Product Environmental Profile

Schneider OffGrid Portable Power Station







General information

Reference product	Schneider OffGrid Portable Power Station - PPS330
Description of the product	Portable Power Station are designed to power smaller electonic devices and appliances, from phones and table fans to heavy-duty work lights and CPAP machines.
Description of the range	The products of the range are: Schneider OffGrid Portable Power Station 300W/500W/700W 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.
Functional unit	To ensure the supply of power without interruption to equipment with load of 300 watts, including a backup time capacity of 30 minutes during power shortages, for 5 years.

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Constituent materials

PE Polyethylene - 1.1%

PC Polycarbonate - 21.7%

Wood - 1.1%

Cardboard - 31.2%

Including the product, its packaging and additional elements and accessories

Stainless steel - 0.4%

Brass - 0.3%

Electronic components - 44.2%

Plastics 22.80%

Metals 0.70%

Others 76.50%

E | Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life

Recyclability potential:

3%

The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Tenvironmental impacts

Reference service life time	5 years										
Installation elements	The product does not require any installation ope	The product does not require any installation operations.									
Use scenario	The product is in active mode 15% of the time with a power use of 11.9W, in stand-by mode 5% of the time with a power use of 2.6W and in Sleep mode 80% of the time with a power use of 0.0035W, for 5 years.										
Time representativeness	The collected data are representative of the year	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 (LCA EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product.										
Geographical representativeness	North America										
	[A1 - A3] [A5] [B6] [C1 - C4]										
Energy model used	Electricity Mix; High voltage; 2018; China, CN	Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US	Electricity Mix; Low voltage; 2018; United States, US							

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.schneiderelectric.com/contact

Mandatory Indicators	Schneider OffGrid Portable Power Station - PPS330									
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	1.56E+02	8.98E+01	1.04E+01	3.39E-01	4.59E+01	9.78E+00	-2.99E-01		
Contribution to climate change-fossil	kg CO2 eq	1.55E+02	8.93E+01	1.04E+01	2.43E-01	4.59E+01	9.59E+00	-2.87E-01		
Contribution to climate change-biogenic	kg CO2 eq	9.17E-01	5.83E-01	0*	9.61E-02	4.85E-02	1.90E-01	-1.19E-02		
Contribution to climate change-land use and land use change	kg CO2 eq	1.76E-03	1.76E-03	0*	0*	0*	2.05E-07	0.00E+00		
Contribution to ozone depletion	kg CFC-11 eq	5.35E-05	4.41E-05	9.14E-06	0*	1.95E-07	1.85E-08	-8.92E-08		
Contribution to acidification	mol H+ eq	8.48E-01	5.53E-01	4.27E-02	8.88E-04	2.43E-01	8.31E-03	-1.08E-02		
Contribution to eutrophication, freshwater	kg (PO4)³-eq	2.35E-02	2.30E-02	0*	0*	7.08E-05	4.37E-04	-6.72E-07		
Contribution to eutrophication marine	kg N eq	1.68E-01	1.16E-01	1.94E-02	4.08E-04	2.89E-02	3.34E-03	-2.36E-04		
Contribution to eutrophication, terrestrial	mol N eq	1.45E+00	8.59E-01	2.11E-01	4.24E-03	3.39E-01	3.51E-02	-2.73E-03		
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.58E-01	2.82E-01	7.03E-02	1.00E-03	9.58E-02	8.57E-03	-1.50E-03		
Contribution to resource use, minerals and metals	kg Sb eq	5.34E-03	5.33E-03	0*	0*	1.85E-06	1.23E-05	-1.02E-04		
Contribution to resource use, fossils	MJ	2.23E+03	1.10E+03	1.29E+02	7.99E-01	9.74E+02	2.05E+01	-4.37E+00		
Contribution to water use	m3 eq	6.59E+02	6.56E+02	5.25E-01	1.73E-01	1.65E+00	7.11E-01	-5.40E-01		

Inventory flows Indicators	Schneider OffGrid Portable Power Station - PPS330								
Inventory flows	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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.37E+02	1.46E+01	0*	0*	1.22E+02	3.25E-01	-2.63E-01	
Contribution to use of renewable primary energy resources used as raw material	MJ	3.87E+01	3.87E+01	0*	0*	0*	0*	0.00E+00	
Contribution to total use of renewable primary energy resources	MJ	1.76E+02	5.33E+01	0*	0*	1.22E+02	3.25E-01	-2.63E-01	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.16E+03	1.04E+03	1.29E+02	7.99E-01	9.74E+02	2.05E+01	-4.37E+00	
Contribution to use of non renewable primary energy resources used as raw material	MJ	6.66E+01	6.66E+01	0*	0*	0*	0*	0.00E+00	
Contribution to total use of non-renewable primary energy resources	MJ	2.23E+03	1.10E+03	1.29E+02	7.99E-01	9.74E+02	2.05E+01	-4.37E+00	
Contribution to use of secondary material	kg	3.02E-05	3.02E-05	0*	0*	0*	0*	0.00E+00	
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to net use of freshwater	m³	1.54E+01	1.53E+01	1.22E-02	4.03E-03	3.84E-02	1.65E-02	-1.26E-02	
Contribution to hazardous waste disposed	kg	5.23E+02	5.20E+02	0*	0*	8.98E-01	1.97E+00	-8.93E+00	
Contribution to non hazardous waste disposed	kg	1.03E+02	9.31E+01	1.05E-02	1.73E+00	6.78E+00	1.46E+00	-6.54E-02	

Contribution to radioactive waste disposed	kg	3.59E-02	3.25E-02	2.06E-03	5.32E-06	1.28E-03	5.84E-05	-3.70E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	9.89E-02	6.50E-03	0*	0*	0*	9.24E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	5.97E-03	5.64E-03	0*	0*	0*	3.30E-04	0.00E+00

^{*} 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 4.72E-01

Mandatory Indicators					Schneider OffGrid Portable Power Station - PPS330				
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4.59E+01	0*	0*	0*	0*	0*	4.59E+01	0*
Contribution to climate change-fossil	kg CO2 eq	4.59E+01	0*	0*	0*	0*	0*	4.59E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	4.85E-02	0*	0*	0*	0*	0*	4.85E-02	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.95E-07	0*	0*	0*	0*	0*	1.95E-07	0*
Contribution to acidification	mol H+ eq	2.43E-01	0*	0*	0*	0*	0*	2.43E-01	0*
ontribution to eutrophication, freshwater	kg (PO4)³- eq	7.08E-05	0*	0*	0*	0*	0*	7.08E-05	0*
ontribution to eutrophication marine	kg N eq	2.89E-02	0*	0*	0*	0*	0*	2.89E-02	0*
ntribution to eutrophication, terrestrial	mol N eq	3.39E-01	0*	0*	0*	0*	0*	3.39E-01	0*
ontribution to photochemical ozone formation - human health	kg COVNM eq	9.58E-02	0*	0*	0*	0*	0*	9.58E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.85E-06	0*	0*	0*	0*	0*	1.85E-06	0*
entribution to resource use, fossils	MJ	9.74E+02	0*	0*	0*	0*	0*	9.74E+02	0*
ontribution to water use	m3 eq	1.65E+00	0*	0*	0*	0*	0*	1.65E+00	0*

Inventory flows Indicators					Schneider OffGrid Portable Power Station - PPS330)
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	1.22E+02	0*	0*	0*	0*	0*	1.22E+02	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	1.22E+02	0*	0*	0*	0*	0*	1.22E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.74E+02	0*	0*	0*	0*	0*	9.74E+02	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	9.74E+02	0*	0*	0*	0*	0*	9.74E+02	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	3.84E-02	0*	0*	0*	0*	0*	3.84E-02	0*
Contribution to hazardous waste disposed	kg	8.98E-01	0*	0*	0*	0*	0*	8.98E-01	0*
Contribution to non hazardous waste disposed	kg	6.78E+00	0*	0*	0*	0*	0*	6.78E+00	0*
Contribution to radioactive waste disposed	kg	1.28E-03	0*	0*	0*	0*	0*	1.28E-03	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*

 $^{^{\}star}$ represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 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.

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		Supplemented by	No PSR						
Date of issue	07-2024	Information and reference documents	www.pep-ecopassport.org						
		Validity period	5 years						
Independent verification of the	declaration 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									

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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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