

Product Environmental Profile

Galaxy VS UPS, internal smart modular battery



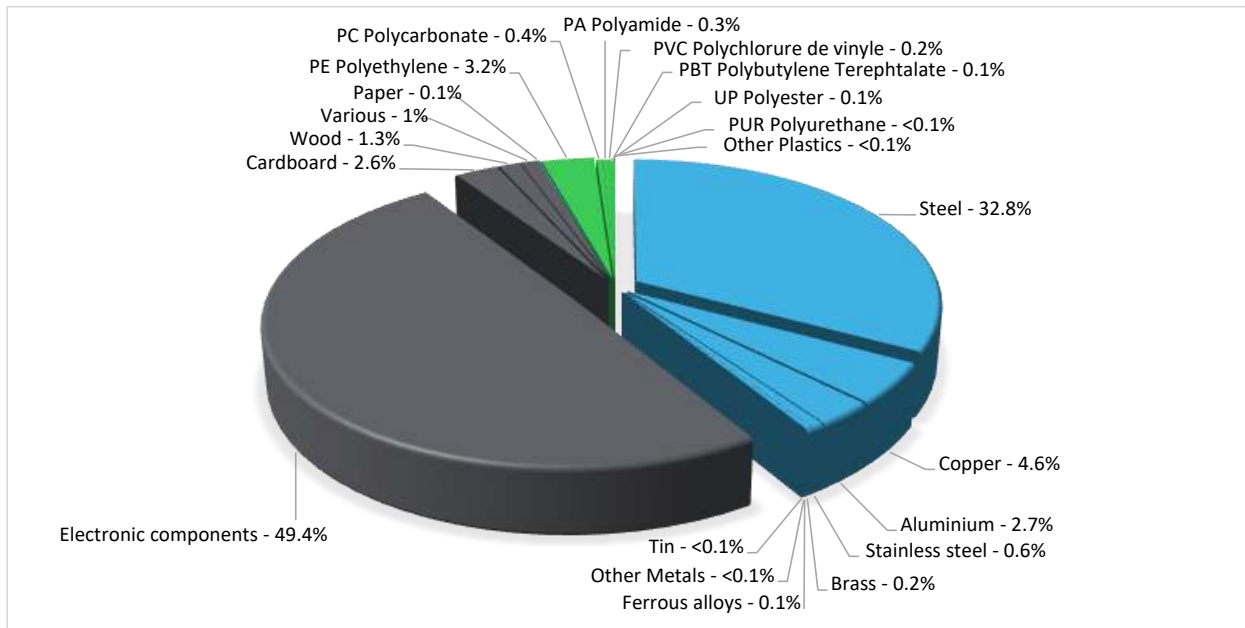
General information

Reference product	Galaxy VS UPS 100kW 400V, 3 internal 9Ah smart modular battery strings expandable to 5, Start-up 5x8 - GVSUPS100KB5HS					
Description of the product	Highly efficient, easy-to-deploy 100 kW, 400 V 3-phase UPS that brings best-in-class power protection and low total cost of ownership to edge, small and medium data centers, as well as to critical infrastructure in commercial and industrial applications. Includes 5x8 start-up service and 3 smart modular high capacity battery strings, expandable to 5 strings for extended runtime. See the battery runtime chart for details.					
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. The products of the range are: Galaxy VS					
	Linked products	Type	Net weight (kg)	Weight with packaging (kg)	Dimension (mm) HxWxD	Output performance classification
	GVSUPS10KB4HS	Galaxy VS UPS 10kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	320	350	1485 x521 x 847	VFI-SS-111
	GVSUPS15KB4HS	Galaxy VS UPS 15kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	320	350	1485 x521 x 847	
	GVSUPS20KB4HS	Galaxy VS UPS 20kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	320	350	1485 x521 x 847	
	GVSUPS30KB4HS	Galaxy VS UPS 30kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	460	490	1485 x521 x 847	
	GVSUPS40KB4HS	Galaxy VS UPS 40kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	460	490	1485 x521 x 847	
	GVSUPS50KB4HS	Galaxy VS UPS 50kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	460	490	1485 x521 x 847	
	GVSUPS60KB5HS	Galaxy VS UPS 60kW 400V, 3 internal 9Ah smart modular battery strings, expandable to 5, Start-up 5x8	665	690	1970 x550 x847	
	GVSUPS80KB5HS	Galaxy VS UPS 80kW 400V, 3 internal 9Ah smart modular battery strings, expandable to 5, Start-up 5x8	650	680	1970 x550 x847	
	GVSUPS100KB5HS	Galaxy VS UPS 100kW 400V, 3 internal 9Ah smart modular battery strings expandable to 5, Start-up 5x8	650	680	1970 x550 x847	
	GVSUPS20K0B4HS	Galaxy VS UPS 20kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	320	350	1485 x521 x847	
	GVSUPS30K0B4HS	Galaxy VS UPS 30kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	173	200	1485 x521 x847	
	GVSUPS40K0B4HS	Galaxy VS UPS 40kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	173	200	1485 x521 x847	
	GVSUPS50K0B4HS	Galaxy VS UPS 50kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	173	200	1485 x521 x847	
	GVSUPS60K0B5HS	Galaxy VS UPS 60kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	665	690	1970 x550 x847	
	GVSUPS80K0B5HS	Galaxy VS UPS 80kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	680	705	1970 x550 x847	
	GVSUPS100K0B5HS	Galaxy VS UPS 100kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	680	705	1970 x550 x847	
	GVSUPS20KR0B5HS	Galaxy VS UPS 20kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	680	705	1970 x550 x847	
	GVSUPS30KR0B5HS	Galaxy VS UPS 30kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	680	705	1970 x550 x847	
	GVSUPS40KR0B5HS	Galaxy VS UPS 40kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	680	705	1970 x550 x847	
	GVSUPS50KR0B5HS	Galaxy VS UPS 50kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	680	705	1970 x550 x847	
Functional unit	To ensure the supply of power without interruption to equipment with load of 100 watts for a RSL of 1 years, including a backup time capacity of 5 minutes during power shortages.					
Declared unit	To ensure the supply of power without interruption to equipment with load of 100000 watts for a RSL of 15 years, including a backup time capacity of 5 minutes during power shortages.					

*The products listed here just include which has 9Ah battery and in 400V voltage. If more data is required for product with 7Ah battery and in 480V or 208V voltage, please contact Schneider Electric.

Constituent materials

Reference product mass 680 kg including the product, its packaging, additional elements and accessories



Plastics	4.5%
Metals	41.0%
Others	54.5%

Substance assessment

RoHS compliance	Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) on restriction of lead, mercury, cadmium, hexavalent chromium or flame retardants -PBB&PBDE or phthalates-DEHP, BBP, DBP, DIBP.
REACH compliance	Products of this range are designed in conformity with the requirements of the REACH 1907/2006 regulation and its latest updates.
Battery Regulation compliance	The battery within this product range are designed in conformity with the requirements of the Battery Regulation (REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023).

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:	42%	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	15 years
Product category	Uninterruptible Power Supply (UPS) - with energy storage system incorporated - P > 10000W
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 need specific tools or services, only packaging of the product needs to be eliminated.

Power consumption conforms to the requirements in PSR-0010-ed2-EN-2023 12 08_UPS and IEC 62040-3:

Load rate	25%	50%	75%	100%
Proportion of time at specific load	0.25	0.5	0.25	0

The referent UPS is modeled to operate in normal mode (average efficiency of 96.6% and annual use of 14399.25 kWh) 100% of the time within 15 years. The total electricity consumption is 2159988.75kWh over 15 years.

The considered operating mode of other products within the same range please refer the table below:

Linked products	Type (400V UPS system with 9Ah battery)	Double conversion	
		Average energy efficiency	Electricity consumption (kWh over 15 years)
GVSUPS10KB4HS	Galaxy VS UPS 10kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	95.0%	30057.75
GVSUPS15KB4HS	Galaxy VS UPS 15kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	95.9%	38188.125
GVSUPS20KB4HS	Galaxy VS UPS 20kW 400V, 1 internal 9Ah smart modular battery string, expandable to 4, Start-up 5x8	96.3%	46647
GVSUPS30KB4HS	Galaxy VS UPS 30kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	96.1%	71695.125
GVSUPS40KB4HS	Galaxy VS UPS 40kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	96.5%	88038
GVSUPS50KB4HS	Galaxy VS UPS 50kW 400V, 2 internal 9Ah smart modular battery strings, expandable to 4, Start-up 5x8	96.6%	107994.375
GVSUPS60KB5HS	Galaxy VS UPS 60kW 400V, 3 internal 9Ah smart modular battery strings, expandable to 5, Start-up 5x8	96.5%	133535.25
GVSUPS80KB5HS	Galaxy VS UPS 80kW 400V, 3 internal 9Ah smart modular battery strings, expandable to 5, Start-up 5x8	96.5%	178047
GVSUPS100KB5HS	Galaxy VS UPS 100kW 400V, 3 internal 9Ah smart modular battery strings expandable to 5, Start-up 5x8	96.6%	215988.75
GVSUPS20K0B4HS	Galaxy VS UPS 20kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	96.3%	46647
GVSUPS30K0B4HS	Galaxy VS UPS 30kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	96.1%	71695.125
GVSUPS40K0B4HS	Galaxy VS UPS 40kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	96.5%	88038
GVSUPS50K0B4HS	Galaxy VS UPS 50kW 400V for up to 4 internal 9Ah smart modular battery strings, Start-up 5x8	96.6%	107994.375
GVSUPS60K0B5HS	Galaxy VS UPS 60kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	96.5%	133535.25
GVSUPS80K0B5HS	Galaxy VS UPS 80kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	96.5%	178047
GVSUPS100K0B5HS	Galaxy VS UPS 100kW 400V for up to 5 internal 9Ah smart modular battery strings, Start-up 5x8	96.6%	215988.75
GVSUPS20K0B5HS	Galaxy VS UPS 20kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	95.6%	53545.5
GVSUPS30K0B5HS	Galaxy VS UPS 30kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	94.6%	98057.25
GVSUPS40K0B5HS	Galaxy VS UPS 40kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	95.4%	112347
GVSUPS50K0B5HS	Galaxy VS UPS 50kW 400V with N+1 power module, for 5 smart modular 9Ah battery strings, Start-up 5x8	95.9%	128115

*For the range consistency, 10kW model uses the same efficiency method and lifetime as the rest models of the GVS UPS with batteries.

**The products of GVS UPS are showed on the above table just include which has 9Ah battery and in 400V voltage. If more products' data is required for product with 7Ah battery and in 480V and 208V voltage, please contact Schneider Electric.

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 représentative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	India	Europe	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; India, IN	No energy used	Electricity Mix; Low voltage; 2020; Europe, EU-27
			[C1 - C4]
			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>

The calculation result is scientific counting method. For example, $1.37E+06=1.37*10^6=1370000$, $1.64E-04=1.64*10^{(-4)}=0.000164$

All environmental impacts are calculated for the declared unit, then data should be divided by the factor calculated with formulas listed in PSR-0010-ed2.0-EN 2023 12 08 3.1.3 to get the functional unit result (see the section titled "Functional Unit").

Mandatory Indicators		Galaxy VS UPS, internal smart modular battery - GVSUPS100KB5HS						
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	9.84E+04	7.47E+03	3.15E+02	7.33E+01	8.90E+04	1.59E+03	-8.60E+02
Contribution to climate change-fossil	kg CO2 eq	9.65E+04	7.51E+03	3.15E+02	3.20E+01	8.71E+04	1.59E+03	-8.67E+02
Contribution to climate change-biogenic	kg CO2 eq	1.94E+03	0*	0*	4.13E+01	1.93E+03	5.63E+00	7.45E+00
Contribution to climate change-land use and land use change	kg CO2 eq	4.36E-03	4.06E-03	0*	0*	1.55E-04	1.42E-04	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.79E-03	1.48E-03	2.78E-04	3.50E-07	1.02E-03	1.59E-05	-1.39E-04
Contribution to acidification	mol H+ eq	5.29E+02	5.32E+01	1.37E+00	7.82E-02	4.71E+02	3.03E+00	-1.01E+01
Contribution to eutrophication, freshwater	kg P eq	2.51E-01	2.36E-02	3.70E-05	5.19E-04	2.18E-01	9.23E-03	-2.25E-03
Contribution to eutrophication marine	kg N eq	6.46E+01	6.96E+00	6.30E-01	3.18E-02	5.61E+01	8.08E-01	-5.56E-01
Contribution to eutrophication, terrestrial	mol N eq	9.79E+02	7.67E+01	6.83E+00	2.46E-01	8.87E+02	8.58E+00	-6.28E+00
Contribution to photochemical ozone formation - human health	kg CO2NM eq	2.07E+02	2.43E+01	2.24E+00	5.80E-02	1.79E+02	2.25E+00	-2.42E+00
Contribution to resource use, minerals and metals	kg Sb eq	5.50E+00	3.46E+00	0*	0*	2.04E+00	0*	-2.18E-01
Contribution to resource use, fossils	MJ	2.32E+06	1.85E+05	3.93E+03	2.50E+02	2.12E+06	7.48E+03	-1.72E+04
Contribution to water use	m3 eq	-1.12E+05	-1.19E+05	0*	0*	0*	0*	-5.39E+02

Inventory flows Indicators		Galaxy VS UPS, internal smart modular battery - GVSUPS100KB5HS						
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	4.98E+05	5.63E+03	0*	7.31E+01	4.92E+05	3.47E+02	-3.29E+02
Contribution to use of renewable primary energy resources used as raw material	MJ	4.13E+02	3.32E+02	0*	0*	8.03E+01	0*	-2.87E+02
Contribution to total use of renewable primary energy resources	MJ	4.98E+05	5.97E+03	0*	7.31E+01	4.92E+05	3.47E+02	-6.16E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.31E+06	1.83E+05	3.93E+03	2.50E+02	2.12E+06	7.48E+03	-1.72E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.00E+03	2.45E+03	0*	0*	5.54E+02	0*	-2.32E+01
Contribution to total use of non-renewable primary energy resources	MJ	2.32E+06	1.85E+05	3.93E+03	2.50E+02	2.12E+06	7.48E+03	-1.72E+04
Contribution to use of secondary material	kg	1.48E+01	1.48E+01	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	-2.60E+03	-2.77E+03	0*	0*	0*	0*	-1.25E+01
Contribution to hazardous waste disposed	kg	2.31E+04	1.54E+04	0*	0*	7.26E+03	3.53E+02	-1.71E+04
Contribution to non hazardous waste disposed	kg	1.60E+04	2.19E+03	0*	1.29E+01	1.34E+04	3.68E+02	-8.83E+02
Contribution to radioactive waste disposed	kg	4.94E+00	1.47E+00	6.27E-02	1.66E-03	3.38E+00	2.09E-02	-5.51E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.66E+02	6.28E+01	0*	1.92E+01	1.29E-01	2.83E+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	8.08E+00	1.45E+00	0*	3.83E+00	2.35E-03	2.80E+00	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	9.08E+00

* 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%)


Functional Unit Result

Mandatory Indicators		Galaxy VS UPS, internal smart modular battery - GVSUPS100KB5HS						
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 CO ₂ eq	6.56E+00	4.98E-01	2.10E-02	4.89E-03	5.93E+00	1.06E-01	-5.73E-02
Contribution to climate change-fossil	kg CO ₂ eq	6.43E+00	5.00E-01	2.10E-02	2.14E-03	5.80E+00	1.06E-01	-5.78E-02
Contribution to climate change-biogenic	kg CO ₂ eq	1.32E-01	0*	0*	2.75E-03	1.29E-01	3.75E-04	4.96E-04
Contribution to climate change-land use and land use change	kg CO ₂ eq	2.91E-07	2.71E-07	0*	0*	1.04E-08	9.49E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.86E-07	9.83E-08	1.86E-08	2.33E-11	6.79E-08	1.06E-09	-9.27E-09
Contribution to acidification	mol H ⁺ eq	3.53E-02	3.55E-03	9.14E-05	5.21E-06	3.14E-02	2.02E-04	-6.73E-04
Contribution to eutrophication, freshwater	kg P eq	1.67E-05	1.58E-06	2.46E-09	3.46E-08	1.45E-05	6.15E-07	-1.50E-07
Contribution to eutrophication, marine	kg N eq	4.31E-03	4.64E-04	4.20E-05	2.12E-06	3.74E-03	5.38E-05	-3.71E-05
Contribution to eutrophication, terrestrial	mol N eq	6.53E-02	5.11E-03	4.55E-04	1.64E-05	5.91E-02	5.72E-04	-4.19E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.38E-02	1.62E-03	1.49E-04	3.87E-06	1.19E-02	1.50E-04	-1.61E-04
Contribution to resource use, minerals and metals	kg Sb eq	3.67E-04	2.31E-04	0*	0*	1.36E-04	0*	-1.45E-05
Contribution to resource use, fossils	MJ	1.54E+02	1.24E+01	2.62E-01	1.67E-02	1.41E+02	4.99E-01	-1.15E+00
Contribution to water use	m ³ eq	-7.94E+00	-7.94E+00	0*	0*	0*	0*	-3.59E-02

Inventory flows Indicators		Galaxy VS UPS, internal smart modular battery - GVSUPS100KB5HS						
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	3.32E+01	3.76E-01	0*	4.87E-03	3.28E+01	2.31E-02	-2.19E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.75E-02	2.22E-02	0*	0*	5.36E-03	0*	-1.91E-02
Contribution to total use of renewable primary energy resources	MJ	3.32E+01	3.98E-01	0*	4.87E-03	3.28E+01	2.31E-02	-4.10E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.54E+02	1.22E+01	2.62E-01	1.67E-02	1.41E+02	4.99E-01	-1.15E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.00E-01	1.63E-01	0*	0*	3.69E-02	0*	-1.55E-03
Contribution to total use of non-renewable primary energy resources	MJ	1.54E+02	1.24E+01	2.62E-01	1.67E-02	1.41E+02	4.99E-01	-1.15E+00
Contribution to use of secondary material	kg	9.83E-04	9.83E-04	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	m ³	-1.85E-01	-1.85E-01	0*	0*	0*	0*	-8.36E-04
Contribution to hazardous waste disposed	kg	1.54E+00	1.03E+00	0*	0*	4.84E-01	2.35E-02	-1.14E+00
Contribution to non hazardous waste disposed	kg	1.07E+00	1.46E-01	0*	8.59E-04	8.95E-01	2.45E-02	-5.88E-02
Contribution to radioactive waste disposed	kg	3.29E-04	9.82E-05	4.18E-06	1.11E-07	2.25E-04	1.39E-06	-3.67E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.44E-02	4.19E-03	0*	1.28E-03	8.58E-06	1.89E-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	5.39E-04	9.66E-05	0*	2.55E-04	1.56E-07	1.87E-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 6.05E-04

* 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%)

**The functional unit data is calculated from declared unit according to the method from PSR-0010-ed2.0-EN 2023 12 08. The data shown above is based on the referent product with 3 strings batteries. If the data about other battery configuration status is needed, please contact the related Schneider Electric Ecoreferent.

 **Extrapolated Data**

Galaxy VS UPS in 400 voltage with 9Ah internal smart modular battery (1)											
Product information	Rated Power	10kW	15kW	20kW		30kW		40kW		50kW	
	Battery strings	1 Expand. to 4	1 Expand. to 4	1 Expand. to 4	up to 4	2 Expand. to 4	up to 4	2 Expand. to 4	up to 4	2 Expand. to 4	up to 4
Weight with Packaging (kg)	350	350	350	350	490	200	490	200	490	200	
Compulsory environmental indicators (UPS in double conversion mode)	Contribution to climate change (kg CO ₂ eq)	1.79E+04	2.12E+04	2.46E+04	2.46E+04	3.70E+04	3.23E+04	4.36E+04	3.89E+04	5.17E+04	4.69E+04
	Contribution to Ozone depletion (kg CFC11 eq)	1.29E-03	1.31E-03	1.32E-03	1.32E-03	1.86E-03	8.34E-04	1.89E-03	8.63E-04	1.93E-03	8.97E-04
	Contribution to Acidification (mol H ⁺ eq)	1.01E+02	1.18E+02	1.36E+02	1.36E+02	2.04E+02	1.73E+02	2.38E+02	2.07E+02	2.80E+02	2.50E+02
	Contribution to eutrophication, freshwater (kg PO ₄ ³⁻ eq)	5.07E-02	5.86E-02	6.67E-02	6.67E-02	9.96E-02	8.17E-02	1.15E-01	9.76E-02	1.35E-01	1.17E-01
	Contribution to eutrophication marine (kg N eq)	1.32E+01	1.52E+01	1.73E+01	1.73E+01	2.58E+01	2.10E+01	2.98E+01	2.51E+01	3.47E+01	3.00E+01
	Contribution to eutrophication, terrestrial (mol N eq)	1.82E+02	2.14E+02	2.48E+02	2.48E+02	3.73E+02	3.21E+02	4.37E+02	3.85E+02	5.17E+02	4.65E+02
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	4.31E+01	4.94E+01	5.61E+01	5.61E+01	8.35E+01	6.74E+01	9.64E+01	8.02E+01	1.12E+02	9.59E+01
	Contribution to resource use, minerals and metals (kgSbeq)	2.82E+00	2.82E+00	2.82E+00	2.82E+00	3.95E+00	1.62E+00	3.96E+00	1.62E+00	3.96E+00	1.62E+00
	Total use of primary energy (MJ)	4.78E+05	5.76E+05	6.77E+05	6.77E+05	1.02E+06	9.26E+05	1.22E+06	1.12E+06	1.46E+06	1.36E+06
Contribution to water use (m ³ eq)	-6.01E+04	-5.98E+04	-5.95E+04	-5.95E+04	-8.32E+04	-3.26E+04	-8.27E+04	-3.21E+04	-8.21E+04	-3.15E+04	

*The extrapolated data is calculated based on the environmental impact data of the declared unit and under Double Conversion use scenario.

**The products of GVS UPS are showed on the above table just include which has 9Ah battery and in 400V voltage. If more products' data is required for product with 7Ah battery and in 480V and 208V voltage, please contact Schneider Electric.

***All products are calculated based on the Europe electricity origin during the general use stage in this report. If more accurate data is required for product sales in other regions, please contact Schneider Electric.

Referent product

Galaxy VS UPS in 400 voltage with 9Ah internal smart modular battery (2)											
Product information	Rated Power	60kW		80kW		100kW		20kW with N+1 power module	30kW with N+1 power module	40kW with N+1 power module	50kW with N+1 power module
	Battery strings	3 Expand. to 5	up to 5	3 Expand. to 5	up to 5	3 Expand. to 5	up to 5	for 5	for 5	for 5	for 5
Weight with Packaging (kg)	690	690	680	705	680	705	705	705	705	705	705
Compulsory environmental indicators (UPS in double conversion mode)	Contribution to climate change (kg CO ₂ eq)	6.53E+04	6.53E+04	8.31E+04	8.35E+04	9.84E+04	9.88E+04	3.32E+04	5.12E+04	5.70E+04	6.33E+04
	Contribution to Ozone depletion (kg CFC11 eq)	2.68E-03	2.68E-03	2.72E-03	2.81E-03	2.79E-03	2.88E-03	2.60E-03	2.67E-03	2.70E-03	2.73E-03
	Contribution to Acidification (mol H ⁺ eq)	3.56E+02	3.56E+02	4.49E+02	4.51E+02	5.29E+02	5.32E+02	1.88E+02	2.82E+02	3.12E+02	3.46E+02
	Contribution to eutrophication, freshwater (kg PO ₄ ³⁻ eq)	1.72E-01	1.72E-01	2.14E-01	2.16E-01	2.51E-01	2.53E-01	9.53E-02	1.38E-01	1.52E-01	1.68E-01
	Contribution to eutrophication marine (kg N eq)	4.43E+01	4.43E+01	5.52E+01	5.56E+01	6.46E+01	6.50E+01	2.48E+01	3.58E+01	3.93E+01	4.32E+01
	Contribution to eutrophication, terrestrial (mol N eq)	6.54E+02	6.54E+02	8.29E+02	8.33E+02	9.79E+02	9.84E+02	3.39E+02	5.16E+02	5.72E+02	6.35E+02
	Contribution to photochemical ozone formation - human health (kg COVNM eq)	1.43E+02	1.43E+02	1.78E+02	1.79E+02	2.07E+02	2.09E+02	8.12E+01	1.16E+02	1.27E+02	1.40E+02
	Contribution to resource use, minerals and metals (kgSbeq)	5.57E+00	5.57E+00	5.50E+00	5.70E+00	5.50E+00	5.70E+00	5.68E+00	5.69E+00	5.69E+00	5.69E+00
	Total use of primary energy (MJ)	1.83E+06	1.83E+06	2.36E+06	2.37E+06	2.81E+06	2.82E+06	8.80E+05	1.41E+06	1.58E+06	1.77E+06
Contribution to water use (m ³ eq)	-1.16E+05	-116121	-113014.6301	-117370	-1.12E+05	-1.16E+05	-1.21E+05	-1.20E+05	-1.19E+05	-1.19E+05	

*The extrapolated data is calculated based on the environmental impact data of the declared unit and under Double Conversion use scenario.

**The products of GVS UPS are showed on the above table just include which has 9Ah battery and in 400V voltage. If more products' data is required for product with 7Ah battery and in 480V and 208V voltage, please contact Schneider Electric.

***All products are calculated based on the Europe electricity origin during the general use stage in this report. If more accurate data is required for product sales in other regions, please contact Schneider Electric.

Life cycle assessment performed with EIME version v6.2.4, database version 2025-04 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 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 :	SCHN-02226-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0010-ed2.0-EN 2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	www.pep-ecopassport.org
Date of issue	11-2025	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal External X			
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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			



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