

# Product Environmental Profile

## Mobiya Original -SOLAR LANTERN

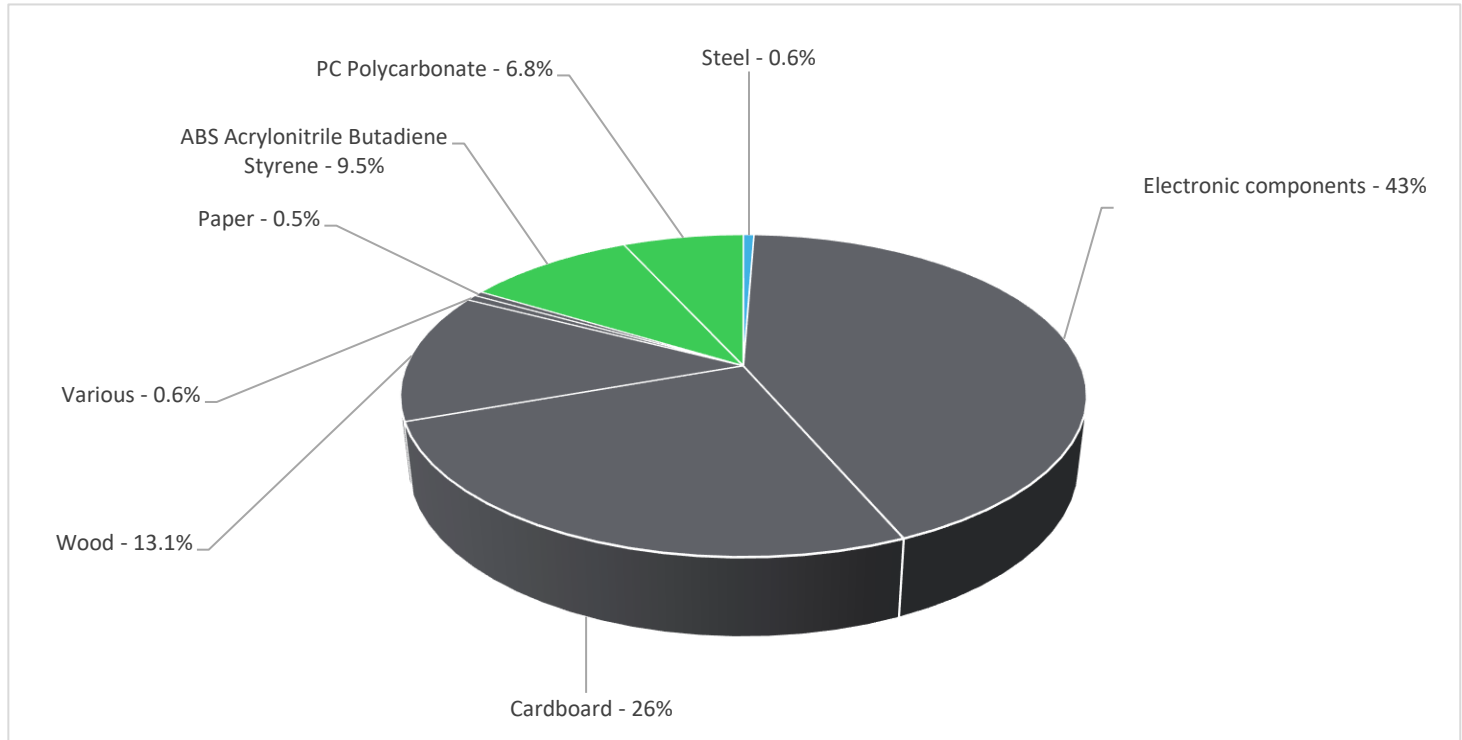


## General information

<b>Representative product</b>	Mobiya Original -SOLAR LANTERN - AEP-LOR01-S1000
<b>Description of the product</b>	Mobiya Original is a portable solar LED lighting system providing safe, green and reliable access to energy with multiple mounting options will conveniently lights up your surroundings and charges your basic mobile phone.
<b>Functional unit</b>	LED lighting sysytem used to providing safe, green and reliable illumination by supplying 200 lumens of light for 6 hours with 100 % charged battery.A solar panel with a universal charging cable, ensures Mobiya Lite can be charged by the sun or by any USB port.

## Constituent materials

**Reference product mass** 1650 g including the product, its packaging and additional elements and accessories



Plastics	16.3%
Metals	0.6%
Others	83.2%

## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



## Additional environmental information

The Mobyia Original -SOLAR LANTERN presents the following relevant environmental aspects

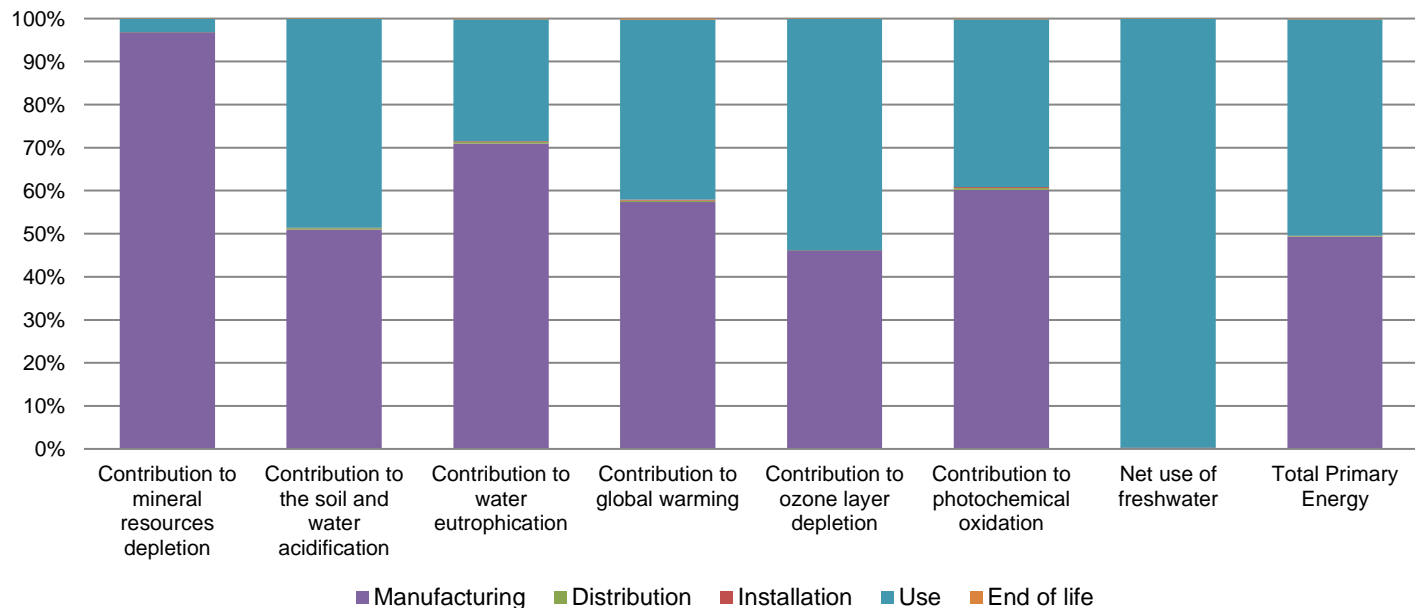
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 666 g, consisting of Cardboard (65.76%), Paper (1.21%), Wood (33.03%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	This product does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains Printed Circuit Board Assembly ( 60.7583 g) that should be separated from the stream of waste so as to optimize end-of-life treatment.  The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>53%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



## Environmental impacts

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	This product does not require any special components during installation			
<b>Use scenario</b>	The product is in 75 % active mode and 25% stand by mode with a power use of 1.25 W for 10 years.			
<b>Geographical representativeness</b>	Global			
<b>Technological representativeness</b>	Mobyia Original is a portable solar LED lighting system providing safe, green and reliable access to energy with multiple mounting options will conveniently lights up your surroundings and charges your basic mobile phone.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Batam, Indonesia	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Mobyia Original -SOLAR LANTERN - AEP-LOR01-S1000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.17E-03	2.10E-03	0*	0*	6.88E-05	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	3.32E-01	1.69E-01	9.72E-04	2.21E-04	1.61E-01	3.91E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	5.49E-02	3.90E-02	2.24E-04	8.29E-05	1.55E-02	1.17E-04
Contribution to global warming	kg CO <sub>2</sub> eq	8.63E+01	4.95E+01	2.13E-01	2.58E-01	3.60E+01	2.56E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.09E-05	5.01E-06	0*	0*	5.83E-06	1.48E-08
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2.09E-02	1.26E-02	6.94E-05	6.14E-05	8.15E-03	4.21E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	1.22E+02	3.20E-01	0*	0*	1.22E+02	0*
Total Primary Energy	MJ	1.38E+03	6.80E+02	3.01E+00	5.65E-01	6.95E+02	2.11E+00



Optional indicators		Mobyia Original -SOLAR LANTERN - AEP-LOR01-S1000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	9.92E+02	5.88E+02	2.99E+00	5.40E-01	3.99E+02	1.58E+00
Contribution to air pollution	m³	4.48E+03	2.69E+03	9.06E+00	6.46E+00	1.76E+03	1.64E+01
Contribution to water pollution	m³	9.07E+03	7.34E+03	3.50E+01	6.14E+00	1.62E+03	7.22E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.61E-04	3.61E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.02E+02	1.63E+01	0*	0*	8.60E+01	0*
Total use of non-renewable primary energy resources	MJ	1.28E+03	6.63E+02	3.01E+00	5.59E-01	6.09E+02	2.11E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.89E+01	2.89E+00	0*	0*	8.60E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.35E+01	1.35E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.26E+03	6.50E+02	3.01E+00	5.59E-01	6.08E+02	2.11E+00
Use of non renewable primary energy resources used as raw material	MJ	1.37E+01	1.32E+01	0*	0*	4.92E-01	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	6.77E+01	3.41E+01	0*	0*	3.19E+01	1.67E+00
Non hazardous waste disposed	kg	1.33E+02	5.54E+00	0*	1.79E-01	1.27E+02	1.83E-02
Radioactive waste disposed	kg	9.06E-02	5.58E-03	0*	0*	8.50E-02	1.16E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.12E+00	8.15E-02	0*	5.07E-01	0*	5.36E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.89E-02	0*	0*	0*	0*	2.89E-02
Exported Energy	MJ	1.52E-01	1.43E-02	0*	1.38E-01	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number	ENVPEP1911011_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2019		
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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