Schneider Electric – Galaxy VS



Increased availability. Reduced operating costs.
First class power protection for critical infrastructure.

20 – 100 kW
380 / 400 / 415 V

schneider-electric.com/ups

Life Is On | Schneider Electric

Increased availability. Reduced operating costs. First class power protection for critical infrastructure.

Galaxy VS is a highly efficient, modular, easy-to-deploy 20-100 kW three-phase uninterruptible power supply that delivers top performance to critical IT, commercial, and industrial facilities.

You need best-in-class power protection that is as high-performing and innovative as your business is. Galaxy VS maximizes your availability while minimizing your total cost of ownership, with highly efficient patented technologies and modular architecture.

The Galaxy VS is EcoStruxure™ Ready to give you peace of mind by sending real-time status updates directly to your smartphone. With its robust design and industry-leading performance, Galaxy VS is the ideal backbone for your critical infrastructure.



New patented hybrid technology

Provides up to 97% efficiency in double conversion mode

Electricity savings in full protection mode at every load level

Compact design

High-density technology and full front access make Galaxy VS a footprint saver well suited for confined spaces

Available with Lithium-ion battery*

Long-life, compact, and reliable energy storage

99% efficient in patented ECOnversion™ mode

Recover your initial investment within two years through energy savings

(*) contact your local representative for availability

Maximum availability thanks to modular architecture

Critical system components built as modules for faster serviceability, fault tolerance, and short mean time to repair

EcoStruxure IT

Anytime, anywhere monitoring and service support via smartphone app*



Well suited for a wide range of applications

- Edge, small, and medium data centers and computer rooms
- Manufacturing facilities
- Telecommunication
- Commercial buildings
- Healthcare
- Transportation

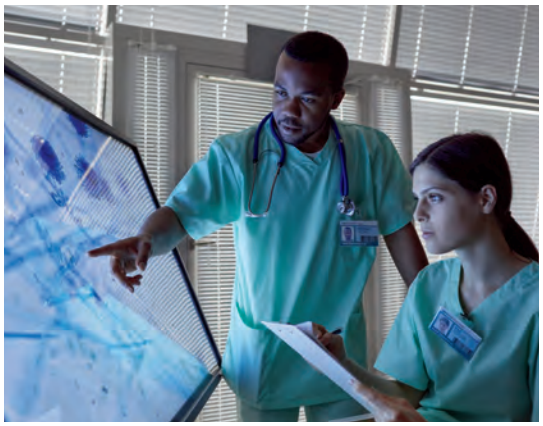
Leading performance

Robust and flexible design ideal for demanding environments at maximum performance



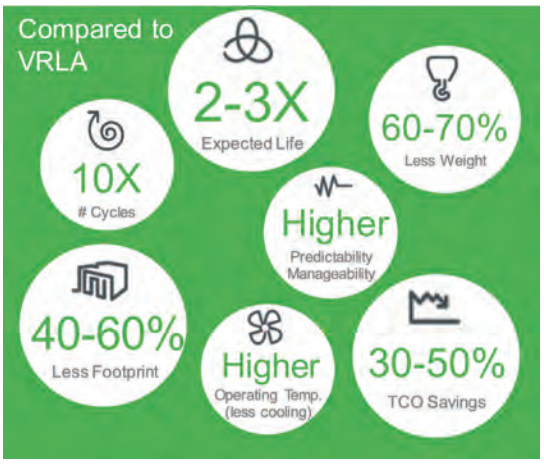
Flexibility and performance

- Unity Power Factor (PF=1) allows for right-size protection to real IT needs.
- Well suited for different applications thanks to high flexibility on power factor and high overload capability
- Seamlessly integrates into electrical environment:
  - Single and dual mains supported
- Faster battery charging capabilities: 2-3 times faster compared to industry standards
- Optimized uptime with wide input tolerance window (+/-15%)
- Right sized batteries with flexible DC bus



Robust design supports both IT and non-IT environments

- Supports a wide range of loads
- Fault-tolerant design ensures continuous protection in critical circumstances
- Designed to perform in dusty environments with its high-quality air filter
- Withstands 40ºC operating temperature without derating and up to 50ºC with load derating
- Suited for humid environments thanks to conformal coating
- Seismic certified (with option kit)
- Tested to withstand high input short-circuit: 65kA
- Exceeds industry standards on electromagnetic protection due to EMC Level C2



Best energy storage performance with Lithium-Ion battery* options

- Restore backup time quickly
- Protect your load even during repeated power interruptions
- Longer lifetime than classic battery solutions
- Higher predictability and manageability thanks to the built-in battery monitoring system

(*)contact your local representative for availability

Best operational efficiency

Reduce your energy bill

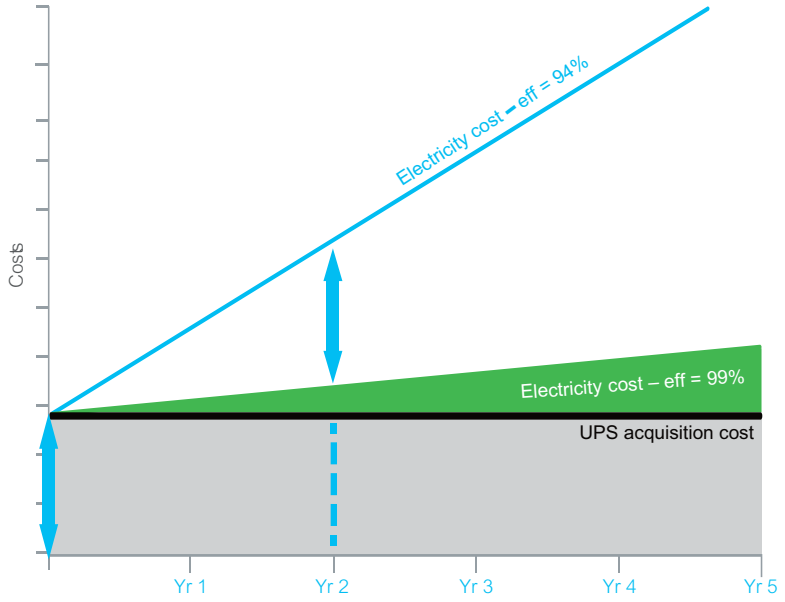
Very high efficiency for small to medium data centers, buildings, and facilities. By using ECOnversion mode, significant savings are achieved every year on your electricity bill. Compared to a legacy design, the savings are equivalent to the UPS acquisition costs after only two years.

ECOnversion: an unbeatable combination of power quality and high efficiency

	Efficiency	Annual electricity savings
ECOnversion	99%	4600 €
Double conversion	97%	2760 €
Legacy design	94%	0 €

Comparison at 100 kW

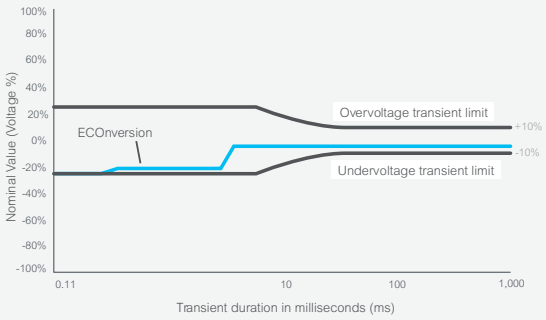
After only 2 years, electricity savings = UPS acquisition costs



ECOnversion mode

Enjoy the highest energy savings available today without sacrificing load protection – our patented zero-break transfer design offers peace of mind:

- World-class efficiency up to 99%
- Keeps excellent load protection
- Continuously charged batteries
- Compliant with IEC 62040-3 Class 1 output performance of UPS standard
- Input power factor correction and no harmonics



Galaxy VS ECOnversion meets Class 1 of IEC 62040-3: zero-break transfer during power outage.

New patented hybrid technology

- Up to 97% efficiency in double conversion online mode even at low load levels
- Uses soft-switch method to reduce losses during double-conversion

* Based on a market electricity price: 0,12$/kW.h
The annual electricity savings are done in comparison with a 94% efficiency standard UPS.

Faster installation and serviceability

Simplify your installation and maintenance



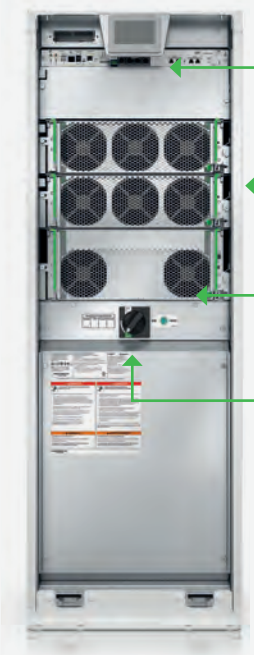
Quick to install and fits everywhere thanks to its compact design

- Lightweight, small footprint, with rolling casters
- Everything you need is included – Network Management Card (NMC), Modbus, single and dual mains, dust filters, and eight dry contacts
- Reduced risk of installation error; the large cabling section is easy to access
- Precise and reliable battery configuration, thanks to predefined battery parameters
- Simply set up a parallel redundant configuration without the need for an external bypass panel; Galaxy VS also supports a common battery bank



Simple to maintain and fast to service thanks to its modular architecture

- Fast mean time to repair thanks to swappable power, bypass, and intelligence modules
- Full front access for simple and fast connection and services
- Easy to stock modular spare parts for service
- Reduces risk of human error by making the bypass transfer sequence easy and intuitive with a simplified, integrated maintenance bypass



Intelligence Module

"System brain" contains critical control and signal wire interfaces

Power Modules

Fast-swap, slide in/slide out modules with rear connector. Includes fan box for simple replacement. Superb core performances (PF=1, high-density, high-efficiency) and fault-tolerant design

Static Switch Module

With its modular design, it can be replaced without installing an external bypass solution

Internal Maintenance Bypass

Simplifies service operations, eliminates risk of error

Peace of mind

Manage and monitor your Galaxy VS from a smartphone thanks to cloud-based software and services

Connect to **EcoStruxure Asset Advisor**, our cloud-based remote monitoring service, and optimize your time with access to our 24/7 expert Service Bureau empowered with real-time data.

Are you looking for a monitoring software solution? Learn more on EcoStruxure IT Expert, new to EcoStruxure family: https://ecostruxureit.com/ecostruxure-it-expert/

We troubleshoot, you relax



Remote monitoring

24/7 incident monitoring and remote troubleshooting



Mobility

Instant visibility to your Galaxy VS anytime, anywhere via free smartphone app



Recommendations

Online reports with analytics and advice to improve business continuity

Availability of services is country dependent.

Comprehensive on-site services

Provides optimal system lifetime

Start-up service: included with UPS

- Commission the installation in accordance with manufacturer's recommendations. Ensure optimal system performance from Day 1.

Schneider Electric-certified installation services

- Expert configuration of your equipment for optimal performance and reliability.

Maintenance services

- Ensure proper care of your mission-critical applications.
- Preventive maintenance and response time upgrades, where available.

Flexible service plans/on-site extended warranty

- Hassle-free system maintenance.
- Improve uptime at a predictable cost.

Adjusts to multiple environments

Galaxy VS is available with a full range of auxiliaries and options that ensure the best performance in any environment

Auxiliaries

- Classic battery cabinet (with or without batteries)
- Battery breaker box
- Maintenance bypass panel
- Parallel maintenance bypass panel*
- Lithium-ion batteries*

Options

- Seismic kit
- Air filter kit
- Parallel communications kit*

Green Premium Certified

Sustainable business performance, by design.
Learn more: https://www.schneider-electric.com/en/work/support/green-premium/







Lithium-ion batteries*



Classic battery cabinet
(with or without batteries)



Battery breaker box



Maintenance bypass panel

(*) contact your local representative for availability

Technical specifications

Galaxy VS	Features
Topology	On-line double conversion
Nominal Power (kW)	20-100 kW
Key features	
Modular elements	Power modules, static bypass switch module, intelligence module
Display	Color touch screen, 4.3 inches, status LED, mimic on display
Communication	Communication card included with ethernet (SNMP) and modbus 8 dry contacts (4 inputs, 4 outputs)
Maintenance bypass	Yes Internal maintenance bypass Optional maintenance bypass panel
Parallel capability	Up to 4 UPS (3+1)
Efficiency	
Double conversion mode	Yes, up to 97%
ECO mode	Yes, up to 99%
ECOnversion mode	Yes, up to 99%
Input	
Nominal input voltage	380/400/415 V
Input voltage range (phase to phase)	+/-15%
Single mains/dual mains	Single mains as standard. Easily converted to dual mains.
Input frequency	40-70Hz
Input current total harmonic distortion (THDI)	20 kW: <5% 30-100 kW: <3%
Input power factor	>0.99 @ load >25 %, >0.95 @ load > 15%
Connections	Bottom by default Top (with rear cabling)
Cables	Copper or aluminum
Input short-circuit rating	65kA
Backfeed protection	Included
Output	
Nominal output voltages	380/400/415 V
Load power factor	PF=1 (0.7 leading to 0.7 lagging without derating)
Voltage regulation	+/- 1%
Frequency	50/60Hz +-0.1% free running
Overload	1 min @ 150%; 10min @ 125%
Output THDU on linear load	<1%
Mechanical	
Size	521 x 1485 x 847 mm (WxHxD)
IP level (Ingress Protection)	IP21
Battery type	VRLA, Li-ion
Nominal DC Bus	480-576V (at ratings 50kW, 100kW) 384-576V (at other ratings)
Charging power	20-40% of full power (selectable)
Environment	
Acoustic noise	57dB (70% load) / 65dB (100% load)
Dust protection	Dust filter included. Conformal coating
Seismic	With optional kit. OSHPD tested

Preliminary specifications – can be subject to changes



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To learn more about the Galaxy VS UPS, EcoStruxure IT cloud-based DCIM, and EcoStruxure Asset Advisor 24x7 Digital Monitoring Services, contact your Schneider Electric representative or visit schneider-electric.com/ups.

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