂ eq.	1.02E+03	1.25E+01	0*	8.87E+04	8.83E+04	3.21E+02	5.41E+01	-8.68E+01
Climate change - biogenics	8.60E+01	kg CO ₂ eq.	3.27E+00	0.00E+00	1.20E+01	7.06E+01	6.98E+01	8.21E-01	9.58E-02	-1.24E+00
Climate change - land use and land use transformation	7.61E-05	kg CO ₂ eq.	7.42E-05	0.00E+00	0.00E+00	5.31E-07	0.00E+00	5.31E-07	1.43E-06	0.00E+00
Ozone depletion	5.46E-04	kg CFC-11 eq.	9.32E-05	0*	1.07E-07	4.52E-04	4.16E-04	3.58E-05	6.39E-07	-6.42E-06
Acidification (AP)	5.61E+02	mole of H ⁺ eq.	7.40E+00	5.06E-01	0*	5.53E+02	5.51E+02	2.27E+00	1.75E-01	-5.56E-01
Freshwater eutrophication	6.92E-02	kg P eq.	2.17E-03	0*	0*	6.43E-02	6.38E-02	4.49E-04	2.70E-03	-1.96E-04
Marine aquatic eutrophication	6.31E+01	kg of N eq.	8.32E-01	1.16E-01	0*	6.21E+01	6.19E+01	2.23E-01	3.35E-02	-5.61E-02
Terrestrial eutrophication	7.54E+02	mole of N eq.	8.43E+00	1.27E+00	0*	7.44E+02	7.42E+02	2.38E+00	3.83E-01	-6.15E-01
Photochemical ozone formation	2.09E+02	kg NMVOC eq.	2.84E+00	3.27E-01	0*	2.06E+02	2.05E+02	7.94E-01	1.24E-01	-2.24E-01
Depletion of abiotic resources - elements	2.39E-01	kg Sb eq.	1.89E-01	0*	0*	5.00E-02	1.22E-02	3.78E-02	8.90E-05	-8.61E-03
Depletion of abiotic resources - fossil fuels	1.63E+06	MJ	1.82E+04	0*	0*	1.60E+06	1.60E+06	4.00E+03	2.96E+03	-4.92E+03
Water requirement	5.25E+03	m ³ deprivation worldwide eq.	2.76E+02	0*	0*	4.95E+03	4.87E+03	8.72E+01	1.84E+01	-3.52E+01
Emission of fine particles	3.39E-03	incidence of diseases	4.24E-05	2.62E-06	0*	3.35E-03	3.34E-03	1.25E-05	9.40E-07	-3.78E-06

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

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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	4.51E+04	kBq of U235 eq.	3.89E+03	0*	0*	4.12E+04	3.49E+04	6.31E+03	0*	-1.33E+02
Ecotoxicity (fresh water)	1.74E+05	CTUe	9.72E+03	0*	7.26E+01	1.64E+05	1.58E+05	5.63E+03	1.91E+02	-2.54E+02
Human toxicity, carcinogenic effects	1.66E-01	CTUh	4.20E-02	0*	0*	1.24E-01	0*	1.24E-01	0*	-1.59E-07
Human toxicity, non-carcinogenic effects	4.29E-04	CTUh	5.08E-05	0*	0*	3.78E-04	3.70E-04	7.08E-06	5.90E-07	-2.28E-06
Impacts related to land use/soil quality	9.37E+02	-	1.18E+01	0.00E+00	0*	9.17E+02	9.15E+02	1.61E+00	8.20E+00	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	2.01E+05	MJ	4.74E+02	0*	0*	2.01E+05	2.01E+05	1.46E+02	0*	-3.15E+01
Use of renewable primary energy resources used as raw materials	1.57E+02	MJ	1.57E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-02
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.02E+05	MJ	6.31E+02	0*	0*	2.01E+05	2.01E+05	1.46E+02	0*	-3.15E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.63E+06	MJ	1.79E+04	0*	0*	1.60E+06	1.60E+06	3.90E+03	2.96E+03	-4.92E+03
Use of non-renewable primary energy resources used as raw materials	3.78E+02	MJ	2.78E+02	0.00E+00	0.00E+00	1.00E+02	0.00E+00	1.00E+02	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.63E+06	MJ	1.82E+04	0*	0*	1.60E+06	1.60E+06	4.00E+03	2.96E+03	-4.92E+03

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

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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	6.21E+00	kg	6.21E+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	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	1.22E+02	m³	6.42E+00	0*	0*	1.15E+02	1.13E+02	2.03E+00	4.30E-01	-8.19E-01
Hazardous waste disposed of	6.00E+03	kg	2.99E+03	0.00E+00	3.04E+00	2.97E+03	2.22E+03	7.57E+02	3.06E+01	-1.86E+02
Non-hazardous waste disposed of	1.55E+04	kg	4.22E+02	0*	0*	1.51E+04	1.50E+04	8.49E+01	5.31E+00	-7.82E+01
Radioactive waste disposed of	2.12E+00	kg	2.55E-01	2.56E-04	0*	1.86E+00	1.83E+00	3.38E-02	1.03E-03	-6.18E-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	2.26E+01	kg	5.51E+00	0.00E+00	0.00E+00	3.46E-02	0.00E+00	3.46E-02	1.71E+01	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	1.83E+06	MJ	1.88E+04	0*	0*	1.81E+06	1.80E+06	4.15E+03	2.96E+03	-4.95E+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	1.22E+00	kg of C	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-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

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
HPI 33 EVO - online



Homogeneous family technical data:

Product	Power [W]	UPS efficiency [%]	Packaging mass [kg]	Product mass [kg]
311400	10000	92.5	8.2	34.7
311401	20000	92.5	8.2	39.7
311402	30000	92.5	8.2	41.7
311403	40000	92.5	8.2	45.7

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
311400	0.8	0.8	1.0	0.4	0.3	0.8
311401	0.9	0.9	1.0	0.9	0.6	0.9
311402	1.0	1.0	1.0	1.0	1.0	1.0
311403	1.1	1.1	1.0	1.1	1.3	1.1

Registration number: LGRP-02157-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: 04-2025	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
Internal ☒ External ☐	
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