



Netys RT

Uninterruptible power supply up to 3.3kVA



The commitments of Socomec to respect the environment

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

- Develop innovating solutions primarily focused on energy efficiency to help its customer in the design of less energy-consuming, better managed and ecofriendly installations.
- Diversify its product offer in the renewable energy and energy efficiency sectors,
- Minimize the environmental impact of its industrial activities through the progressive ISO 14001 certification of its production sites,
- Minimize at the preliminary design stage the environmental impacts of its products taking into account their whole life cycle,
- Provide his customers with reliable data on the environmental performance of the products.

Socomec is member of :



Environment and sustainable development commissions



■ Representative product

Reference product

The representative product is the NETYS RT 3.3kVA with commercial reference NRT2-U3300.

Product	Input dependency characteristics	Configuration	Power kVA/kW	Dimensions	Acoustic noise	Power factor
NETYS RT 3.3kVA	VFI monomode	online double conversion	3.3/2.7	440 x 89 x 610 mm	<50dBA	0.9

Functional unit

To protect the load of 3.3 kVA against input failure during 8 years and provide a backup time of 10 minutes⁽¹⁾ in case of power outage.

(1) @75% of rated load PF 0.7.

■ Material and substances

Declaration of the constitutive materials according to IEC 62474

Total mass of reference product (including packaging and batteries): 40 kg

Mass of the batteries (VRLA type): 15.5 kg

Mass of the packaging (wooden pallet, paper, cardboard, EPE foam, plastic film): 10.7 kg

For the NETYS RT 3.3kVA – with batteries

Metals, % weight		Plastics, % weight		Others, % weight	
Other non-ferrous metals and alloys	30,3%	Other Thermoplastics	8,1%	Other Organic Materials	24,2%
Other Ferrous alloys, non-stainless steels	23%	PolyVinylChloride (PVC)	1,6%	Other inorganic materials	6%
Aluminum and its alloys	3,5%	Other Plastics and Rubber	1,2%	Ceramics / Glass	0,6%
Copper and its alloys	1,2%				
Stainless steel	0,3%				
Zinc and its alloys	<0,1%				
Nickel and its alloys	<0,1%				
Precious metals	<0,1%				

The estimated content of recycled materials is 10.4%, based on a Life Cycle Analysis model with EIME software which is a software distributed by CODDE, a subsidiary of Bureau Veritas.

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.



ROHS directive 2011/65/EU compliance: although the majority of Socomec products are outside the scope of the ROHS directives, a ROHS compliance process has been in progress on a voluntary basis since 2006. 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) and polybrominated diphenyl ethers (PBDEs).



REACH 1907/2006 regulation: to the best of our knowledge at the publication date of this document, none of the substance of the candidate list to authorization (SVHC) has been found in the references covered by this PEP.

■ Manufacturing



The products covered by this PEP are manufactured on the production site whose environmental management system has been ISO 14001 certified. Impacts on the environment are reduced by optimizing its energy consumption and by practicing a rigorous waste management.

■ Distribution

As part of its distribution policy aiming to respect the environment, Socomec is in favor of groupage transports and ISO14001 certified logistic partners.

The packaging is mainly made of : wood pallet (4.625kg), cardboard (4.79kg), plastic film(0.128kg), EPE foam (0.83kg),paper manuals (0.322kg).

No reconditioning is needed for this product.



The packaging complies with Directive 94/62/EC.

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.

Packaging design solutions favors mono-material recyclable cardboard without coloring or bleaching. The wedging of the packaged product is made of recycled cardboard, no polystyrene is used.

■ Installation

The installation stage 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 in on-line mode (VFI)

Use phase scenario: European energy mix

Load (%)	25%	50%	75%	100%
Proportion of time spent (%)	0%	30%	40%	30%

Total energy consumption during 8 years

Reference product	NETYS RT 3.3kVA
Total energy consumption	11 513 kWh
Average UPS efficiency	93,24%

Care and maintenance

The product does not require any maintenance under normal conditions of use.

Consumables

The product does not require consumables.

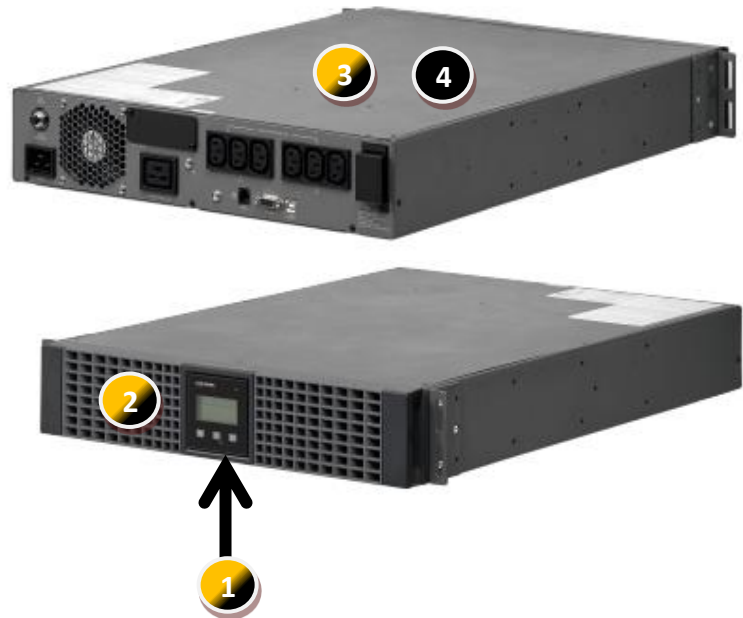
■ End of life

End of life treatment according to IEC TR 62635

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 risk	Type of component	Mass (%)	Location
Potential security hazard for operators	LCD screen	<1%	1
	Batteries	38,8%	2
	Capacitors	<1%	3
Necessity of a selective treatment	LCD screen	<1%	1
	Batteries	38,8%	2
	Capacitors	<1%	3
	PCBA	<1%	4



Recovery potential of the product according to IEC TR 62635

The total potential value of this product is 76.1%.
This potential value takes into account the material recycling and energy recovery.

■ Additional information



This environmental declaration lists the information required in the Annex A and B (substances: criterion 1) 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 version 5.3 of the software EIME with version database CODDE_2018_03. The software is distributed by CODDE which is a subsidiary of Bureau Veritas.

This product follows the rules defined in the PSR-0010-ed1.1-FR-2015 10 16

The whole life cycle has been taken into account:

Step	Geographical representativeness	Scenario
Manufacturing (M)	Production of electronic components : Asia Production of other components and packaging : Asia Assembly : Asia	From the raw material extraction to the last Socomec logistic platform, including packaging
Distribution (D)	Distribution scenario : Europe	From the last Socomec logistic platform to the final customer
Installation (I)	Transport and treatment of packaging wastes : Local	Local road transport of generated wastes to the treatment site, and landfilling
Use phase (U)	Energy mix : Europe Production of maintenance components : analog to manufacturing phase	Power consumption required during 8 years and maintenance according to consumption scenario described on page 3.
End Of Life (EOL)	Transport and treatment : Local	Road transport from the final customer to the treatment sites. End of life treatment.


Environmental impacts of the NETYS RT 3.3kVA

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

Indicators	Unit	Total impact	M	D	I	U	EOL
Contribution to global warming	kg CO ₂ eq.	1,52E+03	1,75E+02	2,09E+01	2,35E+00	1,31E+03	6,43E+00
Contribution to ozone layer depletion	kg CFC11 eq.	1,27E-04	2,83E-05	4,24E-08	3,50E-08	9,89E-05	9,57E-08
Contribution to the soil and water acidification	kg SO ₂ eq.	2,44E+00	7,98E-01	9,39E-02	9,67E-03	1,51E+00	2,65E-02
Contribution to water eutrophication	kg (PO ₄) ³⁻ eq.	5,47E-01	8,25E-02	2,16E-02	6,67E-03	4,18E-01	1,83E-02
Contribution to photochemical ozone formation	kg C ₂ H ₄ eq.	2,24E-01	5,27E-02	6,67E-03	7,22E-04	1,62E-01	1,98E-03
Contribution to the depletion of abiotic resources - elements	kg Sb eq.	9,48E-02	9,44E-02	0*	0*	3,85E-04	0*
Contribution to the depletion of abiotic resources - fossil fuels	MJ	2,07E+04	2,15E+03	2,94E+02	3,33E+01	1,81E+04	9,12E+01
Contribution to water pollution	m ³	1,14E+05	3,78E+04	3,44E+03	3,20E+02	7,19E+04	8,77E+02
Contribution to air pollution	m ³	1,61E+05	6,12E+04	8,57E+02	1,96E+02	9,78E+04	5,36E+02
Use of renewable primary energy (excl. raw materials)	MJ	2,28E+01	0*	3,94E-01	3,72E-01	2,56E+01	1,02E+00
Use of renewable primary energy used as raw materials	MJ	2,03E+02	2,03E+02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,26E+02	1,99E+02	3,94E-01	3,72E-01	2,56E+01	1,02E+00
Use of non-renewable primary energy (excl. raw materials)	MJ	1,65E+05	3,81E+03	2,95E+02	2,87E+01	1,61E+05	7,86E+01
Use of non-renewable primary energy used as raw materials	MJ	1,17E+02	1,17E+02	0*	0*	0*	0*

Total use of non-renewable primary energy resources	MJ	1,65E+05	3,93E+03	2,95E+02	2,87E+01	1,61E+05	7,86E+01
Use of secondary materials	kg	4,53E+00	4,53E+00	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	2,67E+01	1,99E+00	0*	0*	2,47E+01	3,36E-03
Hazardous waste disposed of	kg	2,08E+03	1,62E+02	0*	0*	1,92E+03	0*
Non-hazardous waste disposed of	kg	3,79E+02	2,07E+02	7,43E-01	1,20E+01	1,26E+02	3,28E+01
Radioactive waste disposed of	kg	1,42E+00	1,10E-01	5,29E-04	4,37E-04	1,31E+00	1,20E-03
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for recycling	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,29E-08	4,29E-08	0*	0*	0*	0*
Exported energy	MJ by energy vector	0,00E+00	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	MJ	1,66E+05	4,13E+03	2,96E+02	2,91E+01	1,61E+05	7,96E+01

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).

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Independant verification of the declaration and data, in compliance with ISO 14025 : 2010	
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The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 :2014	
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 declarations »	

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