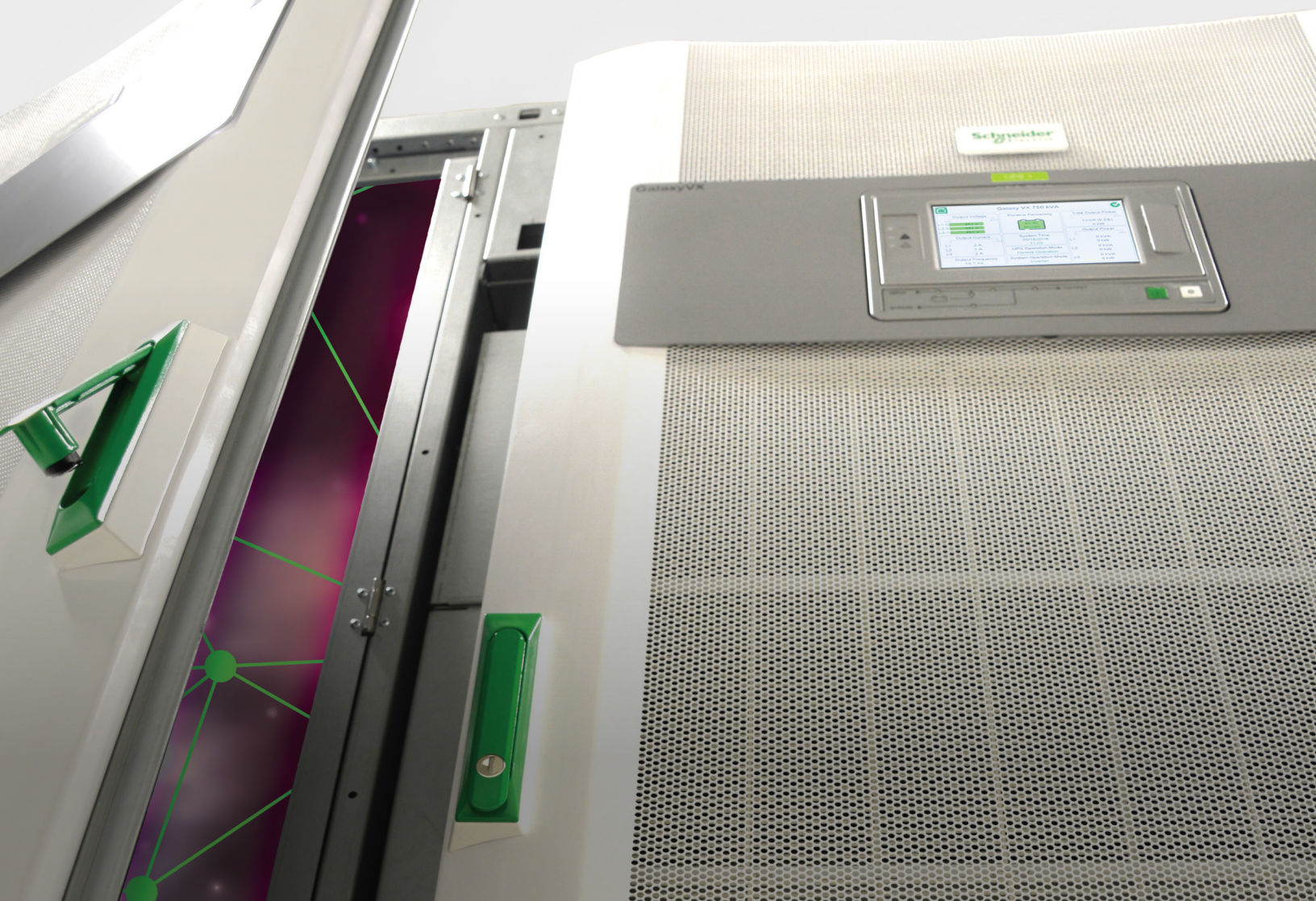




Galaxy VX

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

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



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.

- 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



Key advantages and innovations



99% efficient in patented 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



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

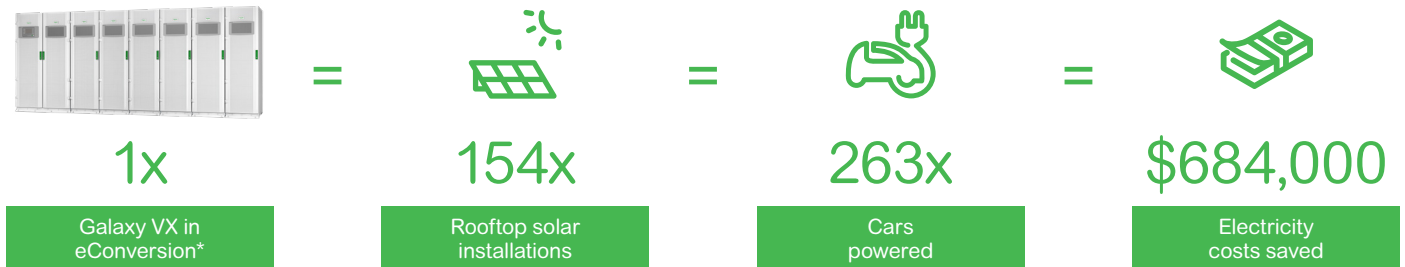


Industrial processes

- Semiconductor manufacturing

Premium protection and sustainability

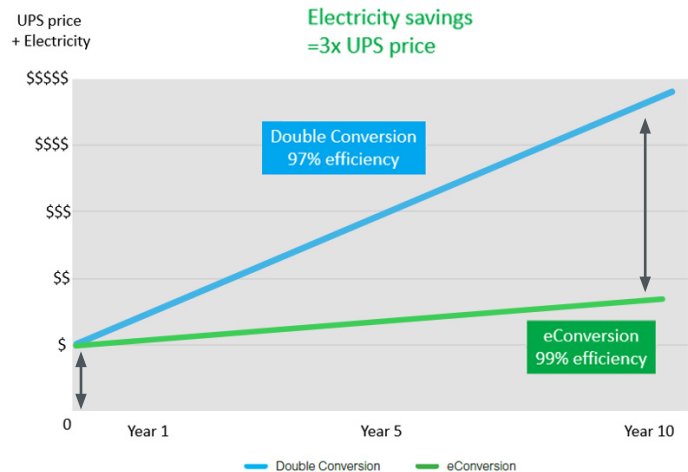
eConversion: an unbeatable combination of power quality and high efficiency



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.



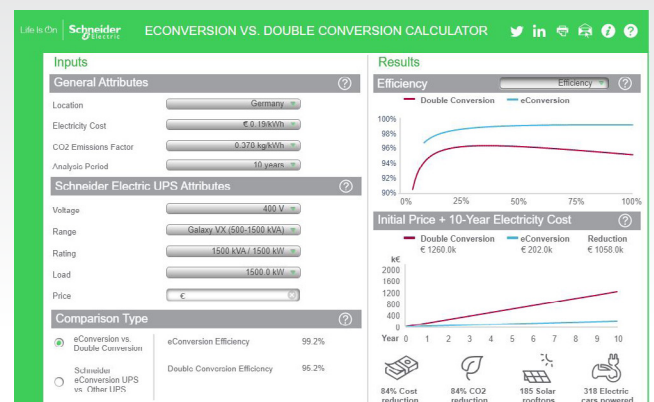
Calculate your savings

Use our eConversion vs. Double Conversion Calculator to quickly assess your potential energy savings, operating cost optimization, and CO₂ emissions reduction by comparing the cost of running your Galaxy V-Series UPS in eConversion mode vs. 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](#)



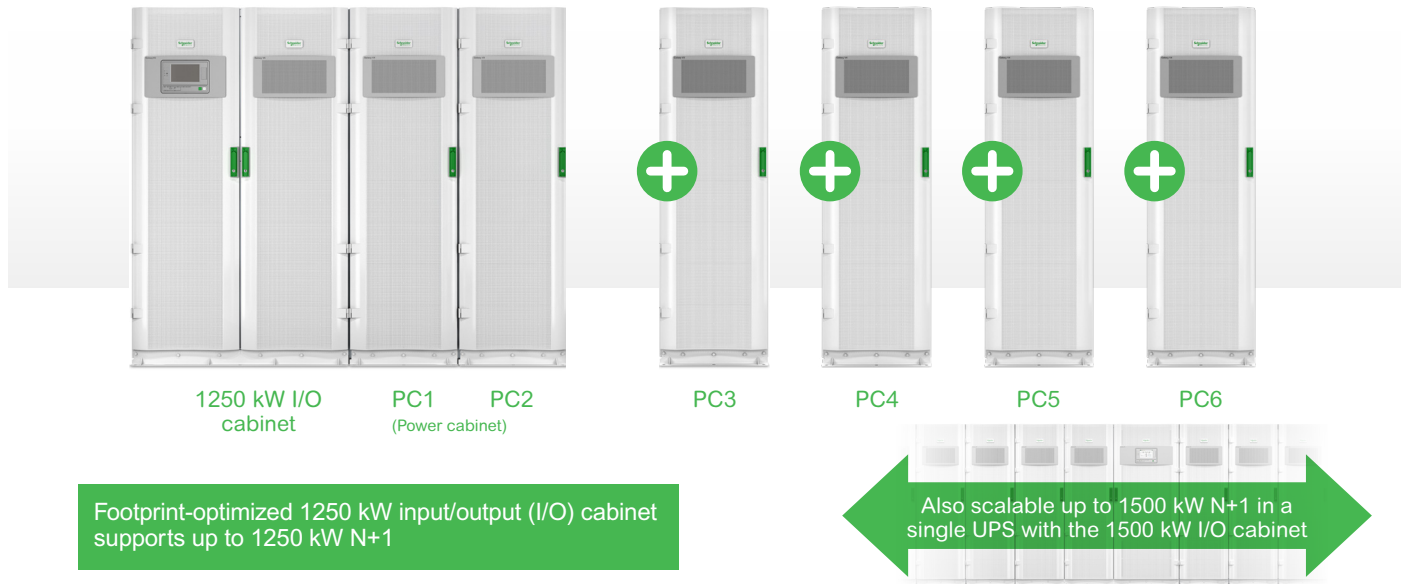
*Model dependent; based on a market electricity price: \$0.15 /kWh. The annual electricity savings are calculated by comparing the UPS efficiency in eConversion mode vs. double conversion mode.

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

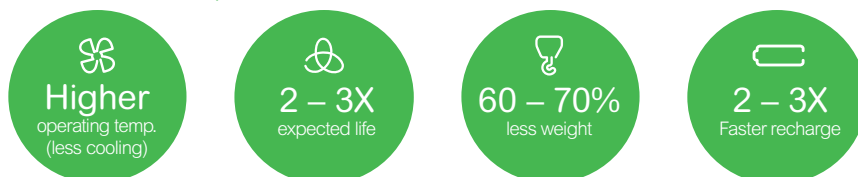
Save space and the environment

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



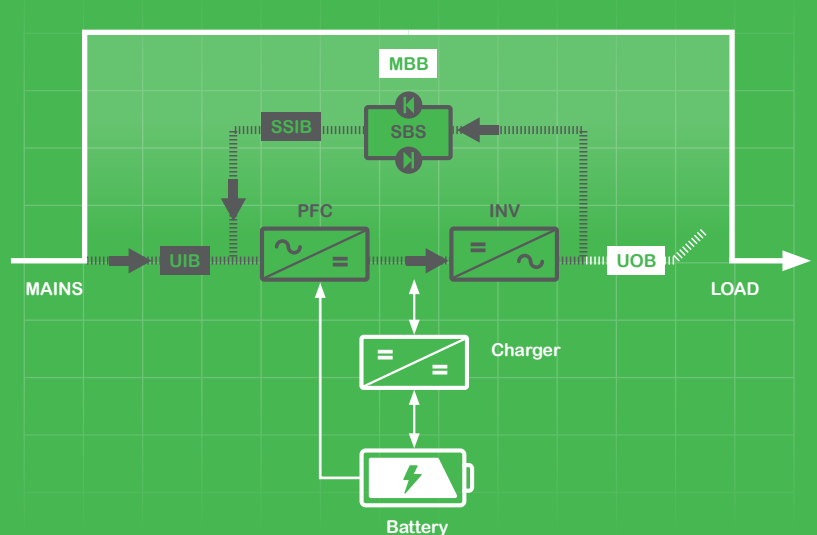
Increase reliability and streamline deployment

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.

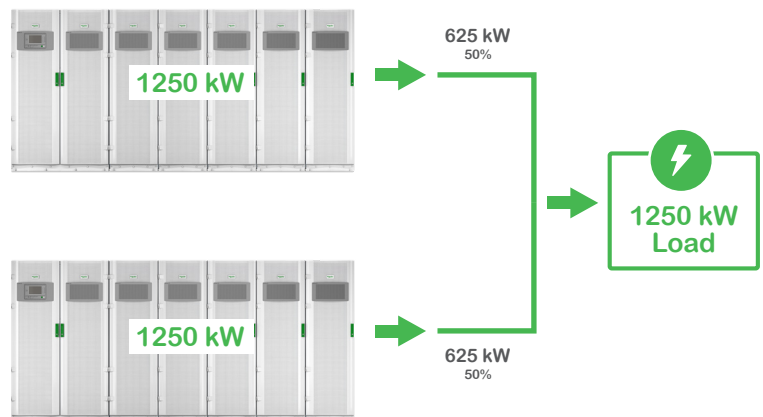
- Simple, easy, and safe method to test the UPS at full power
- Can be conducted after service, repair, upgrade, or commissioning of UPS installation to verify system is properly installed
- Reduce risk to load and improve product quality
- Significant cost, time, and power savings



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

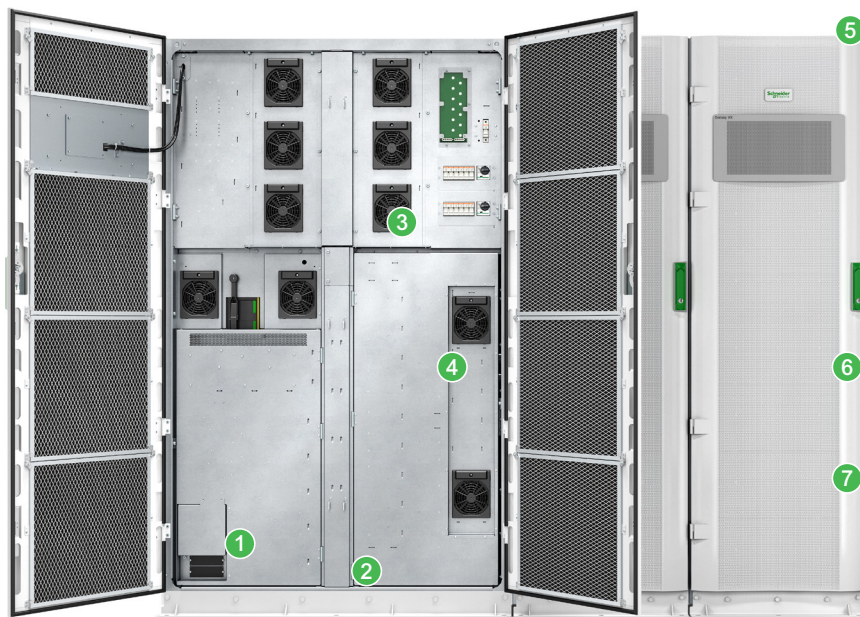
- Fast and easy installation provided by Schneider Electric field service team
- Power cabinets with casters roll into place
- HMI display includes network communication card
- Install back to back or against a wall
- Compatible with skid and containerized systems
- Secure installation with mechanical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

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.



Resilient



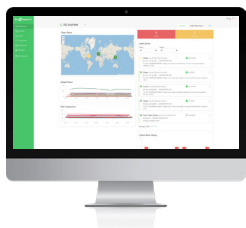
Secure



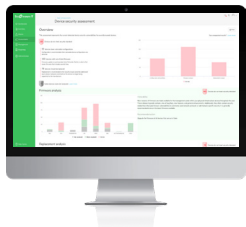
Sustainable

Easy visibility

Monitoring and management software streamlines data center device management:



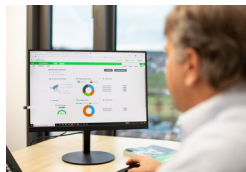
EcoStruxure IT Expert provides you a hands-on approach with **cloud-based** monitoring software that synthesizes and analyzes performance and alert data into proactive recommendations and enables wherever-you-go visibility from any device. Try it now: www.ecostruxureit.com/ecostruxure-it-expert/#trial



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.

24/7 peace of mind

Digital services proactively monitor your critical devices:

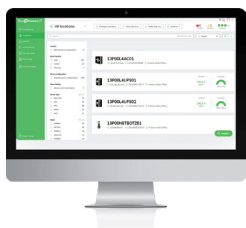


EcoStruxure Asset Advisor* for secure power and cooling provides you a hands-off approach with 24/7 remote monitoring service by the Schneider Electric Connected Services Hub experts.

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.

* Contact your local representative for availability.

Comprehensive on-site services

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

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 V / 400 V / 415 V / 440 V / 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 V / 400 V / 415 V / 440 V / 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 V / 400 V / 415 V / 440 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 APC Communication cards		AP9630	
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		OSHPD 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, Adaptative, 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.