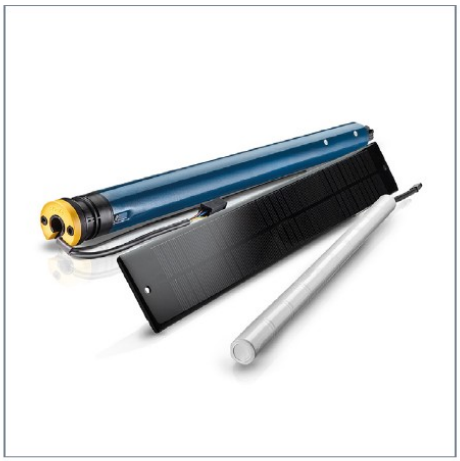
50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profile

Solar radio motor for rolling shutters
Oximo 40 io

Reference product



> Reference product

Oximo 40 IO 10/12

Ref 2009562

> Functional unit

Ensure the closing and opening action by performing 14 000 operating cycles, and a reference service life of 15 years, with a torque of 10 Nm, on a length of 2 meters, corresponding to 16 winding turns per half-cycle, with a tube diameter of 40 mm. This product is a motor + battery + autonomous photovoltaic panel kit intended for the motorization of outdoor roller shutters.

> References covered

OXIMO SOLAR io 3/23 KIT, ref 1241047
OXIMO SOLAR io 6/18 KIT, ref 1241048
OXIMO SOLAR io 10/12 KIT, ref 1241049
OXIMO SOLAR io 3/23+AD KIT, ref 1241050
OXIMO SOLAR io 6/18+AD KIT, ref 1241051
OXIMO SOLAR io 10/12+AD KIT, ref 1241052
OXIMO SOLAR io 6/18 KIT 10L, ref 1241058
OXIMO SOLAR io 10/12 KIT 10L, ref 1241059
OXIMO WIREFREE BATT W/O CASING, ref 9019795
OXIMO WF BATT W/O CASING X20, ref 9019793
OXIMO WIREFREE BATTERY STICK, ref 9021207
OXIMO WIREFREE RESIN SOLAR PANEL, ref 9019219
OXIMO WIREFREE RESIN SOLAR PANEL, ref 9019334
OXIMO WF SOLAR PAN TAPE, ref 9019335
OXIMO WF SOLAR PAN TA X10, ref 9019336
OXIMO BATT W/O CASING X20 10L, ref 9026432
OXIMO SOLAR PANEL X20 10L, ref 9026433

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Other		
	g	%		g	%		g	%
Polyester resin	156,0	6,8%	**Steel**	406,2	17,8%	**Nickel hydroxide**	88,1	3,9%
PET	88,1	3,9%	**Nickel**	179,0	7,9%	**Glass fibre**	27,6	1,2%
PA66	84,5	3,7%	**Aluminium**	144,3	6,3%	**Other**	94,4	4,1%
PU	66,4	2,9%	**Zamak**	96,4	4,2%			
POM	32,5	1,4%	**Copper**	41,6	1,8%			
Other	99,5	4,4%	**Ferrite Magnet**	38,3	1,7%			
			Other	31,3	1,4%			
						Packaging		
						Cardboard	496,0	21,8%
						Paper	109,8	4,8%
Total mass of reference flow: 2279.0g								
Estimated recyclable content: 62.1%								

> CHEMICAL SUBSTANCES

The products covered by this PEP comply with REACH regulation and RoHS directive.

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Manufacturing

The devices covered in this PEP are manufactured in a production that has adopted an environmental management approach.

> Energy model
French Mix

Distribution

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials.

> The unit pack has been modeled here. It is made up of :
- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers

Installation

Installation processes
There is no installation process.

> Energy model
No

Use

> Consumables and maintenance: 1 battery replacement during life cycle

> The product is autonomous, requiring only the energy provided by the included solar panel.

End of life

> Typical transport conditions

Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end of life processes implemented all around the world, we considered:

- 1000 km of transport
- A specific treatment for the Ni-MH battery and a landfill treatment for other constitutive materials

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Product Environmental Profile

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Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life.
All calculations are done with EIME software version EIME© v5.8.1

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Global warming	4,72E+01	kg.equivalent. CO2	2,88E+01	6,97E-01	8,79E-01	1,66E+01	2,65E-01
Ozone depletion	2,24E-05	kg.equivalent. CFC-11	1,16E-05	1,19E-09	2,27E-09	1,08E-05	3,07E-08
Acidification of soil and water	4,17E-01	kg.equivalent. SO2	2,10E-01	1,98E-02	2,13E-04	1,87E-01	7,99E-04
Water eutrophication	3,97E-02	kg.equivalent. P04 3-	1,97E-02	1,95E-03	1,57E-03	1,58E-02	6,59E-04
Photochemical Ozone formation	2,87E-02	kg.equivalent. C2H4	1,48E-02	9,80E-04	2,11E-04	1,26E-02	7,85E-05
Depletion of abiotic resources - elements	9,46E-04	kg.equivalent.Sb	8,35E-04	2,52E-08	2,08E-09	1,10E-04	9,20E-09
Depletion of abiotic resources fossil fuelss	4,26E+02	MJ	2,70E+02	8,86E+00	5,84E-01	1,43E+02	2,82E+00
Water pollution	4,06E+03	m3	2,60E+03	1,04E+02	4,61E+01	1,28E+03	2,52E+01
Air pollution	7,52E+03	m3	4,37E+03	9,55E+01	6,43E+00	3,02E+03	3,68E+01
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	2,74E+01	MJ	1,89E+01	1,14E-02	4,26E-03	8,45E+00	2,09E-02
Use of renewable primary energy resources used as raw materials	2,22E+00	MJ	1,49E+00	0,00E+00	0,00E+00	7,32E-01	0,00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2,96E+01	MJ	2,04E+01	1,14E-02	4,26E-03	9,18E+00	2,09E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	5,78E+02	MJ	3,79E+02	8,90E+00	6,37E-01	1,86E+02	3,73E+00
Use of non-renewable primary energy resources used as raw materials	2,10E+01	MJ	1,56E+01	0,00E+00	0,00E+00	5,36E+00	0,00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	5,99E+02	MJ	3,94E+02	8,90E+00	6,37E-01	1,91E+02	3,73E+00
Use of secondary materials	9,69E-01	kg	7,25E-01	0,00E+00	0,00E+00	2,44E-01	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
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
Net use of fresh water	1,04E+01	m3	9,85E+00	5,39E-05	5,32E-05	5,41E-01	4,73E-04
Hazardous waste disposed of	2,28E+02	kg	1,16E+02	0,00E+00	6,31E-04	1,12E+02	5,28E-01
Non-hazardous waste disposed of	7,33E+01	kg	4,08E+01	2,15E-02	6,74E-01	3,04E+01	1,31E+00
Radioactive waste disposed of	3,90E-02	kg	2,75E-02	1,49E-05	5,92E-06	1,14E-02	4,01E-05
Components for re-use	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	6,00E-09	kg	6,00E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	7,40E-02	MJ by energy vector	5,71E-03	0,00E+00	6,28E-02	5,50E-03	0,00E+00
Total use of primary energy during the life cycle	6,29E+02	MJ	4,15E+02	8,91E+00	6,42E-01	2,01E+02	3,75E+00

Registration number : **SOMF-00058-V01.01-EN**	Drafting Rules: PCR-ed3-EN-2015 04 02 Supplemented by PSR-0006-ed1.1-EN-2015 10 16
Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Date of issue: 12-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ❒ External ☒ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
Somfy contact: Justine ZAWADA, Sustainable Development Engineer, justine.zawada@somfy.com	