

Product Environmental Profile

Galaxy VS UPS





General information

Reference product	Galaxy VS UPS 150 kW 400 V, for external batteries, Start-up 5x8- GVSUPS150KHS																																																																																																																																																																		
Description of the product	Galaxy VS is a highly efficient, compact, modular and scalable 10-150kW (208V, 400V, 480V) 3-phase uninterruptible power supply (UPS) available worldwide that delivers top performance for small data centers, as well as critical infrastructure in commercial and industrial facilities.																																																																																																																																																																		
Description of the range	The products of the range are: Galaxy VS UPS for external batteries, Start-up 5x8 The representative product of the range is: GVSUPS150KHS																																																																																																																																																																		
	<table border="1"> <thead> <tr> <th>Type</th> <th>Net weight (kg)</th> <th>Weight with packaging (kg)</th> <th>Dimension (mm) HxWxD</th> <th>Output performance classification</th> <th>UPS rating (PF=1)</th> </tr> </thead> <tbody> <tr> <td>Galaxy VS UPS 20 kW 400 V, for external batteries, start-up 5x8</td> <td>206</td> <td>235</td> <td>1485x521x847</td> <td rowspan="27">VFI-SS-111</td> <td>20 kW/kVA</td> </tr> <tr> <td>Galaxy VS UPS 30 kW 400 V, for external batteries, start-up 5x8</td> <td>206</td> <td>235</td> <td>1485x521x847</td> <td>30 kW/kVA</td> </tr> <tr> <td>Galaxy VS UPS 40 kW 400 V, for external batteries, start-up 5x8</td> <td>206</td> <td>235</td> <td>1485x521x847</td> <td>40 kW/kVA</td> </tr> <tr> <td>Galaxy VS UPS 50 kW 400 V, for external batteries, start-up 5x8</td> <td>206</td> <td>235</td> <td>1485x521x847</td> <td>50 kW/kVA</td> </tr> <tr> <td>Galaxy VS UPS 60 kW 400 V, for external batteries, start-up 5x8</td> <td>250</td> <td>263</td> <td>1485x521x847</td> <td>60 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Note: Models with a Redundant power module have an extra 48 kg Shipping Weight																																																																																																																																																																			
Models ending with 'A' have same characteristics and Environmental Profile as models without 'A'																																																																																																																																																																			
Functional unit	To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 year.																																																																																																																																																																		
Declared unit	To ensure the supply of power to remain within specified characteristics to equipment with load of 150 kWfor a RSL of 15 years.																																																																																																																																																																		
Specifications	<p>The product operates in multiple normal modes, but the impact results are calculated for the product operating in double conversion mode.</p> <p>Facility 3 Phase UPS Double conversion topology Main Input Voltage: 400 V 3 phase Main Output Voltage: 400 V 3 phase Rated power in VA: 150 kVA Provided equipment:</p> <ul style="list-style-type: none"> -Dust filter -EcoStruxure IT ready (UPS) -Installation guide -Integrated network management -Power modules ship installed -Start-Up Service 																																																																																																																																																																		

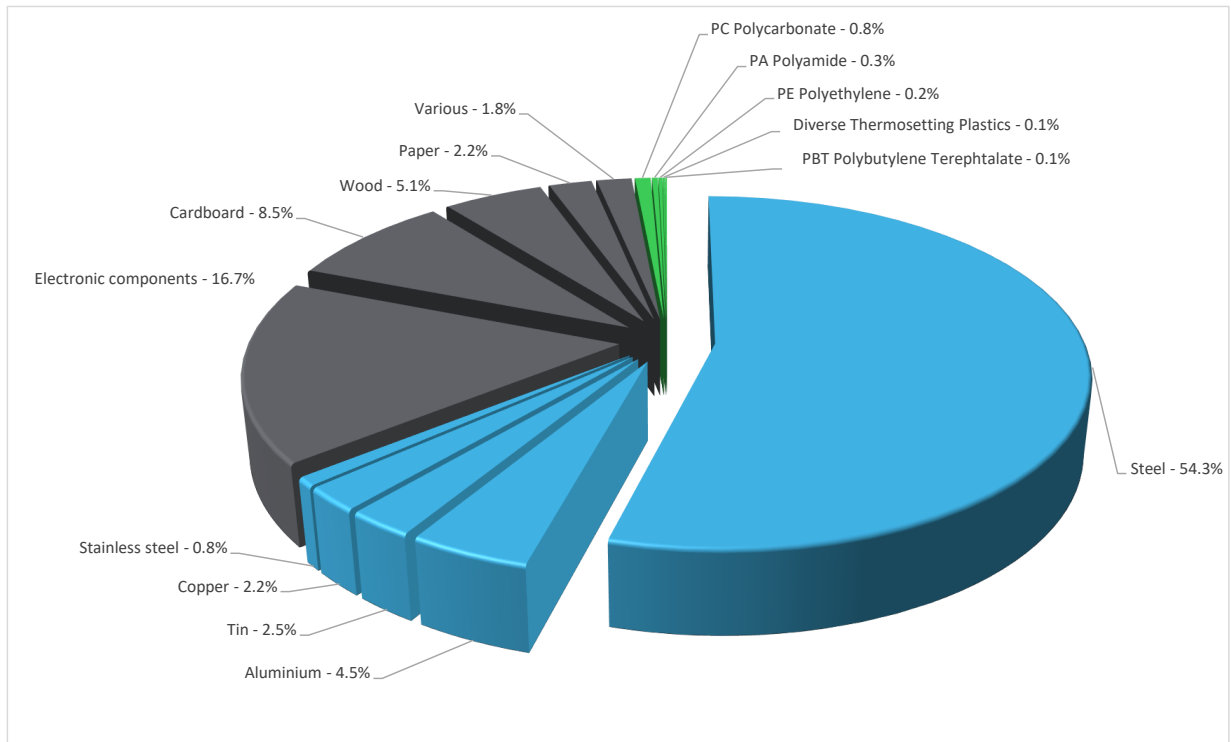


Constituent materials

Reference product mass

290 kg

including the product, its packaging, additional elements and accessories



Plastics	1.5%
Metals	64.3%
Others	34.2%



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 Directive compliance

The battery within this product range are designed in conformity with the requirements of the Battery and Accumulator Directive (European Directive 2006/66/EC of 26 September 2006).

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:

73%

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).


Environmental impacts

Reference service life time	15 years																																																																																																																																																																		
Product category	Uninterruptible Power Supply (UPS) - without 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.																																																																																																																																																																		
Use scenario	Power consumption conforms to the requirements in PSR-0010-ed2-EN-2023 12 08_UPS:																																																																																																																																																																		
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Detailed results of the optional indicators mentioned in PCRd4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>


Functional Unit

Mandatory Indicators		Galaxy VS UPS - GVSUPS150KHS						
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	5.64E+00	2.10E-01	5.97E-03	2.11E-03	5.39E+00	3.16E-02	-3.29E-02
Contribution to climate change-fossil	kg CO2 eq	5.52E+00	2.11E-01	5.97E-03	1.01E-03	5.27E+00	3.11E-02	-3.14E-02
Contribution to climate change-biogenic	kg CO2 eq	1.19E-01	0*	0*	1.10E-03	1.17E-01	5.48E-04	-1.44E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.25E-07	1.24E-07	0*	0*	2.93E-10	9.29E-10	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.19E-08	3.47E-08	5.28E-09	1.48E-11	3.19E-08	4.25E-11	-5.11E-09
Contribution to acidification	mol H+ eq	2.99E-02	1.52E-03	2.60E-05	3.37E-06	2.83E-02	9.52E-05	-2.26E-04
Contribution to eutrophication, freshwater	kg P eq	1.54E-05	6.42E-07	0*	1.64E-08	1.29E-05	1.84E-06	-7.00E-08
Contribution to eutrophication marine	kg N eq	3.52E-03	1.77E-04	1.19E-05	1.42E-06	3.31E-03	2.15E-05	-1.96E-05
Contribution to eutrophication, terrestrial	mol N eq	5.52E-02	1.93E-03	1.29E-04	1.06E-05	5.29E-02	2.33E-04	-2.22E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.13E-02	6.38E-04	4.24E-05	2.38E-06	1.05E-02	7.47E-05	-7.90E-05
Contribution to resource use, minerals and metals	kg Sb eq	5.83E-05	4.43E-05	0*	0*	1.39E-05	5.76E-08	-9.24E-06
Contribution to resource use, fossils	MJ	1.34E+02	3.53E+00	7.44E-02	0*	1.29E+02	1.69E+00	-6.91E-01
Contribution to water use	m3 eq	4.89E-01	6.17E-02	3.03E-04	1.74E-04	4.16E-01	1.02E-02	-1.52E-02

Inventory flows Indicators		Galaxy VS UPS - GVSUPS150KHS						
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	3.00E+01	6.90E-02	0*	4.42E-03	3.00E+01	0*	-2.99E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	5.57E-02	4.78E-02	0*	0*	7.83E-03	0*	-2.02E-02
Contribution to total use of renewable primary energy resources	MJ	3.01E+01	1.17E-01	0*	4.42E-03	3.00E+01	0*	-2.32E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.34E+02	3.49E+00	7.44E-02	0*	1.29E+02	1.69E+00	-6.90E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.72E-02	3.72E-02	0*	0*	9.98E-03	0*	-3.12E-04
Contribution to total use of non-renewable primary energy resources	MJ	1.34E+02	3.53E+00	7.44E-02	0*	1.29E+02	1.69E+00	-6.91E-01
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	0*	0*	0.00E+00	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	1.14E-02	1.44E-03	7.07E-06	4.06E-06	9.73E-03	2.37E-04	-3.54E-04
Contribution to hazardous waste disposed	kg	1.35E+00	1.12E+00	0*	0*	2.34E-01	2.16E-03	-7.31E-01
Contribution to non hazardous waste disposed	kg	9.29E-01	1.13E-01	0*	9.75E-04	8.14E-01	1.24E-03	-2.45E-02
Contribution to radioactive waste disposed	kg	2.40E-04	4.38E-05	1.19E-06	6.99E-08	1.95E-04	8.71E-08	-1.15E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.04E-02	1.84E-03	0*	2.17E-04	1.83E-04	8.17E-03	0.00E+00
Contribution to materials for energy recovery	kg	5.75E-11	3.80E-11	0*	0*	1.94E-11	0*	0.00E+00
Contribution to exported energy	MJ	2.40E-04	1.57E-04	0*	0*	1.84E-06	8.08E-05	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 1.28E+01

 **Declared Unit**

Mandatory Indicators		Galaxy VS UPS - GVSUPS150KHS						
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	1.26E+05	4.73E+03	1.34E+02	4.76E+01	1.21E+05	7.11E+02	-7.40E+02
Contribution to climate change-fossil	kg CO2 eq	1.23E+05	4.75E+03	1.34E+02	2.27E+01	1.19E+05	6.99E+02	-7.08E+02
Contribution to climate change-biogenic	kg CO2 eq	2.68E+03	0*	0*	2.48E+01	2.64E+03	1.23E+01	-3.24E+01
Contribution to climate change-land use and land use change	kg CO2 eq	2.81E-03	2.79E-03	0*	0*	6.60E-06	2.09E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.41E-03	7.80E-04	1.19E-04	3.33E-07	7.19E-04	9.56E-07	-1.15E-04
Contribution to acidification	mol H+ eq	6.65E+02	3.42E+01	5.85E-01	7.58E-02	6.36E+02	2.14E+00	-5.08E+00
Contribution to eutrophication, freshwater	kg P eq	3.44E-01	1.44E-02	0*	3.69E-04	2.91E-01	4.15E-02	-1.57E-03
Contribution to eutrophication marine	kg N eq	7.83E+01	3.99E+00	2.69E-01	3.19E-02	7.45E+01	4.83E-01	-4.42E-01
Contribution to eutrophication, terrestrial	mol N eq	1.23E+03	4.33E+01	2.91E+00	2.37E-01	1.19E+03	5.24E+00	-5.00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.50E+02	1.44E+01	9.55E-01	5.35E-02	2.37E+02	1.68E+00	-1.78E+00
Contribution to resource use, minerals and metals	kg Sb eq	1.04E+00	9.97E-01	0*	0*	3.13E-01	1.30E-03	-2.08E-01
Contribution to resource use, fossils	MJ	3.00E+06	7.94E+04	1.67E+03	0*	2.90E+06	3.79E+04	-1.55E+04
Contribution to water use	m3 eq	1.07E+04	1.39E+03	6.83E+00	3.92E+00	9.37E+03	2.29E+02	-3.42E+02

Inventory flows indicators		Galaxy VS UPS - GVSUPS150KHS						
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	6.76E+05	1.55E+03	0*	9.94E+01	6.74E+05	0*	-6.72E+01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.08E+03	1.08E+03	0*	0*	1.76E+02	0*	-4.54E+02
Contribution to total use of renewable primary energy resources	MJ	6.77E+05	2.63E+03	0*	9.94E+01	6.74E+05	0*	-5.21E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.00E+06	7.85E+04	1.67E+03	0*	2.90E+06	3.79E+04	-1.55E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	8.38E+02	8.38E+02	0*	0*	2.25E+02	0*	-7.02E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.00E+06	7.94E+04	1.67E+03	0*	2.90E+06	3.79E+04	-1.55E+04
Contribution to use of secondary material	kg	0.00E+00	0.00E+00	0*	0*	0.00E+00	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	2.50E+02	3.23E+01	1.59E-01	9.13E-02	2.19E+02	5.34E+00	-7.97E+00
Contribution to hazardous waste disposed	kg	2.85E+04	2.51E+04	0*	0*	5.27E+03	4.87E+01	-1.65E+04
Contribution to non hazardous waste disposed	kg	2.07E+04	2.55E+03	0*	2.19E+01	1.83E+04	2.78E+01	-5.52E+02
Contribution to radioactive waste disposed	kg	5.28E+00	9.85E-01	2.68E-02	1.57E-03	4.38E+00	1.96E-03	-2.58E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.30E+02	4.14E+01	0*	4.88E+00	4.12E+00	1.84E+02	0.00E+00
Contribution to materials for energy recovery	kg	8.56E-07	8.56E-07	0*	0*	4.37E-07	0*	0.00E+00
Contribution to exported energy	MJ	5.35E+00	3.54E+00	0*	0*	4.14E-02	1.82E+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 0 0.00E+00

Contribution to biogenic carbon content of the associated packaging 0 1.28E+01

The calculation result is scientific counting method. For example, $1.37E+06=1.37 \times 10^6=1,370,000$, $1.64E-04=1.64 \times 10^{-4}=0.000164$

* 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%)


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 -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.

For details about eConversion, consult the Schneider-Electric eConversion page: <https://www.se.com/ww/en/work/products/product-launch/econversion-high-efficiency-ups-mode/>

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range. It can be specified that the environmental impacts associated with phases A1-A5 and C1-C4 are proportional to the product's mass, while those for phase B6 are proportional to the energy consumption over the Reference Service Life (RSL).

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Date of issue	03-2025	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal External <input checked="" type="checkbox"/>			
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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