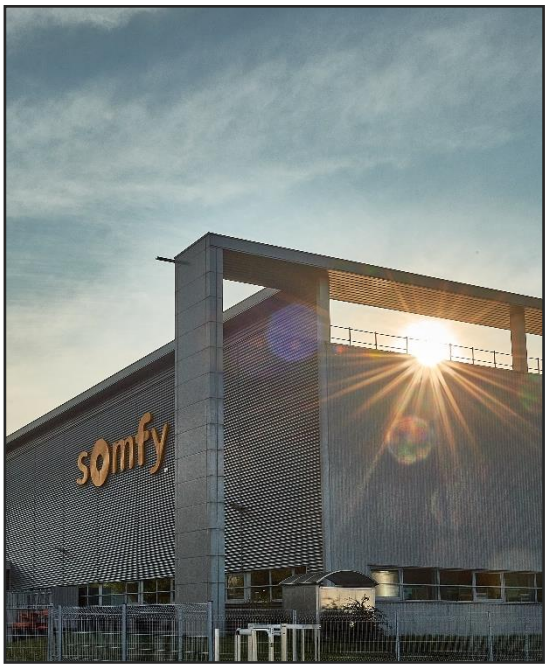
50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profile

Radio motor for curtains Glydea 2 ultra WF 50 Zigbee



A leading player in the housing industry for over 50 years, SOMFY is working to reduce its carbon emissions by 50% by 2030 and like so helps its customers and partners in their environmental approach.

Our actions to reduce our carbon footprint:

OFFER ECO-DESIGNED* PRODUCTS WITH A REDUCED ENVIRONMENTAL IMPACT THROUGHOUT THEIR LIFE CYCLE

OFFER SOLUTIONS THAT IMPROVE THE ENERGY EFFICIENCY OF BUILDINGS AND THUS LIMIT CO2 EMISSIONS.

[1]. Somfy's eco-design approach, identified by the ACT FOR GREEN label, aims to reduce the environmental impact of products throughout their life cycle, from the extraction of raw materials to the end of their life, by placing requirements above current regulations.

— Reference product



> Reference product

Glydea 2 ultra WF 50 Zigbee HP

Réf.	1246594A

Includes: cable, rail, Li-ION 2 Battery-6 9029424A, charger

> Functional unit

Ensure the closing and opening action by performing 14 000 operating cycles, over a service life of 15 years, with a torque of 50 N.m, on a run of 2 meters.

References covered:

Glydea 2 ultra WF 50 Zigbee HP	**1246594A**
Glydea 2 ultra WF 50 Zigbee	**1246595A**

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— 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		
	% mass	% rec		% mass	% rec		% mass	% rec
Acrylonitrile Butadiene Styrene	6,8%	0%	**Aluminium**	19,6%	19%	**Glass Fibre**	2,7%	0%
Polyamide 6	3,3%	0%	**Steel**	14,9%	0%	**Graphite**	1,2%	0%
Polyethylene Terephthalate (Pet)	2,6%	0%	**Zamak**	6,4%	43,5%	**PU glue**	0,7%	0%
Polycarbonate	1,7%	0%	**Ferrite Magnet**	3,3%	0%	**Other**	2,6%	0%
Polyvinyl Chloride	1,2%	0%	**Copper**	3,2%	0%	**Total**	7,1%	
Other	4,0%	0%	**Other**	4,4%	0%	Packaging		
Total	19,6%		**Total**	51,8%		**Cardboard**	16,1%	50%
						Paper	5,4%	100%
						Total	21,5%	
Total mass of the reference product :			**1.92 kg**					
Estimated recyclable content :			**64.6%**					

> CHEMICAL SUBSTANCES

The product covered by this PEP complies with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.

— Representativness

> Data has been collected between January and February 2025 by our design team, then treated and analyzed between April 2025.

> Data are related to the location of the production and assembly.

> Data matches with previous technology and commercial references only.

— Manufacturing

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

> Energy model

Electricity mix low voltage, China, 2020

— Distribution

> The transport model used to cover all international distribution scenarios from the assembly site to the customer is as follows:

- 19,000 km by boat
- 1,000 km by truck

— Installation

> Installation elements and processes

Not counted as negligible.

> Energy model

Not applicable

> Packaging End of life

100% incinerated.

— Use

This motor is powered by an on-board Li-ion battery.

Recharging the battery is necessary and consumes 43.5 Wh. The product's autonomy is 12.5 months, so 14.4 recharges are required for a 15-year life. This corresponds to 626Wh of energy consumption.

> Energy model of the use phase: European electricity mix, low voltage; 2020

> Consumables and maintenance: This motor requires a battery change after 8 years of use. (First battery comes with the product, the second is not)

— 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:

- 100 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.
- Loading rate of the truck going to the waste disposal center of 80%.

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Product Environmental Profile

Radio motor for curtains Glydea 2 ultra WF 50 Zigbee

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© v6.3 and CODDE-2024/04 updated 04-06-2024, on functional unit with following indicator set: Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life	Module D
Climate change	**kg CO2 eq.**	**3,85E+01**	**2,31E+01**	**6,24E-01**	**7,30E-01**	**1,19E+01**	**2,09E+00**	**9,83E-01**
Climate change - biogenic	kg CO2 eq.	2,80E-01	-4,07E-01	0,00E+00	5,96E-01	4,26E-02	4,89E-02	1,05E+00
Climate change - fossil	kg CO2 eq.	3,82E+01	2,35E+01	6,24E-01	1,34E-01	1,19E+01	2,04E+00	-7,13E-02
Climate change - land use and land use change	kg CO2 eq.	5,64E-05	5,14E-05	0,00E+00	0,00E+00	5,02E-06	0,00E+00	0,00E+00
Ozone depletion	kg CFC-11 eq.	1,82E-05	9,84E-06	8,20E-10	4,71E-09	8,27E-06	5,36E-08	1,29E-07
Acidification	mol H+ eq.	3,17E-01	2,00E-01	2,05E-02	8,14E-04	9,08E-02	4,34E-03	1,76E-03
Eutrophication freshwater	kg P eq.	8,01E-04	4,23E-04	2,16E-07	1,04E-07	3,66E-04	1,21E-05	-1,11E-05
Eutrophication marine	kg N eq.	4,30E-02	2,58E-02	4,90E-03	2,03E-04	1,09E-02	1,23E-03	-8,79E-04
Eutrophication terrestrial	mol N eq.	4,16E-01	2,53E-01	5,36E-02	2,64E-03	9,12E-02	1,50E-02	-5,13E-03
Photochemical ozone formation. human health	kg NMVOC eq.	1,37E-01	8,43E-02	1,38E-02	5,71E-04	3,54E-02	3,29E-03	-8,04E-04
Resource use. minerals and metals	kg SB eq.	1,53E-03	1,11E-03	2,24E-08	9,62E-09	4,18E-04	4,18E-08	4,65E-05
Resource use. fossils	MJ	5,19E+02	3,75E+02	7,94E+00	2,47E+00	1,23E+02	1,01E+01	5,39E+00
Water use	m3 eq.	2,38E+02	1,24E+02	2,07E-03	5,57E-03	1,14E+02	8,08E-02	2,54E-01
Particulate matter	Disease occurrence	1,75E-06	1,18E-06	1,09E-07	5,67E-09	4,28E-07	2,79E-08	3,44E-08
Ionising radiation. human health	kBq U235 eq.	2,48E+02	2,03E+02	1,30E-03	5,43E-02	4,38E+01	2,06E-01	1,98E-01
Ecotoxicity. freshwater	CTUe	2,37E+03	2,22E+03	3,75E-01	3,22E+00	8,68E+01	5,92E+01	-1,73E+01
Human toxicity. cancer	CTUh	1,08E-06	3,81E-07	9,37E-12	2,31E-11	3,00E-07	4,03E-07	-1,41E-07
Human toxicity. non-cancer	CTUh	6,33E-07	4,12E-07	2,07E-10	9,61E-10	1,62E-07	5,80E-08	9,02E-09
Land use	No dimension	3,63E+00	1,88E+00	0,00E+00	2,53E-03	1,73E+00	1,74E-02	0,00E+00
Renewable primary energy used as energy	MJ	2,54E+01	1,87E+01	1,02E-02	1,82E-01	5,84E+00	6,32E-01	-8,24E+00
Renewable primary energy used as raw material	MJ	3,09E+00	3,09E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total renewable primary energy	MJ	2,85E+01	2,18E+01	1,02E-02	1,82E-01	5,84E+00	6,32E-01	-8,24E+00
Non-renewable primary energy used as energy	MJ	5,00E+02	3,61E+02	7,94E+00	2,47E+00	1,19E+02	1,01E+01	5,39E+00
Non-renewable primary energy used as raw material	MJ	1,86E+01	1,40E+01	0,00E+00	0,00E+00	4,54E+00	0,00E+00	0,00E+00
Total non-renewable primary energy	MJ	5,19E+02	3,75E+02	7,94E+00	2,47E+00	1,23E+02	1,01E+01	5,39E+00
Total Primary Energy	MJ	5,47E+02	3,97E+02	7,95E+00	2,65E+00	1,29E+02	1,07E+01	-2,86E+00
Use of secondary material	kg	4,48E-01	4,47E-01	0,00E+00	0,00E+00	9,73E-04	0,00E+00	0,00E+00
Use of renewable secondary fuels	MJ	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	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	m3	5,53E+00	2,88E+00	4,82E-05	2,19E-04	2,65E+00	2,13E-03	5,92E-03
Hazardous waste disposed	kg	2,35E+02	1,23E+02	0,00E+00	1,41E-01	1,10E+02	1,83E+00	4,45E-01
Non-hazardous waste disposed	kg	2,71E+01	1,93E+01	1,92E-02	1,92E-02	7,69E+00	8,03E-02	1,53E+00
Radioactive waste disposed	kg	1,89E-02	1,34E-02	1,34E-05	7,93E-06	5,41E-03	3,58E-05	1,09E-03
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	1,54E-03	7,72E-04	0,00E+00	0,00E+00	7,72E-04	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

> Details of the impact of Module B.

Indicators	Units	Use	B1	B2	B3	B4	B5	B6	B7
Climate change	**kg CO2 eq.**	**1,19E+01**	**0,00E+00**	**1,17E+01**	**0,00E+00**	**0,00E+00**	**0,00E+00**	**2,21E-01**	**0,00E+00**
Climate change - biogenic	kg CO2 eq.	4,26E-02	0,00E+00	4,22E-02	0,00E+00	0,00E+00	0,00E+00	4,06E-04	0,00E+00
Climate change - fossil	kg CO2 eq.	1,19E+01	0,00E+00	1,17E+01	0,00E+00	0,00E+00	0,00E+00	2,20E-01	0,00E+00
Climate change - land use and land use change	kg CO2 eq.	5,02E-06	0,00E+00	5,02E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Ozone depletion	kg CFC-11 eq.	8,27E-06	0,00E+00	8,27E-06	0,00E+00	0,00E+00	0,00E+00	1,07E-09	0,00E+00
Acidification	mol H+ eq.	9,08E-02	0,00E+00	8,97E-02	0,00E+00	0,00E+00	0,00E+00	1,13E-03	0,00E+00
Eutrophication. freshwater	kg P eq.	3,66E-04	0,00E+00	3,65E-04	0,00E+00	0,00E+00	0,00E+00	5,81E-07	0,00E+00
Eutrophication. marine	kg N eq.	1,09E-02	0,00E+00	1,08E-02	0,00E+00	0,00E+00	0,00E+00	1,38E-04	0,00E+00
Eutrophication. terrestrial	mol N eq.	9,12E-02	0,00E+00	8,90E-02	0,00E+00	0,00E+00	0,00E+00	2,21E-03	0,00E+00
Photochemical ozone formation. human health	kg NMVOC eq.	3,54E-02	0,00E+00	3,50E-02	0,00E+00	0,00E+00	0,00E+00	4,34E-04	0,00E+00
Resource use. minerals and metals	kg SB eq.	4,18E-04	0,00E+00	4,18E-04	0,00E+00	0,00E+00	0,00E+00	7,81E-08	0,00E+00
Resource use. fossils	MJ	1,23E+02	0,00E+00	1,17E+02	0,00E+00	0,00E+00	0,00E+00	5,57E+00	0,00E+00
Water use	m3 eq.	1,14E+02	0,00E+00	1,14E+02	0,00E+00	0,00E+00	0,00E+00	1,69E-02	0,00E+00
Particulate matter	Disease occurrence	4,28E-07	0,00E+00	4,19E-07	0,00E+00	0,00E+00	0,00E+00	9,11E-09	0,00E+00
Ionising radiation. human health	kBq U235 eq.	4,38E+01	0,00E+00	4,35E+01	0,00E+00	0,00E+00	0,00E+00	3,17E-01	0,00E+00
Ecotoxicity. freshwater	CTUe	8,68E+01	0,00E+00	8,64E+01	0,00E+00	0,00E+00	0,00E+00	4,17E-01	0,00E+00
Human toxicity. cancer	CTUh	3,00E-07	0,00E+00	3,00E-07	0,00E+00	0,00E+00	0,00E+00	2,78E-11	0,00E+00
Human toxicity. non-cancer	CTUh	1,62E-07	0,00E+00	1,61E-07	0,00E+00	0,00E+00	0,00E+00	6,63E-10	0,00E+00
Land use	No dimension	1,73E+00	0,00E+00	1,72E+00	0,00E+00	0,00E+00	0,00E+00	6,11E-03	0,00E+00
Renewable primary energy used as energy	MJ	5,84E+00	0,00E+00	4,36E+00	0,00E+00	0,00E+00	0,00E+00	1,47E+00	0,00E+00
Renewable primary energy used as raw material	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 renewable primary energy	MJ	5,84E+00	0,00E+00	4,36E+00	0,00E+00	0,00E+00	0,00E+00	1,47E+00	0,00E+00
Non-renewable primary energy used as energy	MJ	1,19E+02	0,00E+00	1,13E+02	0,00E+00	0,00E+00	0,00E+00	5,57E+00	0,00E+00
Non-renewable primary energy used as raw material	MJ	4,54E+00	0,00E+00	4,54E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total non-renewable primary energy	MJ	1,23E+02	0,00E+00	1,17E+02	0,00E+00	0,00E+00	0,00E+00	5,57E+00	0,00E+00
Total Primary Energy	MJ	1,29E+02	0,00E+00	1,22E+02	0,00E+00	0,00E+00	0,00E+00	7,05E+00	0,00E+00
Use of secondary material	kg	9,73E-04	0,00E+00	9,73E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	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	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 freshwater	m3	2,65E+00	0,00E+00	2,65E+00	0,00E+00	0,00E+00	0,00E+00	3,97E-04	0,00E+00
Hazardous waste disposed	kg	1,10E+02	0,00E+00	1,10E+02	0,00E+00	0,00E+00	0,00E+00	9,68E-03	0,00E+00
Non hazardous waste disposed	kg	7,69E+00	0,00E+00	7,65E+00	0,00E+00	0,00E+00	0,00E+00	3,73E-02	0,00E+00
Radioactive waste disposed	kg	5,41E-03	0,00E+00	5,40E-03	0,00E+00	0,00E+00	0,00E+00	8,56E-06	0,00E+00
Components for reuse	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	kg	7,72E-04	0,00E+00	7,72E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	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	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

> Biogenic carbon content: 0.00 kg C. biogenic for the product, 0.17 kg C. biogenic for the packaging, using -1/+1 method with the EF3.1 indicator set.

> Those impacts are only applicable to the reference product on page 1.

> Extrapolation rule

Not needed

Registration number : **SOMF-00322-V01.01-EN**	Drafting Rules: PCR-ed4-FR-2021 09 06 Complemented by: PSR-0006-ed2.1-FR-2023 12 08
Accreditation number: VH48	Programme information: 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 ISO 14025 environnemental declaration type III PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022 The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025: 2010 “Environmental labels and declarations. Type III environmental déclarations. »	
Somfy contact: Pierre HOGUET. Ecodesign Engineer. pierre.hoguet@somfy.com	