



Galaxy VS

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

10–150 kW
380/400/415 V



se.com/gvs

Life Is On

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 batteries¹

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



New 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, secure monitoring, management, and service support via smartphone app and many more capabilities with EcoStruxure IT DCIM software.

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



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

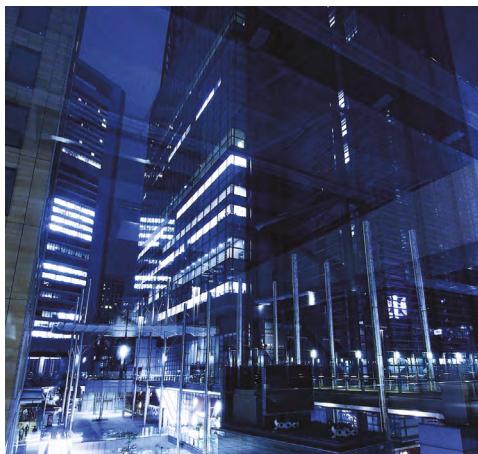
² Contact your local representative for availability.

³ Consult your local representative for more information about configuration requirements, including accessory kits.



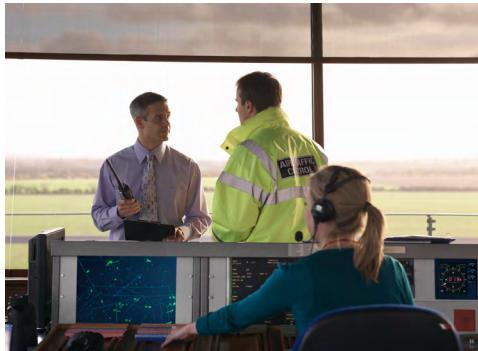
Leading performance

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
- Well suited for different applications thanks to high flexibility on power factor and high overload capability
- Seamlessly integrates into the electrical environment, with single and dual mains support included
- Optimized uptime with wide input tolerance window (+/-15%)
- Right-sized batteries with flexible DC bus



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)



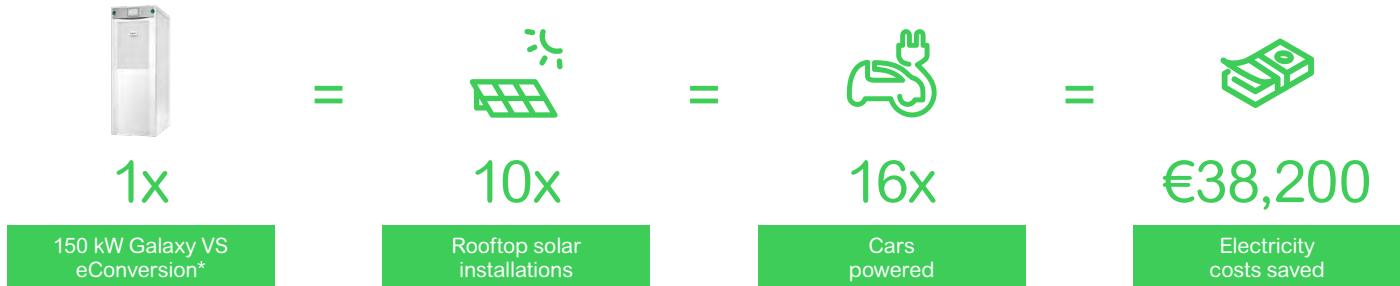
Reliable power for IT and non-IT environments

- 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 **40 °C operating temperature** without derating (50 °C 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 1000m (3000m with derating)
- Models with **halogen-free** power cables available

* model dependent

Premium protection and sustainability

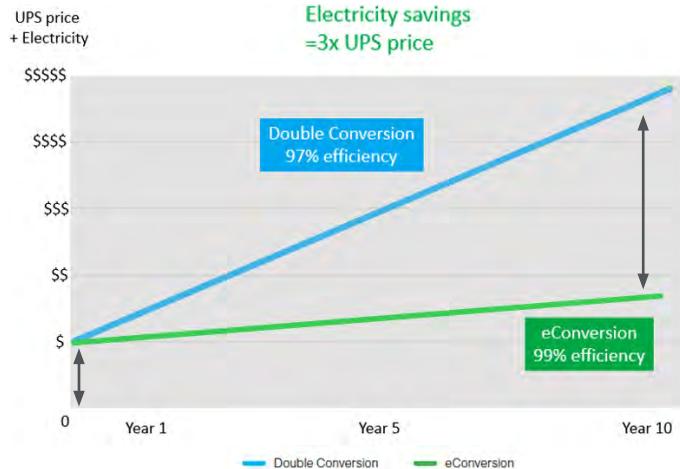
eConversion: an unbeatable combination of power quality and high efficiency



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.



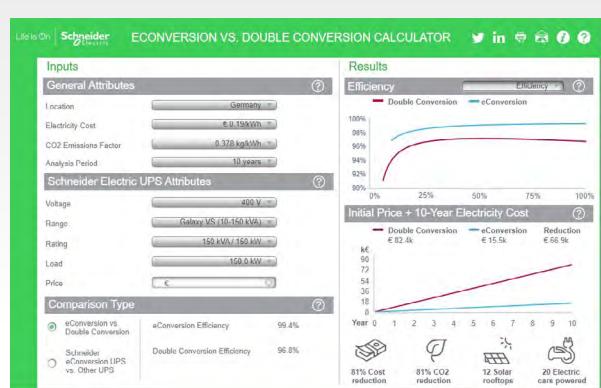
Calculate your savings

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.

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
- Everything you need is available — 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



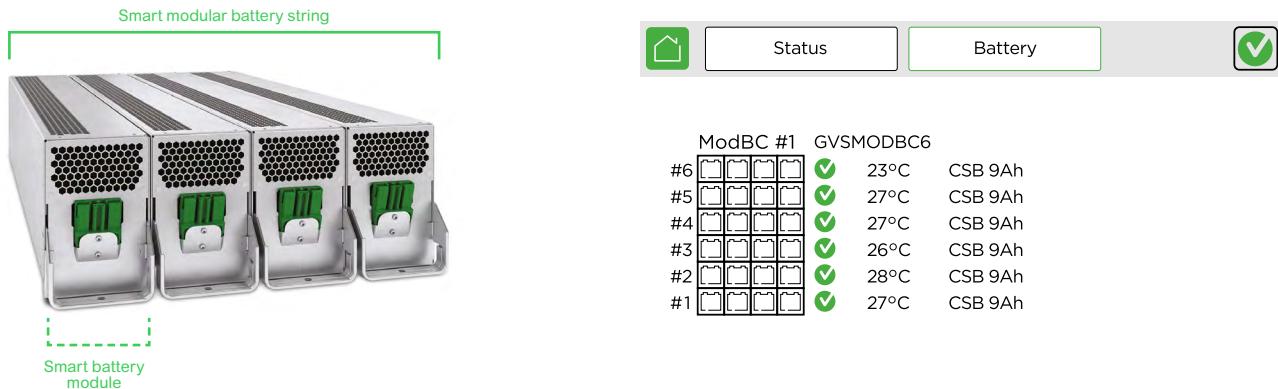
Galaxy VS for external batteries



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

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

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



for Lithium-ion / VRLA
battery comparison

Classic VRLA batteries

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



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.

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

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
- Includes the Secure Network Management Card System with NMC firmware updates***

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

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>

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	
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	RoHS, Reach

Specifications can be subject to change.

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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's **purpose is to create Impact** by empowering all to **make the most of our energy and resources**, bridging progress and sustainability for all. At Schneider, we call this **Life Is On**.

Our mission is to be the trusted partner in **Sustainability and Efficiency**.

We are a **global industrial technology leader** bringing world-leading expertise in electrification, automation and digitization to smart **industries**, resilient **infrastructure**, future-proof **data centers**, intelligent **buildings**, and intuitive **homes**. Anchored by our deep domain expertise, we provide integrated end-to-end lifecycle AI enabled Industrial IoT solutions with connected products, automation, software and services, delivering digital twins to enable profitable growth **for our customers**.

We are a **people company** with an ecosystem of 150,000 colleagues and more than a million partners operating in over 100 countries to ensure proximity to our customers and stakeholders. We embrace **diversity and inclusion** in everything we do, guided by our meaningful purpose of a **sustainable future for all**.

www.se.com

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