



www.raritan.com/eu

### **Product Environmental Profile**

## RARITAN NX1 METERED CONFIGURED TO ORDER PDU





#### ■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites
- Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design and provide informations in compliance with ISO 14025

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



#### ■ REFERENCE PRODUCT ■

Function	Distribute electrical power for IT equipment via a PDU for 10 years using standardised sockets (Standard IEC/TR 60083).					
Reference Product	Cat.No RR900590					
	PDU HD METERED NODE 0U, 3 PHASE 32A, 36 C13 + 12 C19 LOCKING OUTLETS					

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



#### **■ PRODUCTS CONCERNED**

The environmental data is representative of the following products:

#### **Catalogue Numbers**

Products be configured at the customer's request. Products included into generic references RR900590\_RR900592. The configuration scenario was built with the Marketing department on the basis of a nomenclature representative of the outline of the On Demand offer.





www.raritan.com/eu

### **Product Environmental Profile**

## RARITAN NX1 METERED CONFIGURED TO ORDER PDU





#### **■ CONSTITUENT MATERIALS I**

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	11.22 kg (all packaging included)

Product alone weight 6.14 kg								
Plastics as % of weight		Metals as % of weight		Other as % of weight				
Other plastics	9.8 %	Copper and copper alloys	12.3 %	Electrical wire (high current)	4.6 %			
PC	7.5 %	Al	11.0 %	PWB > 10cm <sup>2</sup>	1.6 %			
PA	3.6 %	Steel	2.1 %	Various others	<0.1 %			
ABS	1.4 %	Others metals	0.8 %					
PVC	<0.1 %	Various metals	<0.1 %					
Various plastics	<0.1 %							

Packaging (alone): 5.08 kg							
PE	0.1 %		Cardboard	33.1 %			
			Wood	11.9 %			
			Paper	0.3 %			

Total plastics : 2.52 kg	22.5 % Total metals : 2.93 kg	26.1 % Total others : 5.78 kg	51.4 %
--------------------------	-------------------------------	-------------------------------	--------

At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 11 % by mass
- Packaging only: 63 % by mass



#### MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.



#### **■** DISTRIBUTION **■**

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 3 500 Km by truck from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste.



#### **■ INSTALLATION**

For the installation of the product, only standard tools are needed.



#### USE STATE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.





www.raritan.com/eu

### **Product Environmental Profile**

## RARITAN NX1 METERED CONFIGURED TO ORDER PDU





#### ■ END OF LIFE I

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

#### - Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

 $-PWB > 10cm^2 : 183 g$ 

#### • Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end of life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.



#### ■ ENVIRONMENTAL IMPACTS ■

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. Ilt is representative from products marketed and used in Europe, in compliance with the local current standards.

For each phase, the following modelling elements were taken in account:

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.				
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.				
n Limit	Installation A5	The end of life of the packaging.				
System	<ul> <li>Use         <ul> <li>Product category: PDU_Power Distribution Unit.</li> <li>Use scenario: Continuous operation (100% of the time) for 10 years at 25% of rated load. This modelling pe constitute a maximum durability requirement.</li> <li>Energy model: Electricity Mix_Low voltage_2018_Europe_EU-27.</li> </ul> </li> </ul>					
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.				
D Module		Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario.  It expresses the net benefits and loads beyond the boundaries of the system, and are not to be included in the life cycle totals.				
	vare and data- used	The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEP ed.4, EN15804+A2) v2.0 » EIME V6 & its database CODDE-2023-02				

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



#### Raritan Europe B.V.

Jan van Galenstraat 59 3115 JG Schiedam The Netherlands



www.raritan.com/eu

### **Product Environmental Profile**

#### **RARITAN NX1 METERED CONFIGURED TO ORDER PDU**





#### **■ ENVIRONMENTAL IMPACTS**

	Total Life Cycle		Manufacturing Distribution Installation		Installation	nstallation Use <sup>(1)</sup>			
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Climate change - total	2.62E+02	kg CO <sub>2</sub> eq.	6.54E+01	1.99E+00	4.23E-01	1.85E+02	0.00E+00	1.85E+02	8.79E+00
Climate change - fossil fuels	2.59E+02	kg CO <sub>2</sub> eq.	6.39E+01	1.99E+00	4.23E-01	1.85E+02	0.00E+00	1.85E+02	7.87E+00
Climate change - biogenics	2.68E+00	kg CO <sub>2</sub> eq.	1.52E+00	0.00E+00	0*	2.47E-01	0.00E+00	2.47E-01	9.14E-01
Climate change - land use and land use transformation	1.45E-03	kg CO <sub>2</sub> eq.	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-06
Ozone depletion	8.37E-06	kg CFC-11 eq.	7.36E-06	3.04E-09	8.09E-09	7.91E-07	0.00E+00	7.91E-07	2.02E-07
Acidification (AP)	1.76E+00	mole of H+ eq.	6.58E-01	1.26E-02	3.78E-03	1.06E+00	0.00E+00	1.06E+00	2.85E-02
Freshwater eutrophication	8.02E-03	kg P eq.	2.05E-03	0*	1.04E-06	5.06E-04	0.00E+00	5.06E-04	5.47E-03
Marine aquatic eutrophication	1.94E-01	kg of N eq.	6.24E-02	5.89E-03	1.78E-03	1.20E-01	0.00E+00	1.20E-01	3.65E-03
Terrestrial eutrophication	2.61E+00	mole of N eq.	6.77E-01	6.46E-02	1.86E-02	1.80E+00	0.00E+00	1.80E+00	4.72E-02
Photochemical ozone formation	6.45E-01	kg NMVOC eq.	2.27E-01	1.63E-02	4.52E-03	3.85E-01	0.00E+00	3.85E-01	1.21E-02
Depletion of abiotic resources - elements	4.96E-03	kg Sb eq.	4.77E-03	0*	0*	1.34E-05	0.00E+00	1.34E-05	1.73E-04
Depletion of abiotic resources - fossil fuels	6.01E+03	МЈ	1.19E+03	2.77E+01	4.75E+00	4.71E+03	0.00E+00	4.71E+03	7.84E+01
Water requirement	4.17E+01	m³ deprivation worldwide eq.	2.94E+01	7.54E-03	4.69E-01	6.54E+00	0.00E+00	6.54E+00	5.27E+00
Emission of fine particles	1.26E-05	incidence of diseases	4.11E-06	1.02E-07	2.00E-08	8.19E-06	0.00E+00	8.19E-06	1.64E-07

#### Module D

3.81E+02
3.81E+02
-3.71E-02
0.00E+00
5.77E-05
2.05E+00
5.86E-03
4.24E-01
4.59E+00
1.47E+00
6.25E+03
7.35E+02
1.00E-05

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

PEP ecopassport n° LGRP-01900-V01.01-EN Page 4 / 7

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table



Raritan Europe B.V.

Jan van Galenstraat 59 3115 JG Schiedam The Netherlands



www.raritan.com/eu

### **Product Environmental Profile**

#### **RARITAN NX1 METERED CONFIGURED TO ORDER PDU**



	Total Life Cycle		Manufacturing	Distribution	Installation		Use <sup>(1)</sup>		End of Life	
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4	
Ionizing radiation, human health	7.11E+02	kBq of U235 eq.	4.36E+02	0*	0*	2.75E+02	0.00E+00	2.75E+02	4.12E-01	
Ecotoxicity (fresh water)	4.53E+04	CTUe	1.52E+04	0*	3.06E+01	1.99E+03	0.00E+00	1.99E+03	2.80E+04	
Human toxicity, carcinogenic effects	2.31E-05	CTUh	2.30E-05	0*	4.05E-08	2.16E-08	0.00E+00	2.16E-08	1.24E-08	
Human toxicity, non-carcinogenic effects	6.44E-06	CTUh	4.82E-06	3.77E-09	1.41E-08	8.55E-07	0.00E+00	8.55E-07	7.42E-07	
Impacts related to land use/soil quality	2.90E+01	-	9.23E+00	0.00E+00	0.00E+00	3.68E+00	0.00E+00	3.68E+00	1.61E+01	
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	9.42E+02	МЈ	3.33E+01	0*	0*	9.05E+02	0.00E+00	9.05E+02	4.43E+00	
Use of renewable primary energy resources used as raw materials	4.41E+01	МЈ	4.41E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	9.87E+02	мл	7.75E+01	0*	0*	9.05E+02	0.00E+00	9.05E+02	4.43E+00	
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	5.88E+03	мЈ	1.06E+03	2.77E+01	4.75E+00	4.71E+03	0.00E+00	4.71E+03	7.84E+01	
Use of non-renewable primary energy resources used as raw materials	1.22E+02	МЈ	1.22E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	6.01E+03	МЈ	1.19E+03	2.77E+01	4.75E+00	4.71E+03	0.00E+00	4.71E+03	7.84E+01	

Module D -2.31E+02 6.69E+03 -8.89E-06 4.62E-04 0.00E+00 2.78E+02 3.81E-01 2.78E+02 6.04E+03 2.13E+02 6.25E+03

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

PEP ecopassport n° LGRP-01900-V01.01-EN Page 5 / 7

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table



#### Raritan Europe B.V.

Jan van Galenstraat 59 3115 JG Schiedam The Netherlands



www.raritan.com/eu

### **Product Environmental Profile**

#### **RARITAN NX1 METERED CONFIGURED TO ORDER PDU**



	Total Life Cycle		Manufacturing	Manufacturing Distribution Installation Use <sup>(1)</sup>					End of Life
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Use of secondary materials	4.16E+00	kg	4.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	МЈ	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	0.00E+00	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 fresh water	9.15E-01	m³	6.29E-01	1.75E-04	1.09E-02	1.52E-01	0.00E+00	1.52E-01	1.23E-01
Hazardous waste disposed of	1.90E+02	kg	1.81E+02	0.00E+00	0*	3.45E+00	0.00E+00	3.45E+00	5.53E+00
Non-hazardous waste disposed of	8.09E+01	kg	4.57E+01	6.97E-02	5.09E+00	2.66E+01	0.00E+00	2.66E+01	3.37E+00
Radioactive waste disposed of	4.43E-02	kg	3.81E-02	4.96E-05	9.10E-06	5.57E-03	0.00E+00	5.57E-03	6.37E-04
Components for re-use	0.00E+00	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	2.59E+00	kg	6.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+00
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	6.99E+03	MJ	1.26E+03	2.77E+01	4.76E+00	5.62E+03	0.00E+00	5.62E+03	8.28E+01

Module D
0.00E+00
0.00E+00
0.00E+00
1.71E+01
9.39E+04
4.24E+01
2.76E-02
0.00E+00
0.00E+00
0.00E+00
0.00E+00

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00						
Biogenic carbon content of the associated packaging	1.57E+00	kg of C	1.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.00E+00

6.53E+03

For biogenic carbon storage, the methodology use is 0/0

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product. For products included into generic references RR900590\_RR900592, impacts calculated refleat a configuration representative of the On Demand offer.

PEP ecopassport n° LGRP-01900-V01.01-EN Page 6 / 7

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table





www.raritan.com/eu

## **Product Environmental Profile**

# RARITAN NX1 METERED CONFIGURED TO ORDER PDU



Registration number: LGRP-01900-V01.01-EN	Drafting rules: PEP-PCR-ed4-2021 09 06				
Verifier accreditation N°: VH43	Information and reference documents: www.pep-ecopassport.org				
Date of issue: <b>03-2024</b>	Validity period: 5 years				
Independent verification of the declaration and data, in complian	ce with ISO 14025 : 2006				
Internal   External   External					
The PCR review was conducted by a panel of experts chaired by Julie OR	GELET (DDemain)				
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019 The elements of the present PEP cannot be compared with elements from	PASS				
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations.  Type III environmental declarations»					

Environmental data in alignment with EN 15804: 2012 + A2: 2019