CASE STUDY:
National UPS Deployment for High-Load Medical Imaging Systems

Focus Group Technologies

QUICK FACTS

- National Medical Technology Provider
- Angiography & High-Load Imaging Systems
- Schneider Electric Galaxy VS 100kW UPS Platform
- Standardised National Deployment Across Multiple States

The Challenge

Angiography systems generate heavy instantaneous loads during X-ray pulses, image acquisition, and gantry movement. These transient demands required a UPS capable of handling high short-circuit withstand ratings, rapid load changes, and significant overload conditions without performance degradation.

Space constraints presented another complexity. Most imaging rooms cannot accommodate traditional external battery banks or oversized power cabinets. The UPS platform needed to deliver maximum kW per square metre, fit through constrained access paths, and integrate into already crowded environments without disrupting clinical operations or breaching compliance requirements.

The rollout spanned multiple states, each with unique hospital access protocols, induction requirements, delivery windows, and site readiness conditions. Maintaining consistent deployment quality across metro and regional facilities required structured national coordination.

Client Overview

The client is a major medical technology provider operating advanced diagnostic imaging systems across hospitals and specialist facilities throughout Australia. Their angiography platforms require exceptionally stable, clean, and uninterrupted power to maintain clinical accuracy and protect sensitive electronics during procedures.

Even short power disturbances can disrupt imaging integrity, delay critical interventions, or compromise patient care. In addition, installations occur within tightly controlled hospital construction windows or department shutdowns, requiring precise coordination and healthcare-compliant execution.

The client required a nationally consistent UPS solution capable of supporting high and dynamic load profiles while integrating into space-constrained clinical environments.

The Solution

Focus Group Technologies designed a national UPS deployment program built around the Schneider Electric Galaxy VS 100kW platform, specifically aligned to medical imaging workloads.

Detailed electrical load analysis was performed in collaboration with engineering teams to validate transient behaviour and ensure correct sizing for angiography demands. The Galaxy VS was selected for its compact footprint, high overload capability, strong electrical performance, and modular battery architecture—allowing high runtime density within a fully integrated frame.

The modular internal battery design eliminated the need for separate battery cabinets, significantly reducing spatial requirements while maintaining performance integrity.

Across all sites, Focus Group Technologies coordinated delivery, installation, commissioning, and validation within healthcare-specific operating windows. Each installation was executed in alignment with hospital safety standards and electrical compliance requirements, ensuring minimal disruption to clinical environments.

Technology Deployed

Focus Group Technologies standardised a high-density UPS platform purpose-built for demanding medical imaging applications:

- Schneider Electric Galaxy VS 100kW UPS system
- Integrated modular, hot-swappable battery architecture
- Maintenance bypass panel for operational continuity
- National delivery, installation, and commissioning services

This deployment delivered stable, high-density power protection capable of supporting extreme transient imaging loads within space-constrained clinical environments.

The Outcome

The client now operates a nationally standardised UPS platform engineered specifically for angiography systems. Imaging equipment runs with clean, stable, and uninterrupted power, significantly reducing the risk of procedure disruption or equipment downtime.

Space constraints were successfully addressed through the compact Galaxy VS design and internal battery architecture, allowing deployment without room redesign or additional battery enclosures.

The national rollout was executed consistently across multiple states, with each facility receiving coordinated delivery, compliant installation, and validated commissioning. Post-installation testing confirmed reliable performance under surge and transient conditions typical of imaging cycles.

The result is a robust, scalable, and clinically reliable UPS environment that supports both operational continuity and long-term national standardisation.

About Focus Group Technologies

This national UPS deployment reflects how Focus Group Technologies delivers critical infrastructure projects, combining structured planning, technical precision, and consistent execution across complex environments.

Guided by our four pillars, Procure, Perform, Protect, and Power, we source the right solutions, deliver them without disruption, strengthen resilience, and ensure dependable long-term performance.

As an Australian IT solutions provider specialising in Infrastructure, Procurement, AI-Ready Infrastructure, and Power & Cooling, we help organisations align technology investment with operational reliability and business continuity.

Contact Us

From infrastructure and AI-ready environments to resilient power and cooling solutions, our experts can help you plan and implement the right technology for your business.

+61 2 8985 9890

hello@fgtech.com.au