

MEDICAL IMAGING

Ensuring patient safety and providing reliable medical imaging



your energy
our expertise



 **socomec**
Innovative Power Solutions

Your challenges



SITE 840 A

Optimum safety and guaranteed uptime in an increasingly demanding environment

The demands placed upon the healthcare sector have never been greater – and the operating environment is increasingly challenging all over the world. The starting point of effective and accurate diagnostics is investigative medical imaging. The latest imaging systems represent a significant investment and are heavily utilised; these vital assets rely on a guaranteed power supply in order to deliver the optimum performance – ultimately, providing optimum patient safety.



SITE 671 A

Precise dose management and patient care

Dose exposure is a critical factor in patient care; supplying sufficient energy to support the examination whilst managing the level of exposure requires precise control which, in turn, requires reliable and accurate systems.



SITE 637 A

IT processing and Big Data for the medical imaging sector

Never before have information technology, software and Big Data played such an active and critical role in the medical imaging sector. Every member of an imaging team will recognise that whilst the priority is patient diagnosis, the IT systems are a vital support during investigative procedures and their performance must be completely transparent throughout the process.



SITE 666 A

Evolution and new medical technology

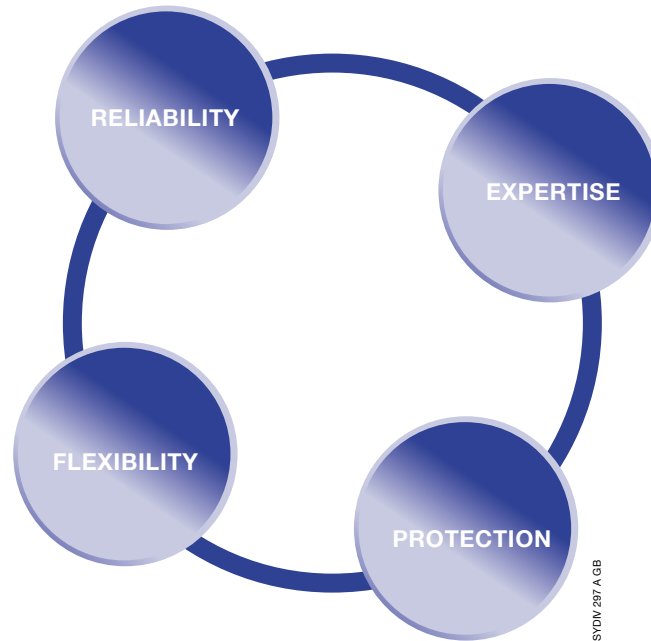
Imaging equipment is becoming increasingly sophisticated as it evolves in line with medical and technological advances; whilst this means that diseases can be diagnosed and treated more effectively, the operating challenges – in particular, space allocated to medical equipment, their support systems and the finances required to fully resource them – are as relevant as ever.



SITE 639 A

Our responses

The overall performance of imaging systems – and the associated levels of patient care delivered – are directly impacted by the availability and quality of the power supply to the equipment. Whether magnetic resonance, X-Ray, computed tomography, ultra sound or nuclear imaging, every system's optimum performance is dependent upon a robust and reliable power supply.



+ Reliability and technical support

- To mitigate risk throughout the facility via the provision of original manufacturer solutions engineered for specific operating constraints.
- To ensure that the uptime of the UPS is guaranteed.

+ Market leading expertise delivering specific solutions

- To deliver application-specific features via our custom engineering teams.
- To deliver products and solutions that fully comply with standards and regulations governing medical facilities.

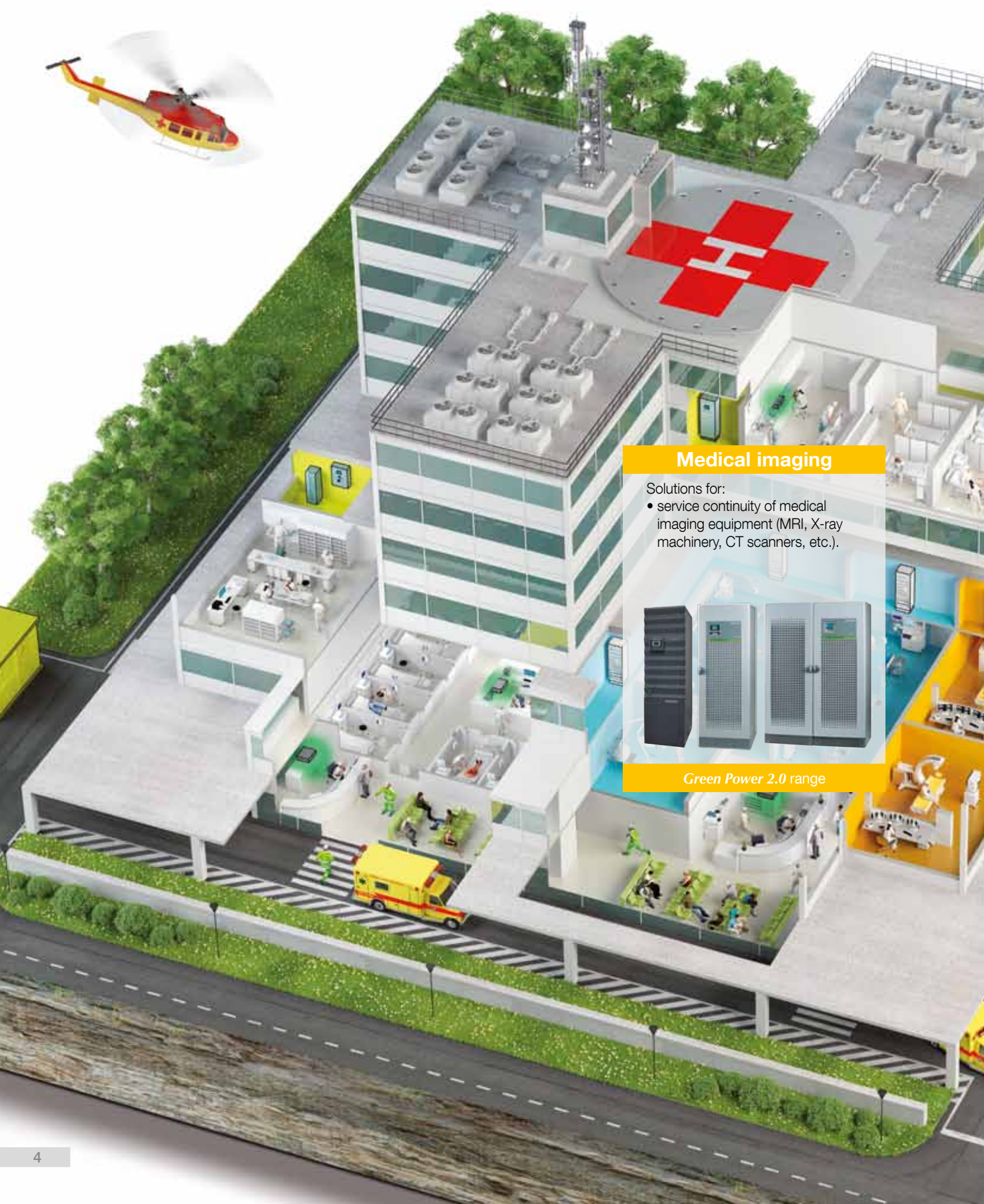
+ Protecting IT infrastructure for medical imaging

- To ensure the level of availability is maintained for both equipment and data.
- To implement solutions that are compatible with the latest developments in both medical and IT equipment.

+ Flexible solutions for your applications

- To upgrade facilities safely and without negatively impacting the existing installation.
- To match technical flexibility with economic parameters and budget requirements.

Overview of the **medical locations supply**



Medical imaging

Solutions for:

- service continuity of medical imaging equipment (MRI, X-ray machinery, CT scanners, etc.).



Green Power 2.0 range

Imaging applications supply

Solutions for:

- securing the power supply in HV/LV transformer stations,
- a secure and reliable power supply for all buildings,
- a power supply adapted to the level of criticality of medical premises.



FLEXYS

ATYS

Medical IT infrastructure

Solutions for:

- the protection and availability of IT systems,
- the availability and security of patient data and hospital communication systems.



MODULYS GP

NETYS RT

Monitoring of modalities

Solutions for:

- managing the energy performance of buildings,
- monitoring critical power circuits,
- protecting power circuits for security systems (fire, emergency lighting, access control, video surveillance, etc.).



DIRIS Digiware

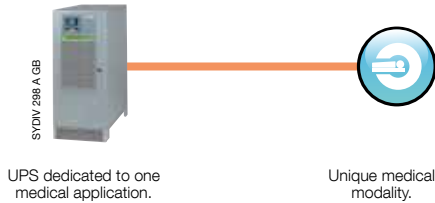
HYPERVIEW/N'VIEW

Our solutions



Decentralised or mutualised solutions

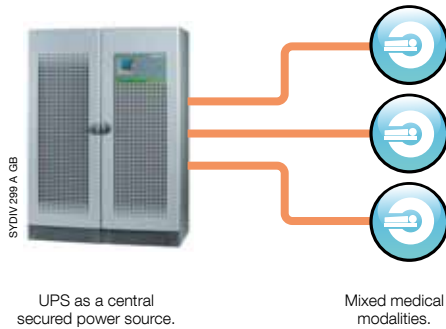
- Decentralised solution: single supply architecture



Benefits

- Dedicated solution per modality.
- Limits the overall impact of medical imaging equipment on the electrical infrastructure.
- Limited impact during maintenance.
- Adapted for “mono-modality” certification.
- Medical imaging OEM approved.

- Mutualised solution: centralised architecture



Benefits

- UPS optimised footprint.
- Limitation of building works and HVAC impact.
- Optimised investment.
- Redundancy capabilities.



Adapted or customized solutions

- Patient care: fitting exposure both in terms of intensity end length (flexible dose exposure generators).
- Effective technology: right-fit of the UPS to the medical application (table and screens control, cardiopulmonary resuscitation system, data integrity, alternative supply in case of electrical network black-outchillers integration).
- Effective cost: right cost for the right solution.

Dedicated medical imaging chillers	
Generator management and dose exposure Full \blacktriangleleft \blacktriangleright Low	<p>NETYS PR</p> <p>MASTERYS GP</p> <p>DELPHYS GP</p>
Cardio-pulmonary resuscitation	
Video geometry	
Alternative supplies	
PC/server for process and data integrity	



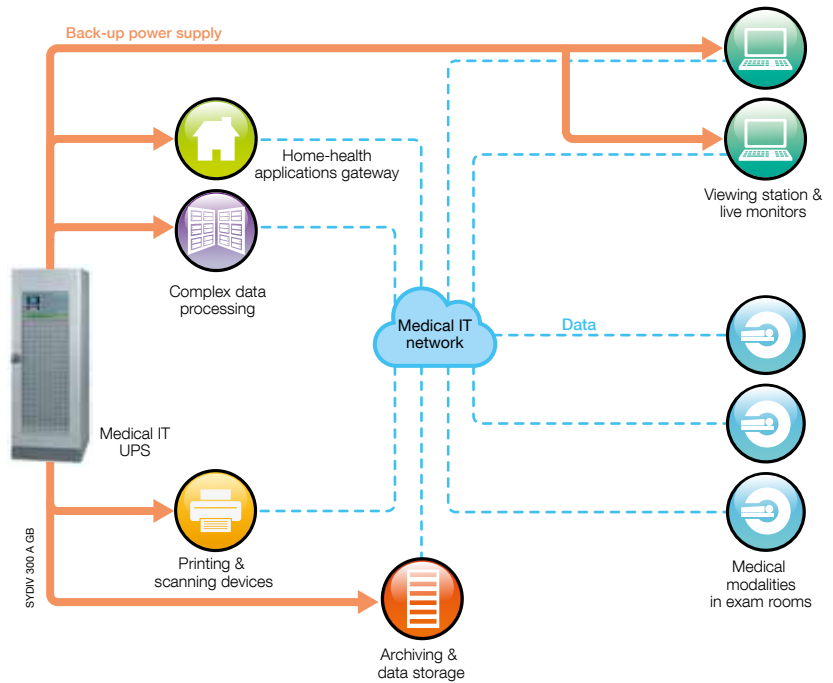
Solutions for medical IT infrastructure

Benefits

- Optimum service continuity.
- A redundant solution at the best cost.
- A flexible solution to meet power upgrade requirements.
- Optimises the investment and running costs.
- Easy installation and maintenance.



MASTERYS GP



Technical and economical UPS scalable solutions

Technical

- Redundancy.
- Scalability and evolutivity.
- Flexible solution.
- Easy integration for medical imaging OEM.
- Space and weight savings.
- Quick repair time guaranteed thanks to plug-in modules.
- Safe maintenance: full load protection and business continuity (on-line maintenance).

Economical

- CAPEX/OPEX optimisation.
- Cost efficiency and cost control.



Discover Powerlease, financing for your UPS.



MODULYS RM GP from 25 to 100 kW.
Design for quicker production and easy installation.
Made for IT bay or medical cabinet integration.

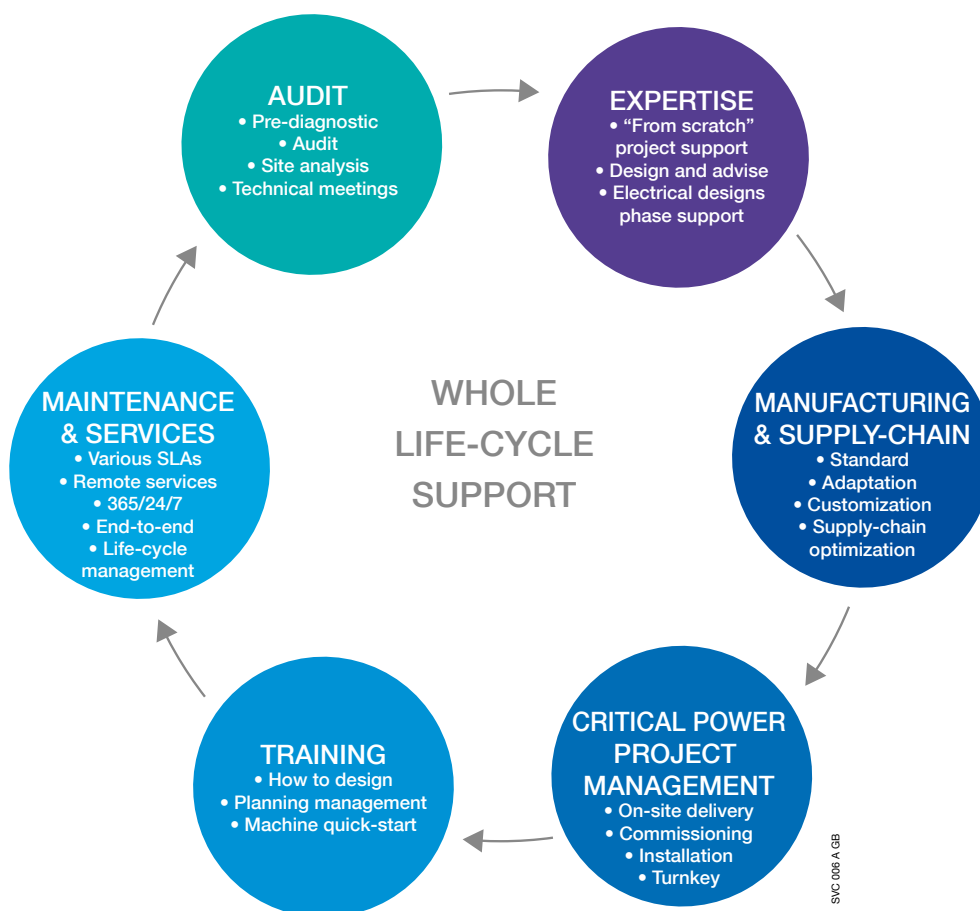


MODULYS GP from 25 to 600 kW.
To be installed in a technical room in a electrical technical room, or to be installed in a medical machines environment.



Services and personalised support for a successful project

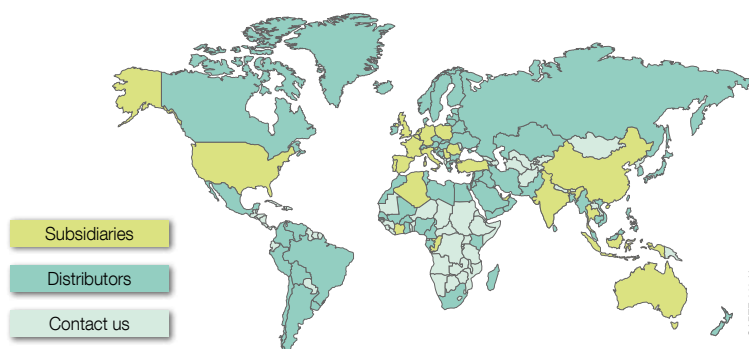
→ Our network of experts will support you at every step of your project to make sure you reach your energy targets



→ Over 370 Socomec specialists, supported by 175 engineers and technicians from our distributor network are on hand to assist you in your specific requirements

We maintain a worldwide presence via:

- 10 branch offices in France,
- 12 subsidiaries in Europe,
- 8 subsidiaries in Asia,
- representative offices in more than 70 countries.





Additional solutions for your medical devices

Expertise and products tailored in terms of availability and the quality of electrical power to ensure the performance of your medical facility.





Solutions for the electrical infrastructure

SOLUTIONS	FUNCTIONS	BENEFITS
<p>Low voltage switchboard system FLEXYS</p> 	<ul style="list-style-type: none"> • Fixed inputs/ outputs up to 4,000 A. • Fixed or plug-in functional units up to 1,250 A. 	<ul style="list-style-type: none"> • Guaranteed quality and performance. • Upgradeable (an "open" switch panel compatible with other manufacturer systems). • Safety (form 2, 3, 4). • Availability (service index IS 323). • Robust. • Compact. • Reliable: complies with standard IEC 61439-1.
<p>Automatic and remote-control transfer switches from 40 to 6,300 A ATYS</p> 	<ul style="list-style-type: none"> • 3 operating modes: automatic, manual, padlocked. • Mechanical interlocking of positions. • Integrated auto-configuration. • Product operating status continually indicated. 	<ul style="list-style-type: none"> • Ensured availability of the power supply • Reliable: complies with standard IEC 60947-3 and IEC 60947-6-1. • High levels of performance (up to AC 33B). • Simple configuration. • Safe operation. • Safe and easy emergency operation. • Operator safety. • Optimises maintenance procedures.



Solutions for building monitoring

SOLUTIONS	FUNCTIONS	BENEFITS
<p>Multi-circuit measurement and monitoring system DIRIS Digiware</p> 	<ul style="list-style-type: none"> • Multi-circuit measurement of electrical values. • Monitors energy quality. • Monitors thresholds and generates alarms. • Plug&Play system (quick and reliable RJ connection). • Class 0.5 for the global measurement chain. • Auto-configuration of parameters. • A modular and multi-circuit system. 	<ul style="list-style-type: none"> • Implementation in a quarter of the time compared to exiting technologies. • Easy to configure. • High measuring accuracy. • Flexible upgrading and integration (on new and retrofit installations). • Reliable: complies with IEC 61557-12 (PMD).
<p>Energy management softwares HYPerview/N'VIEW</p> 	<ul style="list-style-type: none"> • Centralises, monitors and analyses energy data per utility, zone, usage and per period. • Real-time monitoring of all electrical parameters measured by the equipment. • Alarms management and logging. • Personalised dashboard visualisation. 	<ul style="list-style-type: none"> • Intuitive and user-friendly interface. • Enables the identification of energy saving opportunities. • Safety data management from a scalable cloud platform. • Forms part of the ISO 50001 energy efficiency approach.

Project reference



Rennes Hospital, France

Imagery department

- Medical modalities
 - GEMS Interventional X-Ray (vascular) 160 kVA.
 - GEMS Computed Tomography 150 kVA.
 - PHILIPS Interventional X-Ray 160 kVA.
 - SIEMENS X-Ray (hybrid) 160 kVA.
 - SIEMENS X-Ray (vascular) 100 kVA.
- Power supply
 - UPS DELPHYS MX 300 kVA set-up for imaging applications.
 - Flywheel to manage special load consumption profiles.
 - 300 kW/7 min battery cabinet for black-out.



APPLI 688 A

Emergency centre

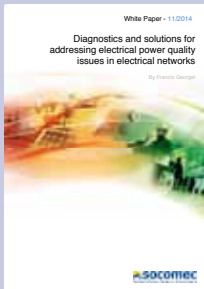
- Medical modalities
 - Carestream Mobile X-Ray 60 kVA.
 - GEMS Computed Tomography 160 kVA.
 - GEMS Magnetic resonance Imaging 150 kVA.
 - GEMS X-Ray 50 kVA.
 - PHILIPS Magnetic Resonance Imaging 160 kVA.
 - PHILIPS Interventional X-ray 1 100 kVA.
 - PHILIPS Interventional X-Ray 2 100 kVA.
 - TOSHIBA Computed Tomography 100 kVA.
- Power Supply
 - UPS DELPHYS GP 2.0 2x320 kVA centralised architecture.
 - 200 kW/10 min battery cabinet for black-out.



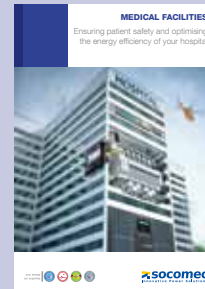
APPLI 673 A

Socomec as a key partner in the medical field

→ Technical notes & white papers



→ Overview of our medical dedicated solutions



→ Our last award as an innovative company



2015
European UPS Technology leadership
Frost & Sullivan Award

"The company's constant product development efforts by leveraging a strong technical know-how have significantly elevated its position in a highly competitive market".

Why choose Socomec ?

→ An industrial group

- Created in 1922.
- More than 3100 employees on five continents.
- Our vocation: the availability, control and safety of low voltage electrical networks with increased focus on our customers' power performance.

→ A spirit of innovation

- Almost 10 % of turnover is invested in R&D.
- Our key objective: to always be at the cutting-edge of technological developments.
- Our latest innovation: an energy storage solution.

→ The culture of independence

- Family shareholding.
- Control of the decision-making process.
- Respect of human values.

→ The focus on service

- Consultancy, technical assistance and call-outs, training.
- Teams located across the globe.
- Recognised expertise and customer focus.

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