Galaxy VS

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

10–150 kW
380/400/415 V

se.com/gvs

Schneider Electric

Maximize your availability; minimize your total cost of ownership

Galaxy™ VS is a highly efficient, modular, simple-to-deploy 10-150 kW (400 V) 3-phase uninterruptible power supply (UPS) that delivers top performance to edge, small, and medium data centers, as well as critical infrastructure in commercial and industrial facilities.

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

Galaxy VS meets your internal redundancy needs with N+1 power modules to ensure your load remains protected. This multiplies by 10 the system's availability without extra footprint.

Battery flexibility is one of the main highlights of Galaxy VS. When you choose Galaxy Lithium-ion battery cabinets, you benefit from a longer battery lifetime and higher temperature tolerance than classic battery solutions. When you choose smart battery modules integrated in the UPS cabinet, Galaxy VS offers optimized footprint and ensures critical loads have highly predictable runtimes and battery redundancy.

The Galaxy VS is EcoStruxure™ connected to give you visibility into the health of your UPS and peace of mind by sending realtime status updates directly to your smartphone. With its robust modular design, superior performance, and scalability and Live Swap options, Galaxy VS is the ideal backbone for your critical infrastructure.

99% efficient in patented eConversion mode

Recover your initial investment within two to three years through energy savings.[2]

Compact design. Optimized footprint

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

Battery flexibility, including Lithium-ion batteries[1]

Increase availability and reduce TCO with long-life, intelligent energy storage.

Patented hybrid technology

Provides up to 97% efficiency in double conversion mode.

Electricity savings in full protection mode at every load level.

Maximum availability thanks to modular architecture

Critical system components built as modules for faster serviceability and fault tolerance. N+1 redundancy, scalability, and Live Swap options available.

EcoStruxure™ IT

Anytime, anywhere monitoring and service support via smartphone app.[1]

Well-suited for a wide range of data center and industrial applications

Information technology and commercial buildings

- Edge, small, and medium data centers
- Computer rooms
- Retail/office space
- Manufacturing facilities

Transportation

- Marine (DNV, BV)[3]
- Lighting
- Air traffic control
- Security
- Signaling and communication systems

Healthcare

- Radiology and imaging equipment
- Operating rooms and Intensive Care Units
- Emergency power systems

Minerals, Metals & Mining

- Furnace process control
- Glass plants
- Emergency lighting

Oil & gas

- Refining
- Petrochemicals
- Gas processing control
- Well pumps

Power & Grid

- Thermal plants
- Generator protection
- Hydro turbine control
- Wind farm monitoring

Environmental Data Program

Next-level transparency for better-informed product choices.
Learn more about the Environmental Data Program at:
se.com/gvs
se.com/ww/en/about-us/sustainability/environmental-data-program

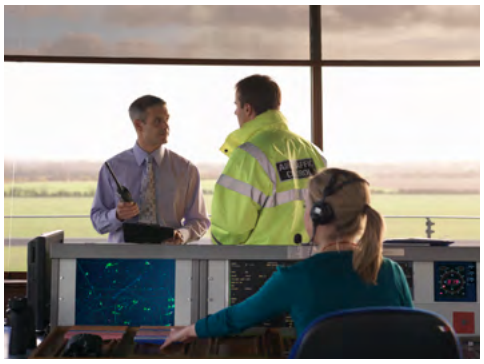
1 Model-dependent
2 Contact your local representative for availability.
3 Consult your local representative for more information about configuration requirements, including accessory kits.

Leading performance

Robust and flexible design, ideal for demanding environments at maximum performance

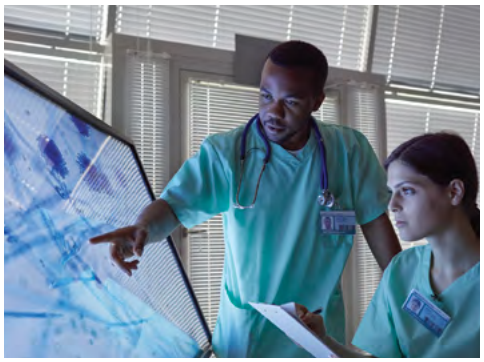
Flexibility and performance

- **Unity Power Factor (PF=1)** allows for right-size protection to real IT needs
- High overload capability and wide input tolerance (±15%) for demanding applications
- Seamless integration with single or dual mains support
- Flexible DC bus and right-sized batteries for optimized run time



Higher availability: maximum uptime, reduced risk

- One extra power module for **N+1 internal redundancy** keeps your load protected and multiplies system availability by 10 with no extra footprint
- Optimized uptime with wide input tolerance window (+/-15%)
- With **Live Swap***, it is simple and fast to add, replace, or remove power modules
- N+0 or N+1 module-level redundancy
- N+0 or N+1 system-level redundancy (parallel up to 4 UPSs)



Reliable power for IT and non-IT environments

- Robust, fault-tolerant design ensures continuous protection in critical circumstances
- Designed to perform in dusty environments with its high-quality air filter and IP20 rating (optional **IP52 kit** available for select models)
- Withstands **40ºC operating temperature** without derating (50ºC with derating)
- Suited for humid environments thanks to **conformal coating**
- **Seismic certified** (with option kit)
- Maximum short circuit rating: 65 kA
- Exceeds industry standards on electromagnetic protection due to EMC Level C2
- **Faster battery charging** capabilities restore back-up time 2-to-3 times faster compared to industry standards
- Operates at **high elevation,** with no derating up to 1000 m (3000 m with derating)
- Models with **halogen-free** power cables available

* model dependent

Premium protection and sustainability

eConversion: an unbeatable combination of power quality and high efficiency

1x

150 kW Galaxy VS eConversion*

=

10x

Rooftop solar installations

=

16x

Cars powered

=

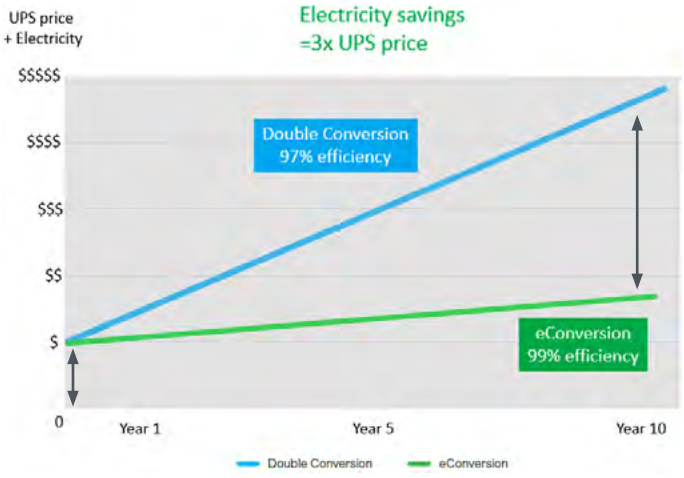
€38,200

Electricity costs saved

Sustainably reduce your operating costs

Protect power to your load, reduce your total cost of ownership and electricity consumption, and meet your sustainability goals with up to 99% efficient, Class 1-compliant eConversion mode for Galaxy V-series UPSs, the recommended operating mode for your Galaxy V-series UPS.*

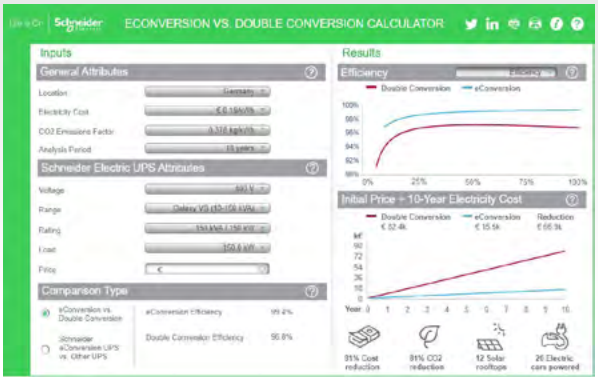
- By operating at up to **99% efficiency**, the electricity savings in eConversion within 10 years typically equals **3x the price of the UPS**.
- The inverter operates continuously, protecting the load with **no transfer time**. eConversion performance has been certified with the same IEC 62040-3 **Class 1** rating as double conversion mode.
- eConversion mode recharges batteries and provides power factor correction and harmonics compensation, making it a **versatile solution for IT and non-IT loads**.
- Since its launch in 2014, eConversion has been successfully deployed all over the world. Join thousands of customers who use it daily to protect their critical loads.



Calculate your savings

See how much you can save with Galaxy VS in eConversion mode. Use our quick calculator to compare energy costs, operating expenses, and CO_2 reduction versus double conversion mode.

Scan the QR code with your phone camera, or click here to access the calculator from the Schneider Electric Data Center Trade Off Tools™ Web page.



Learn more about eConversion

*Model dependent; based on a market electricity price: $0.15 /kWh. The annual electricity savings are calculated by comparing the UPS efficiency in eConversion mode vs. double conversion mode.

Meets your needs in multiple environments



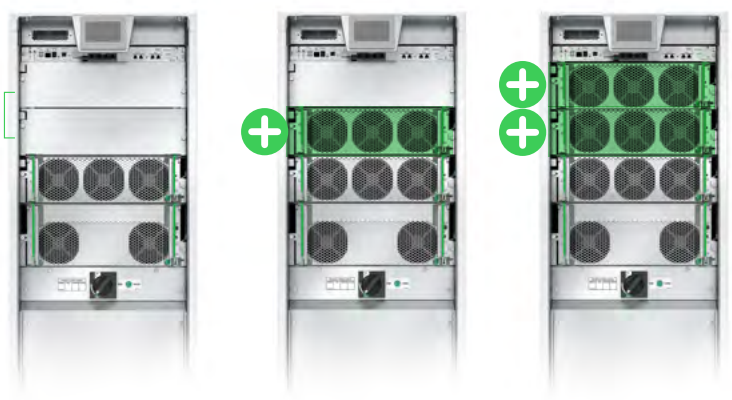

	Galaxy VS for external batteries	Galaxy VS with internal smart battery modules		
400 V	20 – 150 kW	10 – 20 kW	10 – 50 kW	20 – 100 kW
N+1 redundancy option*	Yes	No	No	Yes
Scalability option*	Yes	No	No	No
Dimensions (HxW)	1500 x 530 mm	1500 x 350 mm	1500 x 530 mm	1970 x 530 mm
Battery type	External. Compatible with Lithium-ion and lead-acid (VRLA)	7Ah (VRLA)	9Ah (VRLA) Standard or long life	9Ah (VRLA) Standard or long life
Battery strings in UPS (maximum)	–	2	4	5
Ingress protection level	IP21 (IP22 and IP52 options)	IP20	IP20	IP20
Special features:	Large cabling section provides convenient access, connection and installation. Models with Live Swap capability and scalability available.	Models with Live Swap capability available.	Compatible with external modular battery cabinets (up to 6 battery strings). Models with Live Swap capability available.	Compatible with external modular battery cabinets (up to 9 battery strings). Models with Live Swap capability available.

Future-proof your data center

Galaxy VS UPS with optional scalability empower you to right-size your power protection to today's load requirement, then change UPS capacity as your load requirements evolve over time.

- Add 20 kW and 50 kW power modules, combined as needed
- Galaxy VS UPS self-detects the addition of a new power module and automatically updates its configuration setting

In addition, Galaxy VS UPS models with third-party verified Live Swap maximize uptime, availability, and power continuity by enabling you to swap out power modules quickly, with no scheduled downtime.



** See technical specifications table for details*

Faster installation and serviceability

Quick to install and fits everywhere, thanks to its compact design

- Lightweight, small footprint, with rolling casters
- Ships with everything you need — Network Management Card (NMC), modbus, single and dual mains, air filters, and eight dry contacts
- Precise and reliable battery configuration, thanks to predefined battery parameters
- Set up a simplified 1+1 parallel configuration using the built-in internal maintenance bypass breaker, or use an external maintenance bypass panel to configure parallel installations for capacity or redundancy
- Supports a common battery bank for parallel installations
- Supports installation with NEMA 2-hole lugs

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

- Fast mean time to repair, thanks to swappable power, static switch, battery, and intelligence modules
- Full-front access for simple and fast connection and service (Galaxy VS for external batteries)
- Reduces risk of human error and load drop, and enhances employee protection:
  - For Galaxy VS UPS with the Live Swap option, it is simple and fast to add, replace, or remove a power module while the Galaxy VS UPS is online and fully operational, increasing protection for your employees
  - Galaxy VS self-detects the new power module and automatically updates its configuration settings, delivering more uptime and convenience
  - If needed, the easy and intuitive guided maintenance bypass transfer sequence on the display helps you easily transfer to and from maintenance bypass and monitors the system breaker status

Modular design benefits

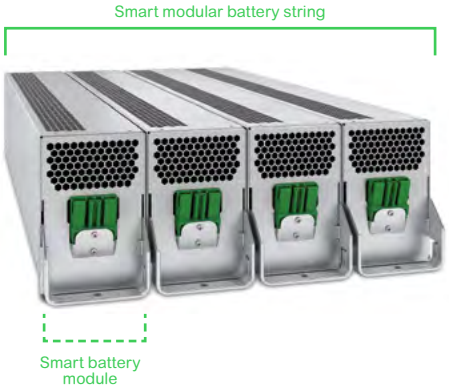
1. **Intelligence module**
   "System brain" contains critical control and signal wire interfaces
2. **Scalability option**
   Add new power module anytime as your load evolves
3. **Power modules**
   N+1 redundancy, Live Swap, slide in/slide out modules with rear connectors. Includes fan box for simple replacement. Superb core performances (PF=1, high-density, high-efficiency) and fault-tolerant design
4. **Static switch module**
   Replaceable without installing an external maintenance bypass solution
5. **Internal maintenance bypass**
   Simplifies service operations and reduces risk of error
6. **Smart modular battery strings**
   Integrates smart battery modules in the UPS cabinet, conserving footprint and increasing availability with battery monitoring, additional battery strings, and fast runtime expansion with self-configuring modules

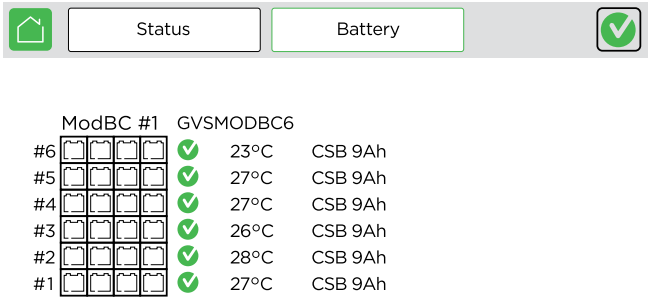
Galaxy VS for external batteries

Galaxy VS with internal batteries

Flexible, intelligent energy storage

Galaxy VS is available with a full range of energy storage options that ensure the best performance in any environment and meet a wide variety of site requirements.





Improved availability, including long-life options

- **Increased availability:** Four smart battery modules form one smart modular battery string. All smart battery modules support the load, so no individual battery is a single point of failure
- **Reduced Mean Time To Repair (MTTR):** Replace a smart battery module in just a few minutes

Battery monitoring included

- **Sensors:** Each smart battery module contains two temperature sensors and a battery identification device for self-configuration
- **Runtime:** The estimate on the display interface updates when smart battery modules are removed or installed
- **Quick status on display:** Use the UPS display to quickly identify and replace an inoperative smart battery module

Accurate anytime replacement

- **Simple:** Push-in and plug; unplug and pull-out
- **Safety first:** Touchproof connectors
- **Self-configuring:** The UPS automatically detects the presence and type of batteries, so the battery configuration is updated accurately

Flexible, high-density energy storage

- **Right-sizing:** Easily increase runtime by adding battery modules or installing battery cabinets
- **High density:** Integrate batteries in the UPS to reduce footprint. No need for service clearance between battery rows

Long-life Galaxy Lithium-ion batteries

As a first mover with a vast installed base, Schneider Electric has developed its own Galaxy Lithium-ion battery solutions that also deliver these benefits:

- Double your battery life compared with any VRLA battery, optimizing TCO and achieving sustainability targets
- Recharge 2 – 3x faster than VRLA solutions
- High temperature tolerance
- Galaxy Lithium-ion Battery Cabinets: Streamlined installation with internal power supply

Click here

for Lithium-ion / VRLA battery comparison

Classic VRLA batteries

- Quickly install the battery cabinet next to the UPS
- Compact footprint

Options and accessories

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

Batteries

Galaxy Lithium-ion battery cabinets

Classic battery cabinets

Battery breaker box

Modular battery cabinets

Maintenance bypasses

Wall-mount maintenance bypass panel

Parallel maintenance bypass panels

Accessories

- Seismic kit
- Mounting skid for marine or industrial applications*
- Air filter kit
- Parallel communications kit
- IP22 kit
- IP52/NEMA 12 kits**
- Battery breaker kit
- Smart modular battery string
- Smart modular high capacity battery string
- Smart long-life high capacity battery string
- Galaxy VS Live Swap upgrade kit
- Remote Alarm Panel
- Fire Marshal Kit (Japan)
- Regenerative Energy Braking Box for External Resistor Bank

IP52 / NEMA 12 kit for UPS**

IP52 / NEMA 12 kit for battery cabinet**

Mounting skid for marine or industrial applications

** Contact your local representative for availability.*
*** Model dependent; contact your local representative for order details.*
****For 3-Phase UPS with NMC3 or NMC4 purchased from April 2024. Learn more about the Secure Network Management Card System here: https://www.se.com/secure-nmc*

Visibility and peace of mind

Secure Network Management Card System *

Bolster your cybersecurity strategy with firmware updates
As cybersecurity is a leading concern for business interruptions, the **Secure Network Management Card (NMC) System** is our commitment to deliver secure products, utilizing secure development processes, and reliable update management reducing exposure to cybersecurity attacks.

The Schneider Electric Network Management Card is independently certified to the IEC 62443-4-2 standard by TÜV Rheinland. Additionally, our development processes are certified to both IEC and ISA Security Standards.

Updating your NMC firmware matters

Monitoring and alarming
Remote monitoring and visibility across IT infrastructure is mission critical, because it reduces the risk of unexpected issues and downtime.

Wherever-you-go visibility
The Schneider Electric Network Management Card enables essential and secure remote monitoring and management of your Galaxy VS.

Preventative management
Connecting your devices will improve the availability, resiliency, and efficiency of your power infrastructure systems and the IT workloads they support.

Ongoing security compliance
More and more cybersecurity breaches are linked to neglected firmware. Our new Secure NMC System will help you:

- Reduce exposure to attack and minimize downtime—protect your connected devices with the latest security updates.
- Achieve consistent compliance—protect your business with the only NMC firmware independently certified to the highest cybersecurity compliance level (IEC 62443-4-2).
- Never become out of date—during commissioning of your Galaxy VS and during maintenance activities, Schneider Electric qualified services representative update the NMC firmware as defined in all applicable field advisories and field modifications.

Learn more at se.com/secure-nmc

** Requires an Advantage Plan service contract or EcoCare for 3-Phase UPS membership with on-site maintenance; contact your Schneider Electric representative for availability.*

EcoStruxure IT enables resilient, secure, and sustainable data centers and IT environments

Schneider Electric's comprehensive Data Center Infrastructure Management (DCIM) solution, EcoStruxure IT, ensures business continuity by enabling secure monitoring, management, insights, planning, and modeling—whether from a single IT rack to hyper-scale IT—on-premises, in the cloud, and at the edge.

Easy visibility
Monitoring and management software streamlines data center device management:

EcoStruxure IT Expert provides you a hands-on approach with cloud-based monitoring software that synthesizes and analyzes performance and alert data into proactive recommendations and enables wherever-you-go visibility from any device. Try it now: https://community.se.com/t5/Get-started-with-EcoStruxure-IT/Get-started-with-EcoStruxure-IT/ta-p/447135

EcoStruxure Data Center Expert is a scalable end-to-end on-premise monitoring software that collects, organizes, and distributes critical device information, providing a comprehensive view of your company-wide, multi-vendor physical infrastructure.

Operations, optimized
Planning and modeling software transforms data into performance insights:

EcoStruxure IT Advisor is a data center infrastructure planning and modeling solution that provides Data Center Managers in large enterprises and colocation data centers with full insights into their infrastructure to improve profitability, sustainability, and resiliency.

Improved uptime with the right service plan

EcoCare membership, a next-generation service plan from day one

An innovative product needs an innovative service. EcoCare membership is a service plan that helps keep UPSs up and running through advanced analytics and AI models combined with priority access to technical experts.

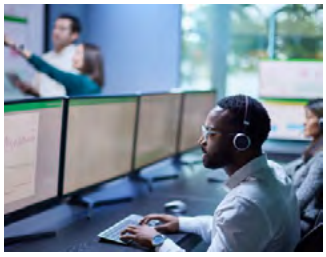
How does it work?

Critical UPS data points such as wear, aging, and temperature of key components are analyzed within our EcoStruxure IoT platform, monitored 24/7 by our Connected Services Hub, delivering key benefits such as:

Priority access to technical support

Efficient maintenance tomorrow

Optimized lifespan and budget management



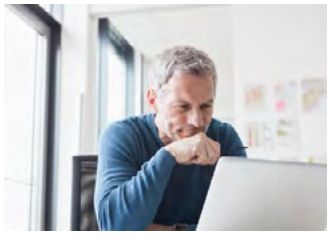
Exclusive support in case of emergency

EcoCare members get the right support at the right time with:

- **24/7 remote monitoring and alarming** from our Connected Services Hub, allowing us to proactively identify and address any anomalies before they disrupt your operations.
- **Premium access to technical experts**, on-site and remotely, along with Customer Success Managers and preferred SLAs, helping to reduce Mean Time to Repair (MTTR).
- Access to **training resources** designed to empower your team to troubleshoot in case of anomalies, as well as exclusive member rates on spare parts, training, and on-site intervention.

Efficient maintenance tomorrow

From day one, we will collect operational data and remotely monitor each asset and component condition to enable a **condition-based maintenance approach** in the future, leveraging our Maintenance Index. This approach helps **optimize on-site maintenance** activities **and improve uptime** by adjusting the maintenance intervals as required, based on the current condition of the equipment, while helping to reduce operational costs.



Optimized lifespan and budget management

We provide continuous insight into the overall health of the equipment by providing the **remaining useful life for each individual critical component** of your UPS with our Health Index, **reducing the need for premature replacements** and associated capital expenditures, and avoiding carbon footprint.

Learn more

** EcoCare for 3-Phase UPS is being progressively launched; contact your Schneider Electric representative for availability*

Why Schneider Electric Services?

Our EcoStruxure IoT platform utilizes proprietary AI models built on exclusive manufacturer knowledge to deliver condition-based services. These models are refined by 300+ in-house data scientists, leveraging data from the industry's largest installed base. With over 6,000 electrical and cooling engineering experts, including remote specialists, on-site technicians, and dedicated Customer Success managers, we help ensure EcoCare members' success and the efficiency of their operations.

Technical specifications

Galaxy VS	400 V
Topology	On-line double conversion
Nominal power (kW)	10 – 150 kW (parallel up to 600 kW) [4 UPSs in parallel]
Key features	
Scalability option	50 – 150 kW
N+1 redundancy option	20 – 50 kW N+1
Modular elements	Power modules with Live Swap, static switch module, smart battery modules, intelligence module
Display	Color touch screen, 4.3 inches, status LED, mimic on display
High priority for C&I	Network management card included with ethernet (SNMP) and modbus. 8 dry contacts (4 inputs, 4 outputs)
Maintenance bypass	Internal maintenance bypass. Optional maintenance bypass panel
Parallel capability	Simplified 1+1 parallel (for redundancy); Up to 4 UPSs in parallel for capacity or redundancy
Efficiency	
Double conversion mode	Up to 97%
ECO mode	Up to 99%
ECOnversion mode	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 – 70 Hz
Input power factor	IEC power factor: >0.99 @ load >25%, >0.95 @ load > 15%
Maximum short-circuit rating	65 kA
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	50/60 Hz +-0.1% free running
Overload	1 min @ 150%; 10 min @ 125%
Output THDU on linear load	<1%
Battery type	VRLA, Lithium-ion
Nominal battery voltage, UPS for external batteries	480 – 576 V (at ratings 50 kW, 100 kW, 150 kW); 60 kW: 432 – 576V; 384 – 576 V (at other ratings, including 60 kW and 120 kW)
Nominal battery voltage, UPS with internal batteries	480 VDC
Charging power	Charging power in % of output power at 0 – 40% load: 80% Charging power in % of output power at 100% load: 20%
Environment	
Acoustic noise, UPS for external batteries	57 dB (70% load) / 65 dB (100% load)
Acoustic noise, UPS with internal batteries	54 – 65 dB, depending on load percentage and model
Dust protection	Air filter included. Conformal coated boards
Seismic	With optional kit. OSHPD tested
Environmental	Product Environmental Profile (PEP), RoHS, REACH

Specifications can be subject to change.

To learn more about the Galaxy VS UPS and EcoStruxure IT cloud-based DCIM, contact your Schneider Electric representative or visit **se.com/gvs**

About Schneider Electric

Schneider Electric is a global energy technology leader, driving efficiency and sustainability by electrifying, automating, and digitalizing industries, businesses, and homes. Its technologies enable buildings, data centers, factories, infrastructure, and grids to operate as open, interconnected ecosystems, enhancing performance, resilience, and sustainability. The portfolio includes intelligent devices, software-defined architectures, AI-powered systems, digital services, and expert advisory. With 160,000 employees and one million partners in over 100 countries, Schneider Electric is consistently ranked among the world's most sustainable companies.

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