

Product Environmental Profile

Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW





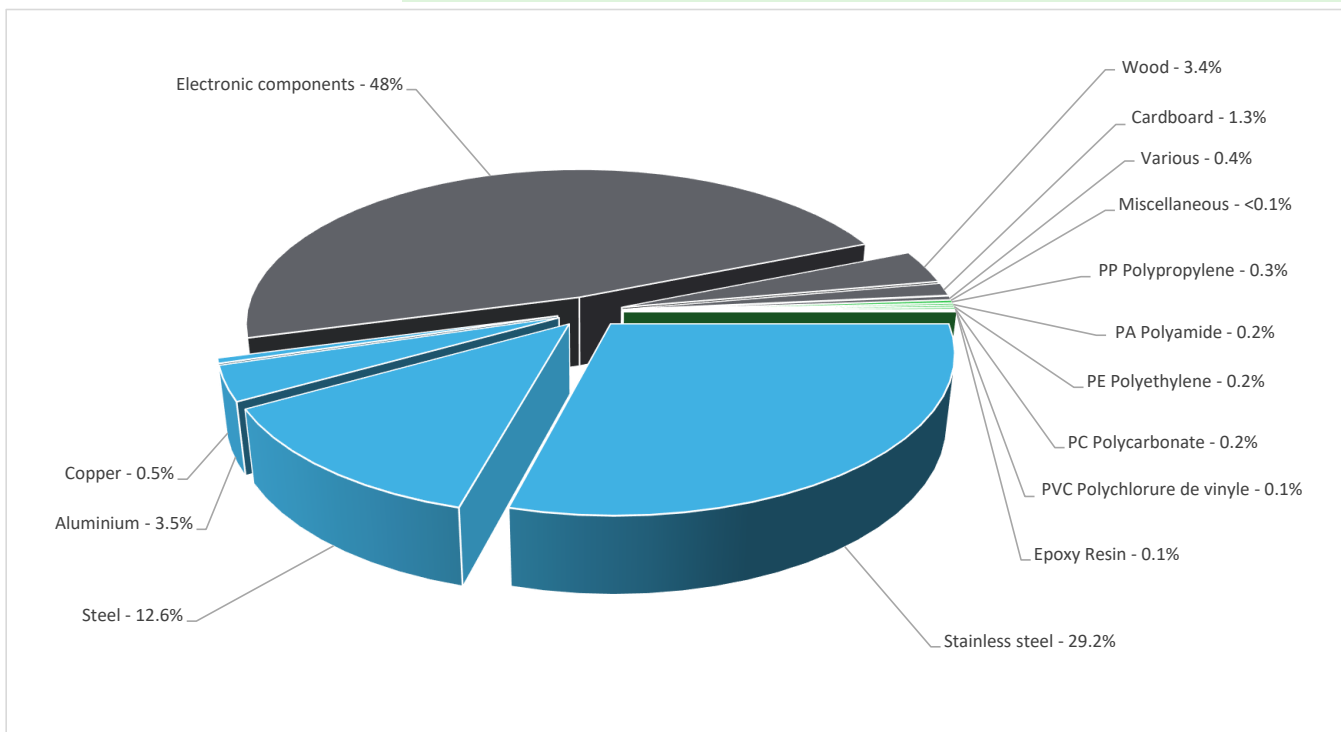
General information

Reference product	Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW - BAT215KPCS100K3EU1
Description of the product	eBox-215 energy storage system which battery pack, PCS and control unit are integrated into a cabinet, is designed and developed for the industrial and commercial application. Its function unit is to allow asset owner 6000 cycles at 70% SOH (or ten years whichever comes first applies) in standard charging and discharging mode according to warranty terms.
Description of the range	Single product
Functional unit	Other switchgear and controlgear solutions mentioned in the scope (e.g. fuses TC32, all-or-nothing relays TC94, Measuring relays and protection equipment TC95), apply the general rules of PCR and mention in the accompanying report the functional unit, the reference product characteristics, the reference lifetime and the use scenario which are applied consistently with the relevant IEC technical standards.
Specifications are:	Electricity will be stored and released upon user demand, managed and protected by the BMS, and controlled by an external ECC (Energy Central Controller). - UL 9540A: 2019 - IEC 60730-1:2022 Annex H UL 60730-1:2016 Annex H - IEC 62477-1:2012+A1 EN 62477-1:2012+A11:2014+A1:2017+A12:2021 - EN IEC 62619: 2022 IEC 62619:2022 IEC 63056: 2020 - IEC 62933-5-2:2020 -EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019 -NFPA 69:2024



Constituent materials

Reference product mass 2695000 g including the product, its packaging, additional elements and accessories



Plastics	1.1%
Metals	45.8%
Others	53.1%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

<https://www.se.com>

Additional environmental information

End Of Life	Recyclability potential:	47%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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).
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Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Passive product - continuous operation			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	The product does not require any installation operations			
Use scenario	The product is in active mode 35% of the time with a power use of 4600W; in stand-by mode 60% of the time with a power use of 91W, in sleep mode 5% of the time with a power use of 0 W during 10 years.			
Time representativeness	The collected data are representative of the year 2025			
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	Final assembly site	Use phase		End-of-life
	China	No		No
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; Low voltage; 2020; France, FR	Global, European and French datasets are used.

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		Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW - BAT215KPCS100K3EU1						
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	6.98E+04	4.94E+04	9.70E+02	3.11E+02	1.31E+04	6.01E+03	-6.36E+03
Contribution to climate change-fossil	kg CO2 eq	6.88E+04	4.93E+04	9.70E+02	1.18E+02	1.24E+04	6.00E+03	-6.39E+03
Contribution to climate change-biogenic	kg CO2 eq	1.03E+03	9.32E+01	0*	1.93E+02	7.33E+02	1.35E+01	2.97E+01
Contribution to climate change-land use and land use change	kg CO2 eq	3.47E-02	3.41E-02	0*	0*	0*	6.23E-04	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.18E-02	4.08E-02	8.57E-04	0*	1.45E-04	7.09E-05	-1.54E-03
Contribution to acidification	mol H+ eq	3.47E+02	2.69E+02	4.22E+00	1.68E-01	6.14E+01	1.27E+01	-3.90E+01
Contribution to eutrophication, freshwater	kg P eq	2.30E+01	2.26E+01	0*	0*	4.11E-01	3.52E-02	-1.92E-02
Contribution to eutrophication, marine	kg N eq	8.90E+01	7.53E+01	1.94E+00	6.98E-02	8.46E+00	3.22E+00	-3.62E+00
Contribution to eutrophication, terrestrial	mol N eq	6.47E+02	4.50E+02	2.10E+01	5.64E-01	1.41E+02	3.42E+01	-4.05E+01
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.95E+02	1.54E+02	6.89E+00	1.50E-01	2.48E+01	9.07E+00	-1.49E+01
Contribution to resource use, minerals and metals	kg Sb eq	4.11E+00	4.09E+00	0*	0*	1.48E-02	0*	-9.87E-01
Contribution to resource use, fossils	MJ	2.31E+06	5.41E+05	1.21E+04	4.90E+02	1.72E+06	3.14E+04	-1.01E+05
Contribution to water use	m3 eq	6.56E+05	6.53E+05	0*	0*	2.41E+03	3.41E+02	-2.61E+03

Inventory flows Indicators		Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW - BAT215KPCS100K3EU1						
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 renewable primary energy used as raw material	MJ	5.07E+03	5.07E+03	0*	0*	0*	0*	-1.08E+03
Contribution to total renewable primary energy	MJ	2.19E+05	2.18E+04	0*	4.84E+02	1.95E+05	1.41E+03	-2.47E+03
Contribution to non renewable primary energy used as energy	MJ	2.30E+06	5.31E+05	1.21E+04	4.90E+02	1.72E+06	3.14E+04	-1.01E+05
Contribution to non renewable primary energy used as raw material	MJ	1.06E+04	1.06E+04	0*	0*	0*	0*	-1.07E+02
Contribution to total non renewable primary energy	MJ	2.31E+06	5.41E+05	1.21E+04	4.90E+02	1.72E+06	3.14E+04	-1.01E+05
Contribution to use of secondary material	kg	0.00E+00	0*	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 fresh water	m³	1.53E+04	1.52E+04	0*	0*	5.63E+01	9.97E+00	-6.08E+01
Contribution to hazardous waste disposed	kg	5.94E+05	5.92E+05	0*	0*	5.37E+02	1.34E+03	-7.45E+04
Contribution to non hazardous waste disposed	kg	4.42E+04	4.02E+04	0*	9.30E+01	2.47E+03	1.50E+03	-4.66E+03
Contribution to radioactive waste disposed	kg	2.89E+01	2.80E+01	1.93E-01	5.12E-03	5.89E-01	8.31E-02	-2.91E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.44E+03	1.34E+02	0*	6.09E+01	0*	1.24E+03	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	5.53E+01	1.01E+01	0*	3.30E+01	0*	1.23E+01	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 4.75E+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%)

Mandatory Indicators		Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW - BAT215KPCS100K3EU1							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.31E+04	0*	0*	0*	0*	0*	1.31E+04	0*
Contribution to climate change-fossil	kg CO2 eq	1.24E+04	0*	0*	0*	0*	0*	1.24E+04	0*
Contribution to climate change-biogenic	kg CO2 eq	7.33E+02	0*	0*	0*	0*	0*	7.33E+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	1.45E-04	0*	0*	0*	0*	0*	1.45E-04	0*
Contribution to acidification	mol H+ eq	6.14E+01	0*	0*	0*	0*	0*	6.14E+01	0*
Contribution to eutrophication, freshwater	kg P eq	4.11E-01	0*	0*	0*	0*	0*	4.11E-01	0*
Contribution to eutrophication marine	kg N eq	8.46E+00	0*	0*	0*	0*	0*	8.46E+00	0*
Contribution to eutrophication, terrestrial	mol N eq	1.41E+02	0*	0*	0*	0*	0*	1.41E+02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.48E+01	0*	0*	0*	0*	0*	2.48E+01	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.48E-02	0*	0*	0*	0*	0*	1.48E-02	0*
Contribution to resource use, fossils	MJ	1.72E+06	0*	0*	0*	0*	0*	1.72E+06	0*
Contribution to water use	m3 eq	2.41E+03	0*	0*	0*	0*	0*	2.41E+03	0*

Inventory flows Indicators		Energy Storage, Schneider Boost Pro, Battery capacity 215kWh, Power Conversion 100kW - BAT215KPCS100K3EU1							
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	0.00E+00	0*	0*	0*	0*	0*	1.95E+05	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	1.95E+05	0*	0*	0*	0*	0*	1.95E+05	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.72E+06	0*	0*	0*	0*	0*	1.72E+06	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	1.72E+06	0*	0*	0*	0*	0*	1.72E+06	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	m ³	5.63E+01	0*	0*	0*	0*	0*	5.63E+01	0*
Contribution to hazardous waste disposed	kg	5.37E+02	0*	0*	0*	0*	0*	5.37E+02	0*
Contribution to non hazardous waste disposed	kg	2.47E+03	0*	0*	0*	0*	0*	2.47E+03	0*
Contribution to radioactive waste disposed	kg	5.89E-01	0*	0*	0*	0*	0*	5.89E-01	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 v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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 :	ENVPEP2507021_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	7/15/2025	Supplemented by	PSR-0005-ed3-2023 06 06
		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			
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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