

Product Environmental Profile



DELPHYS MX Elite+ from 300 to 400kVA

High performance UPS with an embedded galvanic isolation transformer, up to 400kVA
From 300 to 400kVA



Socomec is member of :

ecosystem

Member of WEEE Europe



Gimélec

Environment and sustainable development commissions



The commitments of Socomec to respect the environment

As part of its environmental policy, Socomec is committed to:

- Incorporate the principles of the circular economy into the design of new products and services
- Promote longer product lifetimes
- Promote the use of environmentally responsible materials
- Design and develop solutions to further improve the energy efficiency of our products and services
- Inform our customers in a transparent manner about the environmental impact of our products throughout their life cycle.

To this end, Socomec is committed to constantly monitoring, anticipating and complying with environmental regulations as well as customer expectations relating to its products, and to ensuring that all those involved adhere to and take responsibility for its commitments.

PEP ecopassport® Registration number: SOCO-00149-V01.01-EN

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Innovative Power Solutions

• Product information :

Reference product	
Model	DELPHYS MX ELITE+ 400KVA
Sales reference	3MX-040A100000A
Description	Uninterruptible power supply up to 400 kVA
General data	
UPS Configuration	Single
UPS topology	Double conversion
UPS Performance classification	VFI-SS-111
Number of phases available	Three phase
Power [W]	400000
Apparent power [VA]	400000
Acoustic noise [dB]	<72
Efficiency	
Weighted UPS efficiency [%]	93,83%
Weight & dimensions	
Dimensions W*D*H [mm]	1590*940*2090
Mass without packaging [kg]	2280,51
Mass of the packaging [kg]	154,32

The UPS is not equipped with an energy storage system.

Functional unit :

To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 years.

Declared unit :

To ensure the supply of power to remain within specified characteristics to equipment with load of 400000 watts for a RSL of 15 years.

Mathematic relation between DU (declared unit) and FU (functional unit) mentioned in PSR-0010-ed2.0-EN 2023 12 08

References covered by this PEP with extrapolation rules:

- DELPHYS MX ELITE+ 400KVA with sales references: 3MX-040A100000A; 3MX-040B10A000A; 3MX-040C10A000A

- DELPHYS MX ELITE+ 300KVA with sales references: 3MX-030A100000A; 3MX-030B10A000A; 3MX-030C10A000A

Characteristics of the covered references:

Model	Power [W]	Weighted UPS efficiency [%]	Product mass [kg]	Packaging mass [kg]
DELPHYS MX ELITE+ 400KVA	400000	93,83%	2281	154
DELPHYS MX ELITE+ 300KVA	300000	94,41%	2200	154

• Materials and substances

Declaration of the constitutives materials

Total mass of the DELPHYS MX ELITE+ 400KVA (including packaging): 2434,83 kg among which packaging: 154,32 kg

For the reference product:

Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyamide	2,46%	Steel	64,39%	Wood	6,35%
Epoxy resin	1,68%	Aluminium and its alloys	17,16%	Paper	0,26%
PP	0,51%	Copper and its alloys	5,04%	Miscellaneous	0,14%
Polyester	0,46%	Zinc and its alloys	<0,1%	Other inorganics	<0,1%
PUR	0,23%	Other ferrous alloys	<0,1%	Cardboard	<0,1%
PVC	0,17%	Nickel and its alloys	<0,1%	Electronic components	<0,1%
PE	0,14%	Tin and its alloys	<0,1%	Other organics	<0,1%
Phenolic resin	0,13%	Precious metals	<0,1%		
ABS	<0,1%	Other metals	<0,1%		
PBT	<0,1%				
PET	<0,1%				
Other plastics	0,39%				
Total Plastics: 154,87 kg		Total Metals: 2112,23 kg		Total Others: 167,73 kg	
	6,36%		86,75%		6,89%

Substances management

Socomec is leading a program to limit the use of hazardous substances in the design of new products and to monitor the presence of substances of concern in its supplies to anticipate future use restrictions.



Directive 2011/65/EU : Product references covered by this PEP meet the requirements of the RoHS Directive on the restriction of substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), polybrominated diphenyl ethers (PBDEs) and phthalates (DIBP, DEHP, BBP, DBP).



REACH 1907/2006 regulation: To the best of our knowledge, based on the supplier declarations, at the publication date of this document, the product do not contain any SVHC in a concentration above 0,1% per weight.

• Manufacturing

The products covered by this PEP are manufactured in a chinese production site, a site where impacts on the environment are reduced by optimizing its energy consumption and by practicing a rigorous waste management. Moreover, Socomec is committed to the progressive ISO 14001 certification of its manufacturing sites.

• Distribution

As part of its distribution policy aiming to respect the environment, Socomec is in favor of groupage transports and ISO 14001 certified logistic partners.

No reconditionning is planned for the product. This phase is consequently neglected.

The sizing of the packaging has been optimized to ensure the best possible protection of the product at the lowest possible volume in order to reduce the impact of the transport stage on the environment.

● Installation

The installation phase consists in connecting the product to the existing electrical installation.

The installation does not generate any significant impacts on the environment, except impacts from packaging waste.

● Use phase

Consumption scenario

Use phase scenario: European energy mix

Load (%)	25%	50%	75%	100%
Proportion of time spent (%)	25%	50%	25%	0%

Total energy consumption during 15 years

Total average energy consumption	1587641 kWh
Average UPS efficiency	93,83%

Care and maintenance

It is recommended to carry out periodic specialized maintenance in order to keep the equipment at the maximum level of efficiency and to avoid the installation being out of service with possible damage/risks.

Typical consumables which are subjects to maintenance in a period of 15 years:

Consumables	DC capacitor filtering	AC capacitor filtering	Fans	Power supply PCB
Number of replacement	1	1	3	1

● End of life

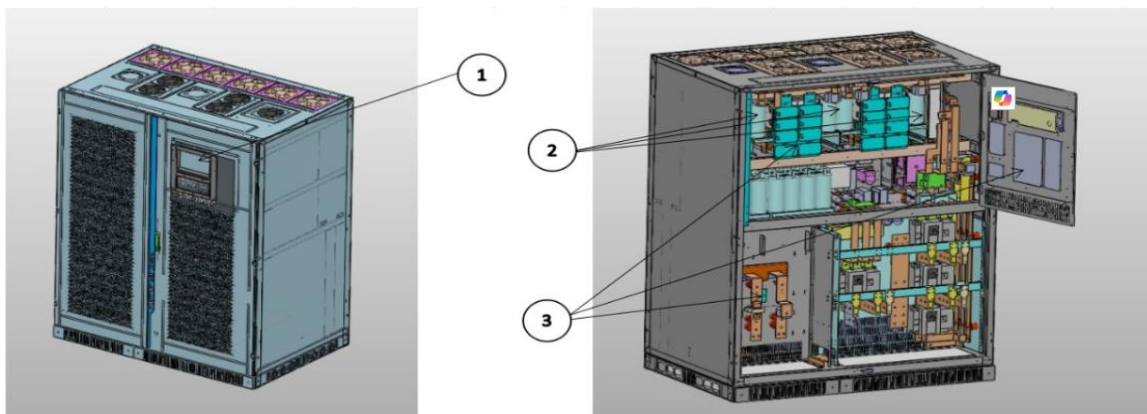
End of life treatment

The following parts require specific care and selective treatment in accordance with Annex VII of the WEEE Directive 2012/19/EU:

Waste of electrical and electronic equipment. Maintenance and disassembly should always be conducted by qualified personnel.

Type of component	Item	Part mass	Location
LCD	3002-00012	1,162 kg	1
Condensateur	E137108 (2201-00136)	16x1.688 kg	2
Electronic cards	*	4.844 kg	3

* PCBA-00065, PCBA-00145, PCBA-00150, PCBA-00152, PCBA-00369, PCBA-00371x3, PCBA-00380x8, PCBA-00381x8, PCBA-00405, PCBA-00488x2, PCBA-00548, PCBA-00618, PCBA-00619, PCBA-00628, PCBA-00651, PCBA-00653x8, PCBA-00654, PCBA-00655, PCBA-00656, PCBA-00662, PCBA-00667, 7701-00498x9



Recyclability potential of the product according to IEC TR 62635

The recyclability potential of the product is 82,1%.

This covers material and energy recovery potentials.

• Additional information



This environmental declaration lists the information required in Annex A and B of IEC 62040-4 (Edition 1.0 2013-04) and EN 62040-4:2013 (2014-03).

• Environmental impacts

Calculation methodology: life cycle assessment (LCA)



The calculation of the impacts on the environment was made using a life cycle assessment methodology in accordance with the ISO 14040 requirements and with PEP eco passport product category rules.

For more details follow the link:

www.pep-ecopassport.org

This study was carried out with the following version of the software EIME and of the database:

EIME version: EIME v6.3.0.1

Database version: CODDE-2025-04

For biogenic carbon storage the following methodology was used : -1/+1

The whole life cycle has been taken into account:

Step	Geographical representativeness	Scenario
Manufacturing (M) (A1-A3)	Production of electronic components : Asia Production of other components and packaging : Asia Assembly : China	From the raw material extraction to the last Socomec logistic platform, including packaging Waste generated during manufacturing phase are taken into account.
Distribution (D) (A4)	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer. No product reconditionning.
Installation (I) (A5)	Transport and treatment of packaging wastes : Local	Local road transport of 1000 km of generated wastes to the treatment site, end of life treatment.
Use phase (U) (B1-B7)	Energy mix : Europe Production of maintenance components: analog to manufacturing phase	Power consumption required during 15 years according to consumption scenario above mentionned.
End of life (EOL) (C1-C4)	Transport and treatment : Local	Road transport of 1000 km from the final customer to the treatment sites. End of life treatment.

Environmental impacts of the DELPHYS MX ELITE+ 400KVA per functional unit (power of 100W and a lifespan of 1 year)

The following impacts have been calculated to best represent geographically, temporally and technologically each step of the life cycle.

Indicators	Unit	Total impact	M (A1-A3)	D (A4)	I (A5)	U (B1-B7)	EOL (C1-C4)
Climate change	kg CO2 eq.	1,11E+01	3,19E-01	6,75E-03	4,52E-03	1,07E+01	1,15E-02
Climate change-Biogenic	kg CO2 eq.	2,41E-01	5,79E-04	0*	3,73E-03	2,36E-01	0*
Climate change-Fossil	kg CO2 eq.	1,08E+01	3,18E-01	6,75E-03	0*	1,05E+01	1,15E-02
Climate change-Land use and land use change	kg CO2 eq.	3,90E-08	2,68E-08	1,02E-08	1,91E-10	1,31E-09	5,22E-10
Ozone depletion	kg CFC-11 eq.	7,12E-08	2,33E-08	8,18E-11	2,29E-11	4,76E-08	1,76E-10
Acidification	mol H+ eq.	5,89E-02	2,76E-03	1,08E-05	0*	5,62E-02	0*
Eutrophication, freshwater	kg P eq.	2,74E-05	1,65E-06	2,53E-08	0*	2,57E-05	1,73E-08
Eutrophication, marine	kg N eq.	6,91E-03	3,36E-04	1,98E-06	9,20E-07	6,57E-03	1,01E-06
Eutrophication, terrestrial	mol N eq.	1,09E-01	3,90E-03	2,17E-05	1,22E-05	1,05E-01	0*
Photochemical ozone formation - human health	kg NMVOC eq.	2,21E-02	1,19E-03	6,98E-06	2,63E-06	2,09E-02	5,34E-06
Resource use, minerals and metals	kg SB eq.	1,70E-05	1,29E-05	2,41E-09	0*	4,07E-06	0*
Resource use, fossils	MJ	2,71E+02	1,38E+01	1,20E-01	0*	2,57E+02	0*
Water use	m3 eq.	1,01E+00	1,97E-01	2,43E-04	0*	8,15E-01	4,17E-04
Particulate matter	Disease occurrence	4,59E-07	1,85E-08	9,17E-11	0*	4,40E-07	0*
Ionising radiation, human health	kBq U235 eq.	1,41E+01	7,42E-02	0*	0*	1,40E+01	0*
Ecotoxicity, freshwater	CTUe	5,10E+01	3,45E+01	1,97E-01	1,83E-02	1,63E+01	6,01E-02
Human toxicity, cancer	CTUh	1,30E-08	6,55E-09	1,32E-12	0*	6,45E-09	0*
Human toxicity, non-cancer	CTUh	4,06E-08	8,95E-09	2,52E-11	4,87E-12	3,16E-08	1,51E-11
Land use	No dimension	2,84E-01	5,06E-04	2,88E-05	0*	2,84E-01	0*
Renewable primary energy used as energy	MJ	6,02E+01	1,43E-01	0*	1,31E-02	6,01E+01	0*
Renewable primary energy used as raw material	MJ	7,50E-02	7,27E-02	0*	0*	2,25E-03	0*
Total renewable primary energy	MJ	6,03E+01	2,16E-01	0*	1,31E-02	6,01E+01	0*
Non renewable primary energy used as energy	MJ	2,71E+02	1,37E+01	1,20E-01	0*	2,57E+02	0*
Non renewable primary energy used as raw material	MJ	1,33E-01	1,12E-01	0*	0*	2,09E-02	0*
Total non renewable primary energy	MJ	2,71E+02	1,38E+01	1,20E-01	0*	2,57E+02	0*
Total primary energy	MJ	3,31E+02	1,40E+01	1,20E-01	0*	3,17E+02	0*
Use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Net use of fresh water	m3	2,36E-02	4,59E-03	5,66E-06	0*	1,90E-02	0*
Hazardous waste disposed	kg	7,59E-01	4,18E-01	0*	6,53E-04	3,40E-01	0*
Non hazardous waste disposed	kg	1,91E+00	2,82E-01	6,25E-04	0*	1,63E+00	0*
Radioactive waste disposed	kg	6,09E-04	2,14E-04	4,95E-07	0*	3,95E-04	6,64E-08
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for recycling	kg	8,34E-04	9,45E-07	0*	8,33E-04	0*	0*
Materials for energy recovery	kg	1,74E-03	0*	0*	1,74E-03	0*	0*
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*
Biogenic carbon content - Product	kg of C	0,00E+00	0*	0*	0*	0*	0*
Biogenic carbon content - Packaging	kg of C	1,11E-03	1,07E-03	0*	0*	4,21E-05	0*

NB : 0* means that this impact either represents less than 0.01% of the total life cycle of the reference flow, or has no impact (in the case where the total impact is zero).

PRODUCT ENVIRONMENTAL PROFILE

The aforementioned impacts are declared for the functional unit of the reference product.

The environmental impacts of the reference product per declared unit can be calculated by multiplying the values of the environmental indicators by the factor available in the following table.

Life cycle phase	All life cycle phase
Factor	60000

Registration number : SOCO-00149-V01.01-EN	Drafting Rules : "PEP-PCR-ed4-EN 2021 09 06" Supplemented by : "PSR-0010-ed2.0-EN 2023 12 08"
Verifier accreditation number : VH12	Information and reference documents : www.pep-ecopassport.org
Date of issue: 09-2025	Validity period : 5 years
Independant 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)	
PEPs are compliant with XP C08-100-1 : 2016 or EN 50693:2019	
The components of the present PEP may not be compared with components from any other program.	
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"	

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Other covered references

For the products covered by the PEP other than the reference product, the environmental impacts of each phase of the lifecycle are calculated by multiplying the declared unit impacts values with the following extrapolation factors:

Model	M (A1-A3)	D (A4)	I (A5)	U (B1-B7)	EOL (C1-C4)
DELPHYS MX ELITE+ 400KVA	1,00	1,00	1,00	1,00	1,00
DELPHYS MX ELITE+ 300KVA	0,97	0,97	1,00	0,68	0,96