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Product Environmental Profile

Metal charging station modes 2 and 3





■ 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	Allow to charge safely all electric and hybrid vehicles (equiped with single and three phases chargers / delievred in Mode 2 or Mode 3). The metallic charging station 22 KVA IP55 - IK10 be suitable for living places like box, closed and collective parkings, workplaces (sheltered outdoor recommended installation), over a period of 10 years. It's equiped with an 2P+E plug (for Mode 2) and with an (T2S) 3P+N+E + pilot plug (for Mode 3) and is compliant with IEC 61851-1 and IEC 61851-22.					
Reference Product	logand a					
	Cat.No 059015					
	Metal charging station modes 2 and 3 - triphased - Modes 2 and 3 - 22 kW - For charging 2 vehicles simultaneously					

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:

059000, 059001, 059002, 059003, 059004



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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.

Total weight of Reference Product	26.419.g.(s	with unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PA	5.1%	Steel	57.1%	3	5.6%	
PA	9.8%	Copper alloys	2.3%	PWB	2.9%	
other plastic	1.0%	Zamakl	1.2%	Various electronics components	0.3%	
PE	0.6%					
ABS	0.5%					
PS	0.4%					
PU	0.4%					
PC	0.3%	Various metals	0.3%			
		Packaging as % of weight				
				Wood	16.6%	
				Paper	5.0%	
Total plastics	8.7%	Total metals	60.9%	Total other and packaging	30.4%	

Estimated recycled material content: 21 by mass.



■ MANUFACTURE ■

This Reference Product comes from sites that have received ISO 14001 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 market in Europe.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 96% (in % of the mass of the packaging).



INSTALLATION

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



USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.





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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.

• Extended productor 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 93%. This value is based on data collected from a technological channel using industrial procedures. It does not prevalidate the effective use of this channel for end-of-life electrical and eletronic products.

Separated into:

- plastic materials (excluding packaging)
- metal materials (excluding packaging)
- other materials (excluding packaging)
- packaging (all types of materials)
21 %



■ ENVIRONMENTAL IMPACTS I

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: active product Use scenario: for a 10 years working life, 51W at 13% of rated load in Active phase and 15W at 87% of rated load active standby, in Mode 3 active at maximum amperage. This modelling duration does not constitute a minimum durabilty requirement Energy model: Electricity Mix; Europe 27, year 2008 						
End of life	The default end of life scenario maximizing the environmental impacts.						
Software and database used	EIME & database CODDE-2015-04»						





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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Li	fe cycle	Raw material ai manufactu		Distributio	on	Installation	า	Use		End of life	
Global warming	1.31E+03	kg~CO ₂ eq.	5.28E+02	40%	1.03E+00	< 1%	3.05E-01	< 1%	7.82E+02	60%	1.40E+00	< 1%
Ozone depletion	2.04E-04	kg~CFC-11 eq.	1.42E-05	7%	2.08E-09	< 1%	1.02E-09	< 1%	1.90E-04	93%	1.58E-08	< 1%
Acidification of soils and water	6.61E+00	kgSO2 eq.	6.80E-01	10%	4.61E-03	< 1%	1.40E-03	< 1%	5.92E+00	90%	5.76E-03	< 1%
Water eutrophication	3.91E-01	kg~PO ₄ ³-eq.	1.59E-01	41%	1.06E-03	< 1%	6.70E-04	< 1%	2.22E-01	57%	8.91E-03	2%
Photochemical ozone formation	3.18E-01	kg~C ₂ H ₄ eq.	3.78E-02	12%	3.27E-04	< 1%	9.96E-05	< 1%	2.80E-01	88%	4.36E-04	< 1%
Depletion of abiotic resources - elements	3.41E-02	kgSb eq.	3.41E-02	100%	4.10E-08	< 1%	1.25E-08	< 1%	3.56E-05	< 1%	6.67E-08	< 1%
Total use of primary energy	2.51E+04	МЛ	9.19E+03	37%	1.45E+01	< 1%	4.28E+00	< 1%	1.58E+04	63%	1.69E+01	< 1%
Net use of fresh water	3.37E+00	m³	1.33E+00	40%	9.18E-05	< 1%	4.59E-05	< 1%	2.04E+00	60%	5.82E-04	< 1%
Depletion of abiotic resources - fossil fuels	1.43E+04	МЈ	6.20E+03	43%	1.44E+01	< 1%	4.23E+00	< 1%	8.06E+03	56%	1.62E+01	< 1%
Water pollution	5.72E+04	m³	2.40E+04	42%	1.69E+02	< 1%	4.93E+01	< 1%	3.28E+04	57%	1.89E+02	< 1%
Air pollution	6.52E+04	m³	3.15E+04	48%	4.20E+01	< 1%	1.96E+01	< 1%	3.35E+04	51%	1.01E+02	< 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.

 $For products \ covered \ by \ the \ PEP \ other \ than \ the \ Reference \ product, the \ environmental \ impacts \ of \ each \ phase \ of \ the \ lifecycle \ are \ calculated \ with$

To determine the environmental impact of a product covered by the PEP other than the cat.number, the following rules apply:

- for the manufacturing, distribution, installation and end of life phases, take values proportionals to the mass of the product
- for the environmental impacts of the use phase, thre value is proportional to the square of the intensity

Registration N°: LGRP-00677-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»			
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org			
Date of issue: 02-2019	Validity period: 5 years			
Independent verification of the declaration and data, in compliance with Internal ☐ External ☐	(DED			
The PCR review was conducted by a panel of experts chaired by Philippe				
The elements of the present PEP cannot be compared with elements from	m another program PASS			
Document in compliance with ISO 14025 : 2010: «Environmental labels an declarations»	d declarations. Type III environmental			
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013				