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Your usual Sales office www.legrand.com

Product Environmental Profile

UPS ARCHIMOD HE





■ 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

Reference Product

Function	To protect the load up to 60 kW against input power failure during 15 years and provide a backup time of 5 minutes in case of a power outage.



LG-310461 + 9 x LG-310873 + 6 x LG-310855

Modular triphase UPS ARCHIMOD 60 kVA - 60 kW - cabinet 2080 x 570 x 912 mm.

Technology of energy storage system: lead acid batteries. Mass without energy storage system = 402,3 kg. Mass of energy storage system = 226,8 kg (without packaging). Location of the principal manufacturing plants: Italy. Power factor >0.99. Input Dependency Characteristics according to IEC 62040-3: VFI, Monomode. Redundancy: N+1.

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: the total ARCHIMOD HE offer, as presented in all relevant catalogues (list available on request at the Customer Service).



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■ CONSTITUENT MATERIALS I

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 and its delegated directive 2015/863/EU.

Total weight of	
Reference Product	629,1 Kg (all packaging included)

Plastics as % of weight		Metals as % of weight		Others as % of weight				
Polyamide	1,8 %	Steel	eel 35,5 %		36,0 %			
PVC	0,3 %	Aluminium	6,0 %	Electronic cardboards	4,9 %			
Polycarbonate	0,2 %	Copper alloys	0,5 %	Cables / electric wires	0,6 %			
ABS	0,2 %							
Other plastics	0,1 %							
Packaging								
Polyethylene (LDPE)	0,4 %			Paper / cardboard	7,2 %			
				Wood	6,3 %			
Total plastics	3,0 % Total metals 42		42,0 %	Total others	55,0 %			

Estimated recycled material content: 42 % by mass.



■ MANUFACTURE ■

This Reference Product comes from sites that have 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. At their end of life, its recyclability rate is 94 % (in % of packaging weight).



INSTALLATION I

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



USE I

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 PCB (2 times);
- Fans (3 times);
- Power supply PCB (2 times);
- Batteries (2 times).



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■ END OF LIFE I

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: 31054 g
- lead acid batteries: 226800 g

• Extended producer responsability:

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 78 %. 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)
 metal materials (excluding packaging)
 other materials (excluding packaging)
 2 %
 other materials (excluding packaging)
 21 %
 packaging (all types of materials)
 13 %



■ 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:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.						
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.						
Installation	The end of life of the packaging.						
Use	 Product category: «PSR-0010-ed1.1-EN-2015 10 16 - UPS» Use scenario: consumption of 266578 kW during the 15 years working life due to an average energy efficency of 93,2 %. The substitution of the maintenance components as indicated in the Use paragraph. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix, Europe 27 - 2008. 						
End of life	The default end of life scenario, as described in the in force PCR, maximizing the impacts.						
Software and database used	EIME V5 and its database «CODDE-2018-11»						



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	.
Global warming	1.35E+05	kgCO ₂ eq.	2.87E+03	2%	2.44E+01	< 1%	5.12E+00	< 1%	1.33E+05	98%	5.06E+01	< 1%
Ozone depletion	9.46E-03	kgCFC-11 eq.	4.23E-04	4%	4.95E-08	< 1%	3.18E-08	< 1%	9.04E-03	96%	9.66E-07	< 1%
Acidification of soils and water	5.56E+02	kgSO ₂ eq.	7.14E+00	1%	1.10E-01	< 1%	2.39E-02	< 1%	5.49E+02	99%	2.00E-01	< 1%
Water eutrophication	3.62E+01	kg(PO ₄)³- eq.	1.79E+00	5%	2.52E-02	< 1%	1.84E-02	< 1%	3.41E+01	94%	2.66E-01	< 1%
Photochemical ozone formation	3.09E+01	kgC ₂ H ₄ eq.	6.95E-01	2%	7.80E-03	< 1%	1.70E-03	< 1%	3.02E+01	98%	1.54E-02	< 1%
Depletion of abiotic resources - elements	4.17E+00	kgSb eq.	1.52E+00	37%	9.77E-07	< 1%	2.23E-07	< 1%	2.64E+00	63%	2.88E-06	< 1%
Total use of primary energy	2.72E+06	МЛ	8.54E+04	3%	3.45E+02	< 1%	7.02E+01	< 1%	2.64E+06	97%	5.79E+02	< 1%
Net use of fresh water	4.74E+05	m³	1.60E+02	< 1%	2.19E-03	< 1%	1.35E-03	< 1%	4.74E+05	100%	3.39E-02	< 1%
Depletion of abiotic resources - fossil fuels	1.53E+06	МЛ	2.86E+04	2%	3.43E+02	< 1%	6.85E+01	< 1%	1.50E+06	98%	5.35E+02	< 1%
Water pollution	6.74E+06	m³	5.40E+05	8%	4.02E+03	< 1%	7.97E+02	< 1%	6.19E+06	92%	6.22E+03	< 1%
Air pollution	8.00E+06	m³	9.85E+05	12%	1.00E+03	< 1%	4.76E+02	< 1%	7.01E+06	88%	4.94E+03	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

For the products covered by the PEP other than the Reference Product, the environmental impacts of the Manufacturing, Distribution, Intallation and End of Life are directly proportional to the accumulators mass; the impacts of the Use phase are directly proportional to the dissipated power.

Registration N°: LGRP-00880-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 Supplemented by PSR-0010-ed1.1-2015 10					
Verifier accreditation N°: VH02	Information and reference documents : ww	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 07-2020	Validity period: 5 years	Validity period: 5 years				
Independent verification of the declaration and data, in collinernal \square External \square						
The PCR review was conducted by a panel of experts chai	PEP					
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared wit	PASS					
Document in compliance with ISO 14025 : 2010: «Environn declarations»	PORT _®					
Environmental data in alignment with EN 15804 : 2012 + A						