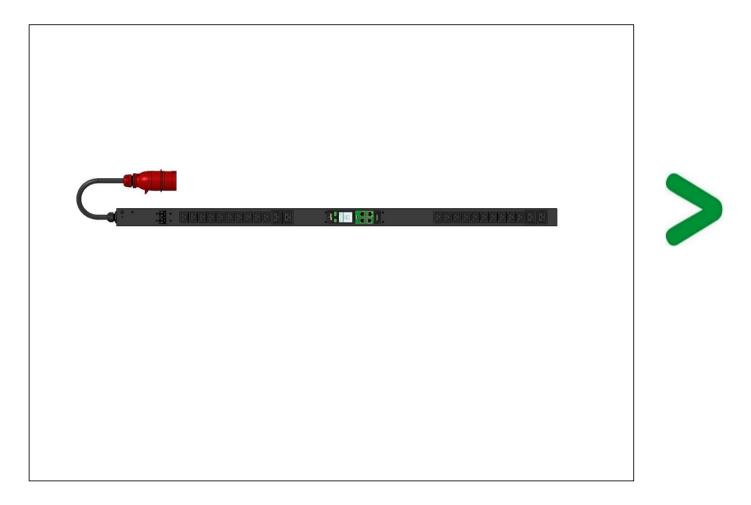
Product Environmental Profile

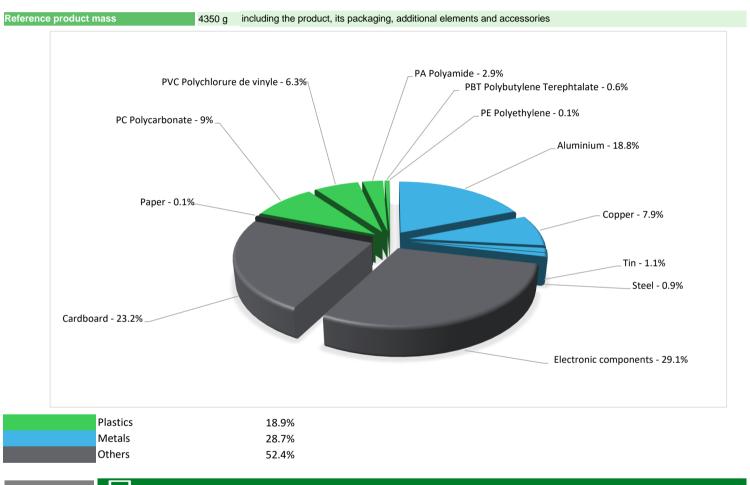
Easy PDU





General information										
Reference product	Easy PDU Metered Zero U 32A 230V (20)C13 (4)C19 IEC309 - EPDU2132M									
Description of the product	Easy PDU provides reliable rack power distribution units that offer more than a power strip for server rack and network rack solutions.									
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.Easy Rack PDU The products of the range are: EPDU2016M, EPDU2016S, EPDU2116M, EPDU2116S, EPDU2132M, EPDU2132S, EPDU2216M, EPDU2216S, EPDU2232M, EPDU2232S, EPDU2232SX3620									
Functional unit	To provide rack power distribution via a IEC60309 L+N+PE inlet with 20 C13 and 4C19 outlets and distributes power up to 1- phase 32A. And to provide active metering of PDU outlets to enable energy optimization, during 10 years.									

Constituent materials



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website https://www.se.com

	েড়ি Additional environmental information								
End Of Life	Recyclability potential:	45%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).						

6

Reference service life time	10 years										
Product category	Combinitions of functions	Combinitions of functions									
Life cycle of the product	The manufacturing, the distribution, the installation	on, the use and the end of life we	ere taken into consideration in th	nis study							
Electricity consumtion	The electricity consumed during manufacturing pr a negligable consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates In negligable consumption									
Installation elements	The product does not require any installation ope	rations.									
Use scenario	The product is in active mode 80% of the time with a power use of 10.18W and in sleep mode 20% of the time with a power use of 8.98W, for 10 years.										
Time representativeness	The collected data are representative of the year	2024									
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LC EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product.										
Geographical	Final assembly site Use phase End-of-life										
representativeness	China Europe Europe										
	[A1 - A3]	[A5]	[C1 - C4]								
Energy model used	Electricity Mix; Low voltage; 2020; China, CN										

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		Easy PDU Metered Zero U 32A 230V (20)C13 (4)C19 IEC309 - EPDU2132M									
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads			
Contribution to climate change	kg CO2 eq	3.75E+02	4.95E+01	8.62E+00	1.07E+00	3.07E+02	8.62E+00	-5.20E+00			
Contribution to climate change-fossil	kg CO2 eq	3.74E+02	4.91E+01	8.62E+00	1.02E+00	3.06E+02	8.49E+00	-6.23E+00			
Contribution to climate change-biogenic	kg CO2 eq	1.11E+00	3.57E-01	0*	5.07E-02	5.65E-01	1.33E-01	1.03E+00			
Contribution to climate change-land use and land use change	kg CO2 eq	5.95E-04	5.93E-04	0*	0*	0*	2.15E-06	0.00E+00			
Contribution to ozone depletion	kg CFC-11 eq	2.10E-05	1.18E-05	7.58E-06	1.38E-08	1.49E-06	1.05E-07	-1.62E-06			
Contribution to acidification	mol H+ eq	2.08E+00	4.42E-01	3.55E-02	3.13E-03	1.57E+00	2.91E-02	-1.30E-01			
Contribution to eutrophication, freshwater	kg P eq	5.32E-03	4.20E-04	1.01E-06	2.45E-05	8.08E-04	4.06E-03	-2.95E-05			
Contribution to eutrophication, marine	kg N eq	2.66E-01	5.20E-02	1.61E-02	1.36E-03	1.92E-01	5.38E-03	-5.31E-03			
Contribution to eutrophication, terrestrial	mol N eq	3.88E+00	5.58E-01	1.75E-01	9.46E-03	3.08E+00	6.36E-02	-5.55E-02			
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.70E-01	1.89E-01	5.84E-02	2.17E-03	6.03E-01	1.74E-02	-2.43E-02			
Contribution to resource use, minerals and metals	kg Sb eq	4.19E-03	3.95E-03	0*	0*	1.09E-04	1.32E-04	-1.45E-03			
Contribution to resource use, fossils	MJ	8.92E+03	8.44E+02	1.07E+02	1.06E+01	7.75E+03	2.08E+02	-9.15E+01			
Contribution to water use	m3 eq	4.65E+01	1.78E+01	4.36E-01	8.24E-02	2.35E+01	4.68E+00	-7.04E+00			

Inventory flows Indicators					Easy PDU Metered Zero U 32A 230V (20)C13 (4)C19 IEC309 - EPDU2132M									
Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads							
MJ	2.06E+03	9.45E+00	0*	1.39E+00	2.05E+03	3.22E+00	3.59E-01							
MJ	2.40E+01	2.40E+01	0*	0*	0*	0*	-1.48E+01							
MJ	2.09E+03	3.35E+01	0*	1.39E+00	2.05E+03	3.22E+00	-1.44E+01							
MJ	8.87E+03	7.94E+02	1.07E+02	1.06E+01	7.75E+03	2.08E+02	-9.15E+01							
MJ	4.97E+01	4.97E+01	0*	0*	0*	0*	0.00E+00							
MJ	8.92E+03	8.44E+02	1.07E+02	1.06E+01	7.75E+03	2.08E+02	-9.15E+01							
kg	1.10E-05	1.10E-05	0*	0*	0*	0*	0.00E+00							
MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00							
MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00							
m³	1.09E+00	4.13E-01	1.02E-02	1.92E-03	5.52E-01	1.09E-01	-1.64E-01							
kg	9.00E+01	7.55E+01	0*	2.66E-02	1.35E+01	1.00E+00	-1.22E+02							
kg	1.11E+02	5.78E+01	0*	4.57E-01	5.18E+01	1.42E+00	-2.17E+00							
kg	3.77E-02	2.39E-02	1.71E-03	5.65E-05	1.19E-02	2.11E-04	-1.08E-03							
kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00							
kg	1.64E+00	1.56E-01	0*	0*	0*	1.48E+00	0.00E+00							
kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00							
MJ	5.69E-02	1.61E-03	0*	4.36E-02	0*	1.17E-02	0.00E+00							
	MJ Kg	Unit Module D) MJ 2.06E+03 MJ 2.40E+01 MJ 2.09E+03 MJ 2.09E+03 MJ 2.09E+03 MJ 8.87E+03 MJ 4.97E+01 MJ 8.92E+03 MJ 0.00E+00 MJ 0.00E+00 MJ 0.00E+00 MJ 0.00E+00 MJ 0.00E+01 kg 1.11E+02 kg 3.77E-02 kg 0.00E+00 kg 1.64E+00 kg 0.00E+00 kg 0.00E+00 kg 0.00E+00	Unit Total (without Module D) [A1 - A3] - Manufacturing MJ 2.06E+03 9.45E+00 MJ 2.40E+01 2.40E+01 MJ 2.09E+03 3.35E+01 MJ 2.09E+03 3.35E+01 MJ 2.09E+03 3.35E+01 MJ 8.87E+03 7.94E+02 MJ 8.92E+03 8.44E+02 MJ 8.92E+03 8.44E+02 MJ 0.00E+00 0° kg 1.11E+02 5.78E+01 kg 0.00E+00 0° kg 0.00E+00 0° kg 0.00E+00 0° kg 0.00E+00 0° kg 0.00E+00 0°	Unit Total (without Module D) [A1 - A3]- Manufacturing [A4] - Distribution MJ 2.06E+03 9.45E+00 0* MJ 2.40E+01 2.40E+01 0* MJ 2.09E+03 3.35E+01 0* MJ 2.09E+03 3.35E+01 0* MJ 8.87E+03 7.94E+02 1.07E+02 MJ 4.97E+01 4.97E+01 0* MJ 8.92E+03 8.44E+02 1.07E+02 kg 1.10E-05 1.10E-05 0* MJ 0.00E+00 0* 0* kg 0.00E+00 0* 0* kg	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation MJ 2.06E+03 9.45E+00 0* 1.39E+00 MJ 2.40E+01 2.40E+01 0* 0* MJ 2.09E+03 3.35E+01 0* 1.39E+00 MJ 2.09E+03 3.35E+01 0* 1.39E+00 MJ 8.87E+03 7.94E+02 1.07E+02 1.06E+01 MJ 4.97E+01 4.97E+01 0* 0* MJ 8.92E+03 8.44E+02 1.07E+02 1.06E+01 kg 1.10E-05 1.10E-05 0* 0* MJ 0.00E+00 0* 0* 4.57E-01 kg 1.11E+02 5.78E+01 0* 4.56E-05 </td <td>Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use MJ 2.06E+03 9.45E+00 0* 1.39E+00 2.05E+03 MJ 2.40E+01 2.40E+01 0* 0* 0* MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 MJ 8.87E+03 7.94E+02 1.07E+02 1.06E+01 7.75E+03 MJ 4.97E+01 4.97E+01 0* 0* 0* 0* MJ 8.92E+03 8.44E+02 1.07E+02 1.06E+01 7.75E+03 Kg 1.10E-05 0* 0* 0* 0* MJ 0.00E+00 0*</td> <td>Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use [C1 - C4] - End of life MJ 2.06E+03 9.45E+00 0* 1.39E+00 2.05E+03 3.22E+00 MJ 2.40E+01 2.40E+01 0* 0* 0* 0* 0* MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 3.22E+00 MJ 8.87E+03 7.94E+02 1.07E+02 1.06E+01 7.75E+03 2.08E+02 MJ 4.97E+01 4.97E+01 0* 0* 0* 0* MJ 8.92E+03 8.44E+02 1.07E+02 1.06E+01 7.75E+03 2.08E+02 MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* <t< td=""></t<></td>	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use MJ 2.06E+03 9.45E+00 0* 1.39E+00 2.05E+03 MJ 2.40E+01 2.40E+01 0* 0* 0* MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 MJ 8.87E+03 7.94E+02 1.07E+02 1.06E+01 7.75E+03 MJ 4.97E+01 4.97E+01 0* 0* 0* 0* MJ 8.92E+03 8.44E+02 1.07E+02 1.06E+01 7.75E+03 Kg 1.10E-05 0* 0* 0* 0* MJ 0.00E+00 0*	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use [C1 - C4] - End of life MJ 2.06E+03 9.45E+00 0* 1.39E+00 2.05E+03 3.22E+00 MJ 2.40E+01 2.40E+01 0* 0* 0* 0* 0* MJ 2.09E+03 3.35E+01 0* 1.39E+00 2.05E+03 3.22E+00 MJ 8.87E+03 7.94E+02 1.07E+02 1.06E+01 7.75E+03 2.08E+02 MJ 4.97E+01 4.97E+01 0* 0* 0* 0* MJ 8.92E+03 8.44E+02 1.07E+02 1.06E+01 7.75E+03 2.08E+02 MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* 0* MJ 0.00E+00 0* 0* 0* 0* <t< td=""></t<>							

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

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	2.80E-01

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Impact indicators Unit [B1 - B7] - Use [B1] [B2] [B3] [B4] [B5] [B6] [B7] Contribution to climate change kg CO2 eq 3.07E+02 0* 0* 0* 0* 0* 0* 0* 3.07E+02 0* Contribution to climate change-fossil kg CO2 eq 3.06E+02 0* <th>Mandatory Indicators</th> <th colspan="6">Mandatory Indicators</th> <th>20)C13 (4</th> <th>)C19 IEC309 - E</th> <th>PDU2132M</th>	Mandatory Indicators	Mandatory Indicators						20)C13 (4)C19 IEC309 - E	PDU2132M
Contribution to climate change-fossilkg CO2 eq3.06E+020*0*0*0*0*3.06E+020*Contribution to climate change-biogenickg CO2 eq5.65E-010*0*0*0*0*5.65E-010*Contribution to climate change-land use and land use changekg CO2 eq0*0*0*0*0*0*0*0*0*Contribution to climate change-land use and land use changekg CO2 eq0*0*0*0*0*0*0*0*0*0*Contribution to ozone depletionkg CFC-11 eq1.49E-060*0*0*0*0*0*0*0*0*0*Contribution to acidificationmol H+ eq1.57E+000*<	Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change-biogenickg CO2 eq5.65E-010*0*0*0*0*0*0*0*Contribution to climate change-land use and land use changekg CO2 eq0* </td <td>Contribution to climate change</td> <td>kg CO2 eq</td> <td>3.07E+02</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>3.07E+02</td> <td>0*</td>	Contribution to climate change	kg CO2 eq	3.07E+02	0*	0*	0*	0*	0*	3.07E+02	0*
Contribution to climate change-land use and land use changekg CO2 eq0*<	Contribution to climate change-fossil	kg CO2 eq	3.06E+02	0*	0*	0*	0*	0*	3.06E+02	0*
Contribution to ozone depletionkg CFC-11 eq1.49E-060*0*0*0*0*1.49E-060*Contribution to acidificationmol H+ eq1.57E+000*0*0*0*0*0*0*0*Contribution to acidificationmol H+ eq1.57E+000*0*0*0*0*0*0*0*0*Contribution to eutrophication, freshwaterkg P eq8.08E-040*0*0*0*0*8.08E-040*Contribution to eutrophication marinekg N eq1.92E-010*0*0*0*0*1.92E-010*Contribution to eutrophication, terrestrialmol N eq3.08E+000*0*0*0*0*3.08E+000*Contribution to photochemical ozone formation - human healthkg COVNM eq6.03E-010*0*0*0*0*0*0*Contribution to resource use, minerals and metalskg Sb eq1.09E-040*0*0*0*0*0*0*Contribution to resource use, fossilsMJ7.75E+030*0*0*0*0*0*0*0*0*	Contribution to climate change-biogenic	kg CO2 eq	5.65E-01	0*	0*	0*	0*	0*	5.65E-01	0*
Contribution to ozone depietion a_{eq} $1.49E-06$ 0^{*} 0^{*} 0^{*} 0^{*} 0^{*} $1.49E-06$ 0^{*} Contribution to acidificationmol H+ eq $1.57E+00$ 0^{*} <td>Contribution to climate change-land use and land use change</td> <td>kg CO2 eq</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td> <td>0*</td>	Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwaterkg P eq $8.08E-04$ 0^* <	Contribution to ozone depletion	•	1.49E-06	0*	0*	0*	0*	0*	1.49E-06	0*
Contribution to eutrophication marine kg N eq 1.92E-01 0* 0* 0* 0* 0* 1.92E-01 0* Contribution to eutrophication, terrestrial mol N eq 3.08E+00 0* 0	Contribution to acidification	mol H+ eq	1.57E+00	0*	0*	0*	0*	0*	1.57E+00	0*
Contribution to eutrophication, terrestrialmol N eq3.08E+000*<	Contribution to eutrophication, freshwater	kg P eq	8.08E-04	0*	0*	0*	0*	0*	8.08E-04	0*
Contribution to photochemical ozone formation - human health kg COVNM eq 6.03E-01 0* <t< td=""><td>Contribution to eutrophication marine</td><td>kg N eq</td><td>1.92E-01</td><td>0*</td><td>0*</td><td>0*</td><td>0*</td><td>0*</td><td>1.92E-01</td><td>0*</td></t<>	Contribution to eutrophication marine	kg N eq	1.92E-01	0*	0*	0*	0*	0*	1.92E-01	0*
Contribution to resource use, minerals and metalskg Sb eq $1.09E-04$ 0^* $0^$	Contribution to eutrophication, terrestrial	mol N eq	3.08E+00	0*	0*	0*	0*	0*	3.08E+00	0*
Contribution to resource use, fossils MJ 7.75E+03 0* 0* 0* 0* 0* 7.75E+03 0*	Contribution to photochemical ozone formation - human health		6.03E-01	0*	0*	0*	0*	0*	6.03E-01	0*
	Contribution to resource use, minerals and metals	kg Sb eq	1.09E-04	0*	0*	0*	0*	0*	1.09E-04	0*
	Contribution to resource use, fossils	MJ	7.75E+03	0*	0*	0*	0*	0*	7.75E+03	0*
Contribution to water use m3 eq 2.35E+01 0* 0* 0* 0* 0* 0* 2.35E+01 0*	Contribution to water use	m3 eq	2.35E+01	0*	0*	0*	0*	0*	2.35E+01	0*

Inventory flows Indicators			Easy	/ PDU Metered Z	Zero U 32/	A 230V (2	20)C13 (4)C19 IEC309 - E	PDU2132M
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.05E+03	0*	0*	0*	0*	0*	2.05E+03	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	2.05E+03	0*	0*	0*	0*	0*	2.05E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.75E+03	0*	0*	0*	0*	0*	7.75E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	7.75E+03	0*	0*	0*	0*	0*	7.75E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	5.52E-01	0*	0*	0*	0*	0*	5.52E-01	0*
Contribution to hazardous waste disposed	kg	1.35E+01	0*	0*	0*	0*	0*	1.35E+01	0*
Contribution to non hazardous waste disposed	kg	5.18E+01	0*	0*	0*	0*	0*	5.18E+01	0*
Contribution to radioactive waste disposed	kg	1.19E-02	0*	0*	0*	0*	0*	1.19E-02	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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 :	ENVPEP2412049_V1	Drafting rules	PEP-PCR-ed4-2021 09 06						
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08						
Date of issue	01-2025	Information and reference documents	www.pep-ecopassport.org						
		Validity period	5 years						
Independent verification of the de	eclaration and data, in compliance with ISO 14021 : 2016								
Internal X	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 and EN 50693:2019 or NF E38-500 :2022									
The components of the present PEP may not be compared with components from any other program.									
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"									

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