

Galaxy VX

Highly efficient, scalable, 3-phase power protection with flexible operating modes and eConversion for large facilities, data centers, and business-critical applications.

500-1500 kW
380 / 400 / 415 / 440 / 480 V



se.com/ups

Life Is On

Schneider
Electric

Scalable, flexible, high-performance power protection

Meet the changing needs of your rapidly expanding business

Galaxy VX is a highly efficient, modular 3-phase UPS scalable from 500 kW to 1500 kW that provides high performance, scalability, and flexibility. Its scalability accommodates the changing needs of your growing business, and its exceptional performance and abundance of cost-saving features reduce your energy costs and total cost of ownership (TCO). Galaxy VX is the ideal UPS for today's large data centers, cloud, and colocation facilities, as well as mission-critical applications.

- Powers the AI revolution, with rigorously tested performance and efficiency in demanding conditions
- Reduces TCO with up to 99% efficient, third-party certified Class 1 eConversion operating mode
- Enables on-site UPS expandability with 250 kW power cabinets and the ability to parallel up to four units for capacity or redundancy
- Improves UPS reliability and lifecycle with patented four-level inverter technology
- Speeds up your deployment time, increases on-site reliability, and reduces start-up costs with Smart Power Test (SPoT) mode
- Compatible with low TCO, high-performance Lithium-ion batteries
- Lowers maintenance and replacement costs with modular architecture

Powering the AI revolution with fault-tolerant UPS infrastructure

The high-density requirements of AI workloads are pressuring data center and colocation operators and hyperscalers to expand fast. As operators look for ways to meet demand, one area they must pay close attention to is power protection infrastructure. Schneider Electric leads the way in providing AI-tolerant UPSs to help safeguard multimillion-dollar AI investments.

Our Galaxy VX 500-1500 kW UPS solution is an ideal choice for AI infrastructure

- Proven performance: Galaxy VX is rigorously tested for next-generation AI compute demands, ensuring they can support dramatic, rapid power load fluctuations without interruption.
- Scalability and flexibility: A modular design enables power protection infrastructure to grow alongside AI infrastructure, whether in data centers, colocation facilities, or hyperscale sites.
- Efficiency and sustainability: Galaxy VX is highly efficient, enabling businesses to leverage their AI investments while remaining energy-conscious and cost-effective.

Key advantages and innovations



99% efficient in eConversion mode

Recover your initial investment within 2–3 years through energy savings.



Patented hybrid technology

Provides up to 96.5% efficiency in double conversion mode.



Battery flexibility, including Lithium-ion batteries*

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



Maximum availability thanks to modular architecture

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



EcoStruxure IT

Monitor, manage, and model your IT infrastructure, and get service support, anytime, anywhere.*

**Contact your local representative for availability.*

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



Data center

- Large and extra-large data centers
- Cloud and colocation facilities
- Artificial intelligence



Transportation

- 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



Oil & gas

- Refining
- Petrochemicals
- Gas processing control
- Well pumps



Power & Grid

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



Industrial processes

- Semiconductor manufacturing

Next-level transparency for better-informed product choices.

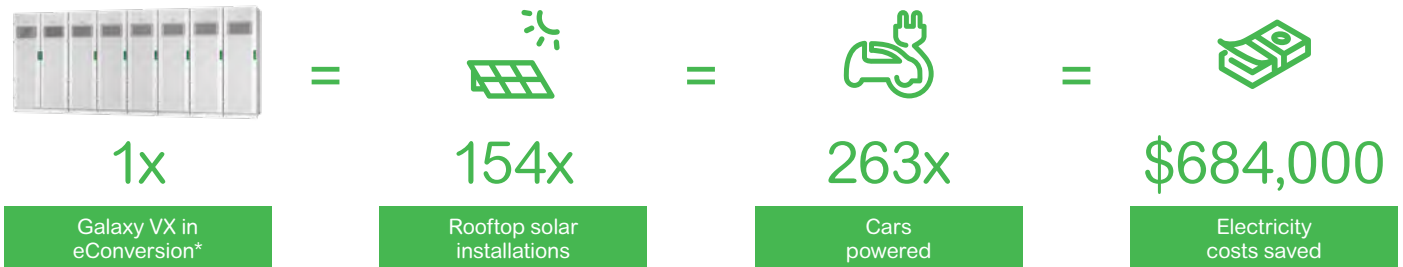


Environmental Data Program

Learn more about the **Environmental Data Program** at: [se.com/ww/en/about-us/sustainability/environmental-data-program](https://www.se.com/ww/en/about-us/sustainability/environmental-data-program)

Premium protection and sustainability

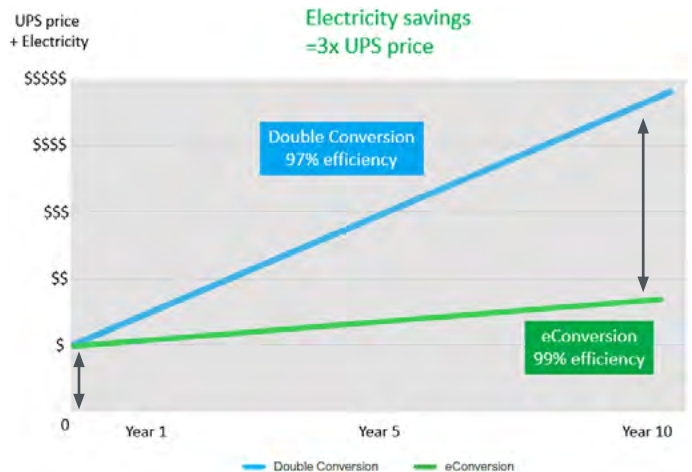
eConversion: an unbeatable combination of power quality and high efficiency



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.



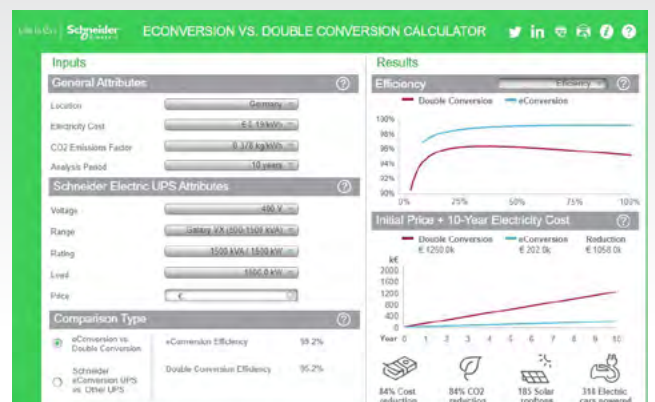
Calculate your savings

See how much you can save with Galaxy VX in eConversion mode. Use our quick calculator to compare energy costs, operating expenses, and CO₂ 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](#)



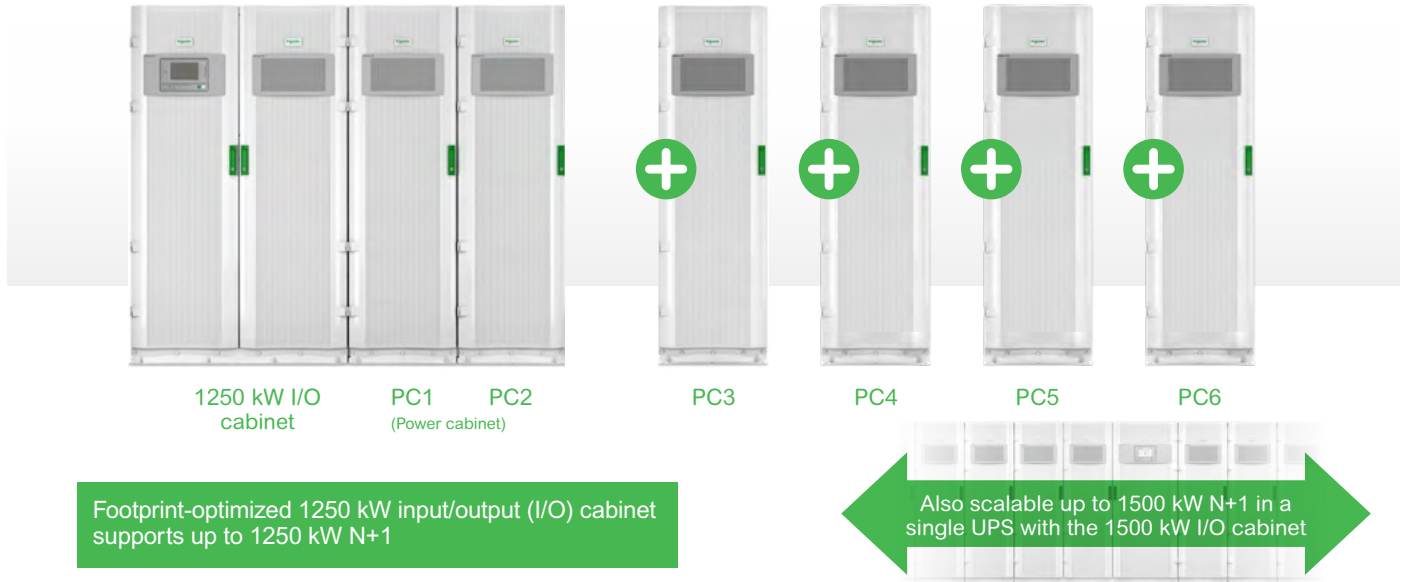
*Model dependent; based on a market electricity price: \$0.15 /kWh. The annual electricity savings are calculated by comparing the UPS efficiency in eConversion mode vs. double conversion mode.

Simple scalability

Modular design

The Galaxy VX system scales using 250 kW power cabinets. Power cabinets can be added after initial installation to allow for load growth or increased redundancy.

Expand Galaxy VX from 500 kW up to 1500 kW N+1



Flexible, optimized, long-life energy storage with lithium-ion

Save space and the environment

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

- Optimize TCO and achieve sustainability targets by **doubling** your battery life
- Recharge **2-3x faster** than VRLA solutions
- Simplify and speed up installation with our internal power supply
- Enhance battery safety with three levels of battery management system (BMS)

To learn more about Lithium-ion battery solutions, visit: www.se.com/li-ion

Lithium-ion compared to VRLA batteries

Four circular icons highlighting the benefits of lithium-ion batteries compared to VRLA batteries:

- Higher** operating temp. (less cooling)
- 2 – 3X** expected life
- 60 – 70%** less weight
- 2 – 3X** Faster recharge



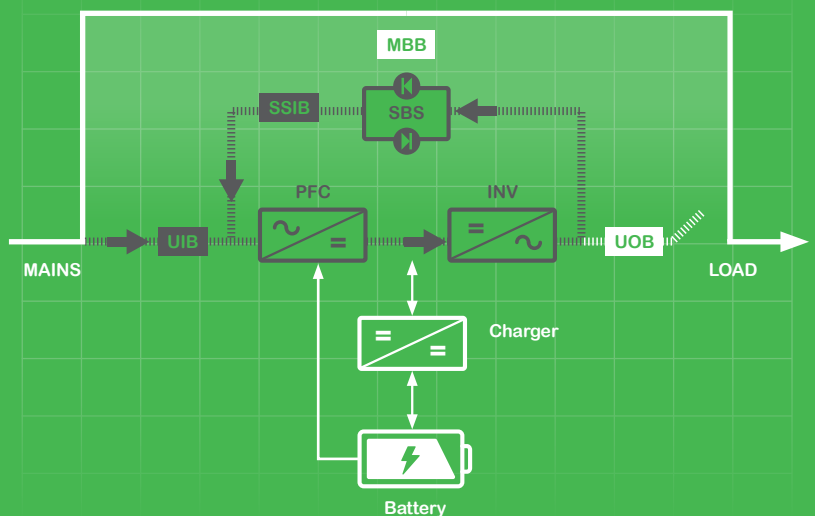
Increase reliability and streamline deployment

Speed up deployment time, reduce start-up costs, and increase onsite reliability of the UPS operation by using the Smart Power Test (SPoT) mode before connecting your critical load.

SPoT (Smart Power Test)

SPoT enables the field service engineer (FSE) to test the UPS with full capacity current flow through important components and converters, without using a large system input current and without needing a load bank connected to the system or other system modifications.

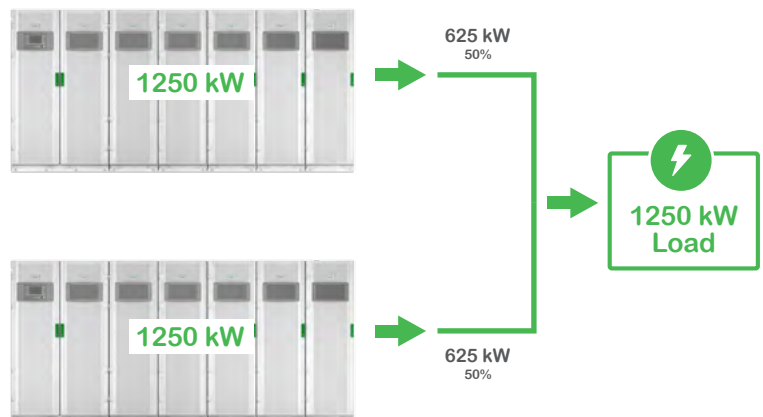
- Simple, easy, and safe method to test the UPS at full power
- Can be conducted after service, repair, upgrade, or commissioning of UPS installation to verify system is properly installed
- Reduce risk to load and improve product quality
- Significant cost, time, and power savings



Increase reliability and peace of mind by adding a power module cabinet to achieve N+1 redundancy, or by paralleling up to four UPSs for capacity or redundancy.

Smart paralleling and fault-tolerant design

Galaxy VX inherently redundant design allows for any power cabinet to act as a redundant 250 kW block. Load sharing in parallel is done by matching the percentage output of each system depending on capacity availability. Redundant parallel communication cables increase overall system resiliency.



Installation and serviceability

Convenient installation

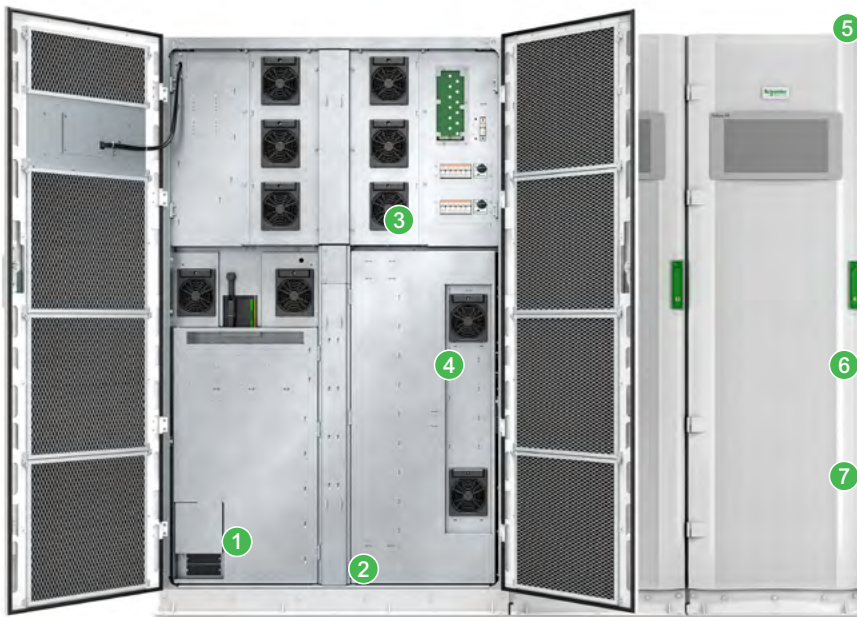
- Fast and easy installation provided by Schneider Electric field service team
- Power cabinets with casters roll into place
- HMI display includes network communication card
- Install back to back or against a wall
- Compatible with skid and containerized systems
- Secure installation with mechanical anchoring brackets
- OSHPD seismic rating certification

Designed for efficient service

- Front access only for all service and repair tasks
- Field replaceable power modules
- Modular fault-tolerant power blocks reduce mean time to repair



Inside the Galaxy VX redundant and scalable UPS



- 1 Backfeed contactor**
Included in the UPS to meet local electrical codes and increase user safety
- 2 Redundant power supply**
Included in the I/O cabinet to enhance reliability
- 3 Static switch**
Fully rated, with front-to-back airflow
- 4 Main controller / bypass controller redundancy**
If the main controller goes offline, the bypass controller will operate the UPS
- 5 Fiber optic communication**
Fast and clear internal communication increases system reliability
- 6 Power modules in power cabinet**
42 kW single phase power block is easy to replace with a low mean time to repair (MTTR)
- 7 Replaceable fans**
Replace fans while the UPS is online

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 VX.



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 VX and during maintenance activities, Schneider Electric qualified service personnel update the NMC firmware as defined in all applicable field advisories and field modifications.

Learn more at <https://www.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.

24/7 peace of mind

Digital services proactively monitor your critical devices:



EcoStruxure Asset Advisor* for secure power and cooling provides you a hands-off approach with 24/7 remote monitoring service by the Schneider Electric Connected Services Hub experts. We monitor and troubleshoot, you relax.

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.

[Try it now](#)

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:



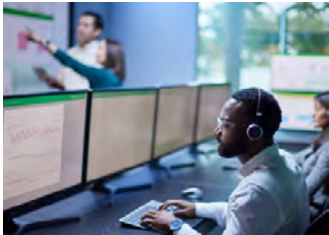
Priority access to technical support



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.

* 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 VX Technical Specs		500 kW to 1500 kW UPS
Topology	On-line double conversion with eConversion mode	
Nominal Power (kVA)	500-1250 kW (1250 kW input/output cabinet) 500-1500 kW (1500 kW input/output cabinet)	
Technical Power Ratings	500 kW, 625 kW, 750 kW, 800 kW, 1000 kW, 1100 kW, 1250 kW, 1500 kW	
Parallel capability	Up to 4 units (N+1)	
Input		
Rectifier Type	IGBT active rectifier	
Nominal Input Voltage	380/400/415/480 V, 3-wire (3PH + PE) or 4-wire (3PH + PE + N) (600 V with optional external transformer)	
Input Voltage Range	+20% / -15%	
Input Connection	Single or dual feed	
Input Frequency	50 or 60 Hz nominal (40-70 Hz)	
Input Current Total Harmonic Distortion (THDI)	< 3% @ 100% load	
Input Power Factor	> 0.99	
Walk-in	0 to 300s (configurable)	
Short Circuit Withstand Rating	100 kA	
Output		
Inverter Type	4 Level IGBT, high efficiency, transformerless	
Nominal Output Voltages	380/400/415/480 V, 3-wire (3PH + PE) or 4-wire (3PH + PE + N) (600 V with optional external transformer)	
Load Power Factor	0.7 leading to 0.5 lagging without UPS derating	
Voltage Regulation	+/- 1%	
Frequency Regulation	50/60 Hz +/- 0.1% (free running)	
Overload in Normal Operation (at 40 °C)	Continuous up to 110% 10 minutes up to 125% 1 minute up to 150%	
Overload in Bypass Operation (at 40 °C)	Continuous up to 110% (380/400/415/480 V) Continuous up to 125% (480 V) 1 minute up to 150% (all voltages)	
Output Voltage Distortion (THDU)	<2% at 100% linear load; <3% at 100% nonlinear load	
Output Power Factor	1.0 kVA = kW	
Efficiency details		
Double conversion mode	Up to 96.5%	
eConversion mode	Up to 99%	
Energy storage parameters		
Type	Lithium-ion, VRLA, Wet Cell, Flywheel	
Nominal DC Bus Voltage	480 VDC	
Common battery string	Yes (VRLA only)	

Technical specifications

Galaxy VX Technical Specs		500 kW to 1500 kW UPS
Communication		
Multilingual Graphics LCD Display	Yes	
Compatibility with Network Management Cards	Two free slots supports AP9640, AP9641, or AP9643	
Communication Details	Modbus TCP/IP, SNMP, Email Modbus RS-485 (optional)	
Mechanical dimensions		
1250 kW I/O Cabinet (H x W x D)		
500 kW	77.6 x 94.4 x 35.4 in (1970 x 2400 x 900 mm)	
625/750 kW	77.6 x 118.1 x 35.4 in (1970 x 3000 x 900 mm)	
800/1000 kW	77.6 x 141.6 x 35.4 in (1970 x 3600 x 900 mm)	
1100/1250 kW	77.6 x 165.2 x 35.4 in (1970 x 4200 x 900 mm)	
1250 kW N+1	77.6 x 188.8 x 35.4 in (1970 x 4800 x 900 mm)	
1500 kW I/O Cabinet (H x W x D)		
500kW	77.6 x 126 x 35.4 in (1970 x 3200 x 900 mm)	
750kW	77.6 x 149.6 x 35.4 in (1970 x 3800 x 900 mm)	
1000 kW	77.6 x 173.2 x 35.4 in (1970 x 4400 x 900 mm)	
1250 kW	77.6 x 196.9 x 35.4 in (1970 x 5000 x 900 mm)	
1500 kW	77.6 x 220.5 x 35.4 in (1970 x 5600 x 900 mm)	
1500 kW N+1	77.6 x 245.1 x 35.4 in (1970 x 6200 x 900 mm)	
Standards and approvals		
Performance and Safety	UL 1778 5th edition, cUL CE, IEC 62040-1 IEC 62040-3 (VFI-SS-111)	
EMC Emissions	FCC 47 Part 15 IEC 62040-2	
Seismic	OSHPPD IBC 2012	
Surge	ANSI 62.4/B3	
IP level (Ingress Protection)	IP20	
Environment		
Operating Temperature	0–40 °C (32–104 °F) without derating	
Humidity	0–95% noncondensing	
Elevation / Altitude	1000 m (3333 ft) 100% load without derating	
Standard features		
Soft Start, Walk-in Charger for Compatibility with Gensets	Yes, Adaptive, Configurable 1 to 300s	
Cold Start Function (start without mains)	Yes	
Emergency Stop (EPO)	No	
Frequency Converter	Yes	
Backfeed Protection	Yes	
Smart Power Test (SpOT)	Yes	

Life Is On



To learn more about the Galaxy VX UPS and EcoStruxure IT DCIM, contact your Schneider Electric representative or visit se.com/ups

About Schneider Electric Schneider's purpose is to empower all to make the most of our energy and resources, bridging progress and sustainability for all. We call this Life Is On.

Our mission is to be your digital partner for Sustainability and Efficiency.

We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure, and industries.

We are the most local of global companies. We are advocates of open standards and partnership ecosystems that are passionate about our shared Meaningful Purpose, Inclusive and Empowered values.

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