The ultimate in power availability, operational efficiency and patient safety in hospitals

Isolated Power Solutions for Operating Rooms
Discover
Isolated Power Solution
Schneider Electric™ is the number one provider of secure power distribution systems and components worldwide. We understand electrical installations in critical environments where protection of people and availability of power is vital. This is why you can trust our Isolated Power Solution for Operating Rooms.

Engineered for patient safety, power availability and efficiency of medical personnel, the Isolated Power Solution provides essential, timely and secure information about electrical system status and diagnostics to key staff, either on-site or remotely.

Our solution is built on high-availability architecture comprised of quality components designed, manufactured and tested by Schneider Electric and complies with the most stringent electrical safety standards, including IEC 60364-7-710.

Backed by Schneider Electric services and a global network of certified EcoXpert™ partners, the Isolated Power Solution will deliver maximum performance throughout the lifecycle of your installation.

A solution you can trust from design to installation to operation and maintenance.
Improve operating room performance

A reliable, efficient solution, from a single manufacturer providing easy access to information concerning the electrical and environmental state of operating rooms:

• Inform maintenance and medical personnel in real-time in the event of an electrical fault or insulation failure

• Monitor the operating room environment and record all environmental and electrical events for traceability

Isolated Power Switchboard
- Physical zone separation design for safe and efficient installation and maintenance
- Pivoting front panels
- Distribution blocks with spring terminals
- Protection from electromagnetic disturbances according to IEC 60364-4-44, IEC 61000-6-2 and IEC 61000-6-3

Uninterruptible Power Supply
- Provides clean power to Isolated Power switchboards even when the main power supply experiences interruptions, voltage dips, overvoltage or slight current fluctuations
- Ensures power availability for a specific time defined by the local standards (15 min - 60 min)

Operating Room Display
- Real-time insulation and electrical fault monitoring
- Visible and audible alarm
- Environmental parameters and medical gases
- Fault handling information and system insulation testing
- Battery state UPS

Maintenance Station
- Receives alerts about electrical & environmental problems detected in any operating room
- Analyzes electrical and environmental information from operating rooms to diagnose and respond to problems
- Notifies medical staff of planned and completed maintenance activities

Chief Nurse Station
- Monitors electrical and environmental states of all operating rooms
- Generates event reports for traceability and regulatory compliance
- Sets alarm thresholds for temperature and humidity of the operating rooms

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Technical characteristics
Take it further with EcoStruxure
Anatomy of the Prisma P
Isolated Power switchboard

1. Built for safety, efficiency and longevity

Prisma P Isolated Power switchboards are made with high-quality electrical components, designed to protect operators from direct contact and engineered to eliminate electromagnetic disturbances in accordance with IEC 60364-4-44, IEC 61000-6-2 and IEC 61000-6-3:

- Modular functional units, IEC 61439-1&2 compliant, with steel metal sheets with cataphoresis treatment
- Functional units and components are physically organized by functions performed: Continuous isolation monitoring devices, IT circuit breaker devices, TNs circuit breaker devices, isolation transformer, earthing equipotential bonding busbar
- Exposed conductive parts are linked to reduce the common impedance between devices
- Low emission - high immunity devices are used

2. EMC
Certified by 3rd party laboratory to conform with the IEC 60364-4-44 standard, thanks to the low level of equipment emissivity, sensitivity and the cabling rules applied
Explore Isolated Power Solution
Explore Isolated Power Solution

Our Isolated Power Solution is designed to provide the right information to the right people when they need it. Built on a flexible, scalable architecture, our solution offers three levels of monitoring from insulation and electrical fault detection in the operating rooms to a complete monitoring solution, providing nurses, medical staff and maintenance personnel the operational intelligence they need to be safe, efficient and productive.

Classic Solution
Simple solution for insulation fault and isolation transformer monitoring and alarming (visible indicators and audible alarm) to medical staff in an operating room. This solution is pre-engineered to easily connect to the local area ethernet network to share its data with any Modbus Master device or supervisory software (Building Management or Power Management system) connected to the network.

Advanced Solution
Comprehensive solution providing electrical monitoring and alarming (visible indicators and audible alarm) with insulation fault location to medical staff working in an operating room and remotely to supervisors and maintenance personnel. Backed by EcoStruxure Power Management software, the solution captures historical electrical event information from all operating rooms for diagnostics, maintenance, traceability and regulatory compliance.

Full Solution
Scalable electrical and environmental monitoring solution that extends beyond operating rooms. Leveraging EcoStruxure Building Operation and EcoStruxure Power Management software, this fully integrated solution provides information about how the critical infrastructure of the hospital is performing at all times with visibility across the entire electrical infrastructure and complete control of environmental conditions throughout the hospital.
Classic Solution

Insulation Monitoring and Communications

Vigilohm IM20-H Insulation Monitoring Device
- Monitors, logs events and alarms when an insulation fault, IT transformer overload or overheating event occurs

Link150
- Enables Isolated Power Supply Panel to connect to an Ethernet network to provide insulation fault, transformer overload, transformer overheating and UPS status information to supervisory monitoring systems such as a Building Management or Power Management system
Insulation Monitoring and Communications

**Vigilohm IM20-H Insulation Monitoring Device**
Monitors, logs events and alarms when an insulation fault, IT transformer overload or overheating event occurs.

**Vigilohm IFL12H Insulation Fault Locator**
Works in conjunction with Insulation Monitoring Device (IMD) to determine the insulation integrity on each IT circuit.

**Acti9 Smartlink**
Monitors circuit breaker status and makes it available to devices and software systems upstream (EcoStruxure Power Monitoring Expert software or BMS software).

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Advanced Solution
Full Solution

Insulation Monitoring and Communications

Vigilohm IM20-H Insulation Monitoring Device
Monitors, logs events and alarms when an insulation fault, IT transformer overload or overheating event occurs

Vigilohm IFL12H Insulation Fault Locator
Works in conjunction with Insulation Monitoring Device (IMD) to determine the insulation integrity on each IT circuit

Acti9 Smartlink
Monitors circuit breaker status and makes it available to devices and software systems upstream (EcoStruxure Power Monitoring Expert software or BMS software)

Automation Server
Collects information from monitoring devices (via communications) and environmental and medical gas sensors (via I/O) and makes it available to software systems (EcoStruxure Building Operation & EcoStruxure Power Monitoring Expert) upstream

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Productive and safe conditions in the operating room

There is no greater need for power reliability and environmental control than in the operating room. This is where patient and staff safety is top priority and every second counts. The Isolated Power Solution enables medical personnel working in the operating room to:

• Monitor and control operating room environmental conditions
• Conduct insulation monitoring system test at start-up
• Ensure supply power and electrical outlets in operating room are safe to use
• Receive highly visible and audible alarms if there is an electrical or environmental problem in the operating room
• Take corrective action when an electrical or environmental problem arises
• Be notified of any work performed by maintenance personnel
Hospitals cannot afford unplanned downtime due to electrical or equipment failure. The Isolated Power Solution provides maintenance personnel the real-time and historical information they need to maintain the electrical and mechanical systems that serve all parts of the hospital, especially the operating rooms and intensive care units. It is designed to:

- Notify immediately via email or text message if an electrical fault or environmental problem occurs
- Display real-time status of all Isolated Power Solution switchboards, Uninterruptible Power Supply units and IT medical outlets supplying power to the operating rooms
- Capture historical electrical information for traceability, diagnostics, maintenance planning and servicing
- Notify medical personnel of maintenance activities and status of electrical outlets in the operating rooms

Efficient maintenance for safe, reliable operations
Effective oversight and management of critical areas

Moving patients in and out of operating rooms and intensive care units is a crucial process requiring precision and the utmost attention to detail. In this dynamic environment, medical supervisors need to know what is going on in the OR's and ICU’s at all times to be effective. The Isolated Power Solution provides medical supervisors the visibility and control they need to:

• Manage environmental conditions across all OR’s and ICU’s
• Display real-time status of all Isolated Power Solution switchboards, Uninterruptible Power Supply units and IT medical outlets supplying power to the operating rooms
• Notify immediately via email or text message if electrical fault or environmental problem occurs
• Take corrective actions when an electrical or environmental problem arises
• Capture historical information for traceability and event reporting
• Be notified of any work performed by maintenance personnel
Facility management is the backbone for reliable and efficient hospital operations. They are responsible for the electrical infrastructure and building systems that keep patients and staff safe and comfortable 24/7. They also play a large role in energy management and sustainability as hospitals strive to reduce their energy spend and decrease their carbon footprint. As part of the Isolated Power Solution, facility managers use EcoStruxure Building Operation and EcoStruxure Power Management software to:

- Ensure power is safe and always available to serve the critical functions of the hospital and the electricity is clean and stable for power sensitive equipment such as imaging and blood dialysis machines
- Control the environment (lighting, temperature, humidity, pressure, ventilation and air quality) in all parts of the hospital, including public areas, staff areas, wards, labs, OR’s and ICU’s
- Use less energy and make informed decisions to lower operating expenses

Comprehensive supervision across your entire hospital
Technical characteristics
### Solution Features

<table>
<thead>
<tr>
<th>Conformity with standards</th>
<th>IEC 60364-7-710</th>
<th>IEC 61439-1 and -2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solution for operating rooms</td>
<td>IEC 60364-4-44</td>
<td>IEC 61000-6-2 and -3</td>
</tr>
<tr>
<td>Switchboard</td>
<td>IEC 60947-6-1:2005, AMD:2013</td>
<td></td>
</tr>
<tr>
<td>Electromagnetic compatibility</td>
<td>IEC 61558-2-15</td>
<td></td>
</tr>
<tr>
<td>Double incomers with change over</td>
<td>IEC 60898-1</td>
<td></td>
</tr>
<tr>
<td>Isolation transformer</td>
<td>IEC 61009-1</td>
<td></td>
</tr>
<tr>
<td>Miniature circuit breakers</td>
<td>IEC 61557-8</td>
<td></td>
</tr>
<tr>
<td>Residual current devices</td>
<td>IEC 60947-6-1:2005, AMD:2013</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monitoring</th>
<th>Insulation fault</th>
<th>Transformer alarms</th>
<th>Insulation fault location</th>
<th>Breaker status</th>
<th>UPS status</th>
<th>Medical gas alarms</th>
<th>Monitor conditions across all operating rooms</th>
<th>Environmental (temperature, humidity, pressure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Access via Operating Room Display</td>
<td>Insulation test</td>
<td>Send notifications for alarm conditions</td>
<td>Lighting control</td>
<td>Change environmental conditions across all operating rooms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitoring</td>
<td>Insulation test</td>
<td>Send notifications for alarm conditions</td>
<td>Lighting control</td>
<td>Change environmental conditions across all operating rooms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Access via Computer Workstation</td>
<td>Insulation test</td>
<td>Send notifications for alarm conditions</td>
<td>Lighting control</td>
<td>Change environmental conditions across all operating rooms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Classic**: 
  - Insulation fault
  - Transformer alarms
  - Insulation fault location
  - Breaker status
  - UPS status
  - Medical gas alarms
  - Monitor conditions across all operating rooms
  - Environmental (temperature, humidity, pressure)

- **Advanced**: 
  - Insulation test
  - Send notifications for alarm conditions
  - Lighting control
  - Change environmental conditions across all operating rooms

- **Full**: 
  - Insulation test
  - Send notifications for alarm conditions
  - Lighting control
  - Change environmental conditions across all operating rooms

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Prisma P Isolated Power Enclosures

Electrical characteristics
- Rated insulation level of main busbars: 1000 V
- In (A) max: 4000 A
- Rated peak withstand current (Ipk): 220 kA
- Rated short-time withstand current (Icw): 100 kA rms / 1 second
- Frequency: 50/60 Hz
- Voltage Use: 690 V under conditions

Mechanical characteristics
- Steel sheet metal, cataphoresis treatment + hot-polymerized polyester epoxy powder, white colour RAL 9001

<table>
<thead>
<tr>
<th>Degree of protection</th>
<th>IP30: with IP30 cover panels including a door or a cover frame</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IP31: with IP30 cover panels including a door + gasket</td>
</tr>
<tr>
<td></td>
<td>IP55: with IP55 cover panels</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Degree of protection against mechanical shocks</th>
<th>IK07: with cover frame</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IK08: with IP30 door</td>
</tr>
<tr>
<td></td>
<td>IK10: with IP55 door</td>
</tr>
</tbody>
</table>

Floor-standing switchboard with integrated IT transformer conforming to IEC 61439-1 and -2

Full and Advanced Single IT TNS Dimensions
- Height: 2000 mm
- Width: 650 mm
- Depth: 500 mm

Classic Single IT Dimensions
- Height: 2000 mm
- Width: 450 mm
- Depth: 500 mm
### Automation Servers

#### AS-B Automation Server
- Standalone server with embedded software supporting control logic, trend logging, alarm supervision and web accessible graphical user interfaces
- Supports BACnet, LonWorks and Modbus protocols
- 10/100 Mbps Ethernet LAN interface with support for IPv6, DHCP/DNS, HTTP/HTTPS, NTP, SMTP, SNMP
- Two RS-485 ports and supports
- Built-in FTT-10 port to connect to TP/FT-10 LonWorks networks
- Built-in I/O bus port for controlling I/O modules (up to 464 I/O points)
- BTL-listed as a BACnet Building Controller (B-BC) and BACnet Operator Workstation (B-OWS)
- Serves as a BACnet Broadcast Management Device (BBMD)
- 4 GB onboard memory (2 GB application/historical data and 2 GB dedicated for backup storage)
- Support for SSL Certificates: Secure Socket Layer (SSL 1.0, 2.0, 3.0, and TLS 1.0)

#### UI-8/DO-FC-4 Module
- I/O module for collecting temperature and humidity readings
- 8 Universal Inputs (analog) and 4 Relay Outputs (digital)

#### DI-16 Module
- Digital Input module for capturing status of medical gases
- 16 Digital Input channels
- Dry contract switch closure or open collector/open drain, 24 VDC, 2.4 mA

#### PS-24V Power Supply Module
- Accomodates 24 VAC or 24 VDC inputs
## Acti9 SmartLink Communication Modules

### Acti9 Smartlink SI B Ethernet
- Communication module for breaker status and trip alarming
- 7 digital channels with 2 inputs and 1 output per channel
- 1 analog channel with 2 inputs (4-20 mA or 0-10 V DC)
- Electronic filtering time for digital and analog inputs: 2 ms from state 0 to state 1
- Current sink for digital input, 24 V DC +/- 20 % at 2.5 mA
- Maximum permanent current for digital input: 5 mA
- Logic current source for digital output: 24 V - DC - 100 mA
- Maximum voltage drop for digital output <1 V at state 1
- Serial RS485 Modbus RTU master communication port
- Ethernet Modbus TCP/IP server communication port
- Wireless communication support for PowerTag energy sensors

### Acti9 Smartlink Modbus RS485
- Communication module for breaker status and trip alarming
- 11 digital channels with 2 inputs and 1 output per channel
- Electronic filtering time for digital inputs: 2 ms from state 0 to state 1
- Current sink for digital input, 24 V DC +/- 20 % at 2.5 mA
- Maximum permanent current for digital input: 5 mA
- Logic current source for digital output: 24 V - DC - 100 mA
- Maximum voltage drop for digital output <1 V at state 1
- Serial RS485 Modbus RTU master communication port
### Vigilohm IM20-H Insulation Monitoring Device
- Measures insulation resistance from 0.1 KΩ to 10 MΩ
- Displays insulation resistance of IT network
- 1 settable alarm 50 KΩ - 500 KΩ
- Manual and automatic (every 5 hours) Self test
- Monitors the IT transformer overload and overheat
- Supports fault location monitoring when paired with IFL device
- Displays electrical and IT transformer alarms
- Historical resistance log
- Timestamped event log
- Modbus RS485 communication port

### Vigilohm IFL12H Insulation Fault Locator
- Measures and displays insulation resistance to ground for up to 12 IT feeders
- Settable alarm threshold 50KΩ - 200KΩ per feeder
- 5 sec response time
- Timestamped event log
- Modbus RS485 communication port
## Smart-UPS RT On-Line

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power rating</td>
<td>6 kVA/kW / 8 kVA/kW / 10 kVA/kW</td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>220 / 230 (default) / 240V</td>
</tr>
<tr>
<td>Output frequency</td>
<td>50/60 Hz ± 4 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)</td>
</tr>
<tr>
<td>Topology</td>
<td>Double-conversion online</td>
</tr>
<tr>
<td>Typical efficiency at full load (Online)</td>
<td>94%</td>
</tr>
<tr>
<td>Typical efficiency at full load (Green mode)</td>
<td>98%</td>
</tr>
<tr>
<td>Output connections (switched groups)</td>
<td>Terminal block, (2) IEC C13 / (1) IEC C19</td>
</tr>
<tr>
<td>Nominal input voltage</td>
<td>220/230/240 VAC (user selectable)</td>
</tr>
<tr>
<td>Input voltage range full load</td>
<td>160 - 285 VAC</td>
</tr>
<tr>
<td>Input frequency</td>
<td>40 – 70 Hz</td>
</tr>
<tr>
<td>Input connection</td>
<td>Hardwire three-wire (1 Ph+N+G)</td>
</tr>
<tr>
<td>Battery type</td>
<td>Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof</td>
</tr>
<tr>
<td>Typical backup time at ½ load (min)</td>
<td>9.0 min. for 6 kVA model / 11.9 min. for 8 kVA model / 9.1 min. for 10 kVA model</td>
</tr>
<tr>
<td>Typical backup time at full load (min)</td>
<td>2.1 min. for 6 kVA model / 3.0 min. for 8 kVA model / 2.0 min. for 10 kVA model</td>
</tr>
<tr>
<td>Interface ports</td>
<td>Serial (RJ45), USB (Type B) and Smart-Slot (pre-installed with AP9631 includes ethernet port)</td>
</tr>
<tr>
<td>Control panel</td>
<td>Multi-color LCD with 5 front panel buttons (320x240 pixel display)</td>
</tr>
<tr>
<td>Emergency power off (EPO)</td>
<td>Yes</td>
</tr>
<tr>
<td>Conformity to Standards</td>
<td>CE, CB</td>
</tr>
</tbody>
</table>

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### Easy UPS SRV

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Power rating</strong></td>
<td>6 kVA/kW or 10 kVA/kW</td>
</tr>
<tr>
<td><strong>Nominal output voltage</strong></td>
<td>220/230/240 VAC</td>
</tr>
<tr>
<td><strong>Output frequency range (sync mode)</strong></td>
<td>60 Hz or 50 Hz +/-0.1 Hz</td>
</tr>
<tr>
<td><strong>Topology and output waveform</strong></td>
<td>Double-conversion online; sine wave</td>
</tr>
<tr>
<td><strong>Output connections (switched groups)</strong></td>
<td>Terminal block</td>
</tr>
<tr>
<td><strong>Nominal input voltage</strong></td>
<td>220/230/240 VAC</td>
</tr>
<tr>
<td><strong>Input voltage range</strong></td>
<td>110-300 at 60% load</td>
</tr>
<tr>
<td><strong>Input frequency</strong></td>
<td>40 – 70 Hz</td>
</tr>
<tr>
<td><strong>Input connection</strong></td>
<td>Terminal block</td>
</tr>
<tr>
<td><strong>Battery type</strong></td>
<td>12 V / 7 AH x 16 for 6 kVA model, 12 V / 9 Ah x 16 for 10 kVA model</td>
</tr>
<tr>
<td><strong>Half load runtime (min)</strong></td>
<td>10 min. for 6 kVA model / 7 min. for 10 kVA model</td>
</tr>
<tr>
<td><strong>Full load runtime (min)</strong></td>
<td>3.5 min. for 6 kVA model / 2 min. for 10 kVA model</td>
</tr>
<tr>
<td><strong>Interface ports</strong></td>
<td>RS-232, mini slot</td>
</tr>
<tr>
<td><strong>Control panel</strong></td>
<td>Multi-function LCD status and control console</td>
</tr>
<tr>
<td><strong>Emergency power off (EPO)</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Conformity to Standards</strong></td>
<td>CE</td>
</tr>
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</table>
# Easy UPS 3S

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power rating</td>
<td>10 kVA/kW, 15 kVA/kW, 20 kVA/kW, 30 kVA/kW, 40 kVA/kW</td>
</tr>
<tr>
<td>Efficiency: Double conversion mode</td>
<td>Up to 96%</td>
</tr>
<tr>
<td>Efficiency: ECO mode</td>
<td>Up to 99%</td>
</tr>
<tr>
<td>Nominal input voltage</td>
<td>380/400/415 V (Three-phase + Neutral)</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>304V to 477V at full load</td>
</tr>
<tr>
<td>Input frequency</td>
<td>45 – 65 Hz</td>
</tr>
<tr>
<td>Battery type</td>
<td>VRLA</td>
</tr>
<tr>
<td>Overload capacity in normal operation</td>
<td>130% for 10 minutes and 130-150% for one minute</td>
</tr>
<tr>
<td>Output voltage tolerance</td>
<td>+/-1%</td>
</tr>
<tr>
<td>Communication interface</td>
<td>RS232, RS485, USB, dry contact, Modbus TCP/IP, optional network card</td>
</tr>
<tr>
<td>Control panel</td>
<td>Multi-function LCD, status and display console</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20</td>
</tr>
<tr>
<td>Conformity to standards</td>
<td>CE, RCM, EAC, WEEE, IEC/EN62040-1-1, IEC 62040-2, IEC 62040-3, IEC 62040-4</td>
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Easy UPS 3M

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power rating</td>
<td>60 kVA/kW, 80 kVA/kW, 100 kVA/kW, 120 kVA/kW, 160 kVA/kW, 200kVA/kW</td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>3:3 - 380/400/415 V</td>
</tr>
<tr>
<td>Efficiency: Double conversion mode</td>
<td>Up to 95.5%</td>
</tr>
<tr>
<td>Efficiency: ECO mode</td>
<td>Up to 99%</td>
</tr>
<tr>
<td>Nominal input voltage</td>
<td>380/400/415 V (Three-phase + Neutral)</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>342 V to 477 V at full load at 40°C*</td>
</tr>
<tr>
<td>Input frequency</td>
<td>40-70 Hz</td>
</tr>
<tr>
<td>Battery type</td>
<td>VRLA</td>
</tr>
<tr>
<td>Overload capacity in normal operation</td>
<td>125% for 10 minutes, 150% for 1 minute**</td>
</tr>
<tr>
<td>Output voltage tolerance</td>
<td>+/-1%</td>
</tr>
<tr>
<td>Communication interface</td>
<td>RS485, USB, Dry contact, Modbus TCP/IP (SNMP optional)</td>
</tr>
<tr>
<td>Control panel</td>
<td>Five inch touchscreen LCD, status, and display console</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20</td>
</tr>
<tr>
<td>Conformity to standards</td>
<td>CE TUV, IEC/EN 62040-1, IEC 62040-2, IEC 62040-3, IEC 62040-4</td>
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# Galaxy VS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Power rating</td>
<td>10-150 kVA/kW</td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>380 / 400 / 415 V</td>
</tr>
<tr>
<td>Output frequency</td>
<td>50 / 60 Hz +/-0.1% free running</td>
</tr>
<tr>
<td>Topology</td>
<td>On-line double conversion</td>
</tr>
<tr>
<td>Double conversion mode</td>
<td>Up to 97%</td>
</tr>
<tr>
<td>ECO mode</td>
<td>Up to 99%</td>
</tr>
<tr>
<td>ECO conversion mode</td>
<td>Up to 99%</td>
</tr>
<tr>
<td>Nominal input voltage</td>
<td>380 / 400 / 415 V</td>
</tr>
<tr>
<td>Input voltage range (phase to phase)</td>
<td>+/-15%</td>
</tr>
<tr>
<td>Input frequency</td>
<td>40 – 70 Hz</td>
</tr>
<tr>
<td>Battery type</td>
<td>VRLA, Li-ion</td>
</tr>
<tr>
<td>N+1 redundancy option</td>
<td>20-50 kW N+1</td>
</tr>
<tr>
<td>Parallel capability</td>
<td>Simplified 1+1 parallel (for redundancy); Up to 3 UPSs for capacity or 3+1 UPSs for redundancy</td>
</tr>
<tr>
<td>Interface ports</td>
<td>Ethernet (SNMP) and Modbus. 8 dry contacts (4 inputs, 4 outputs)</td>
</tr>
<tr>
<td>Control panel</td>
<td>Color touch screen, 4.3 inches, status LED, mimic on display</td>
</tr>
<tr>
<td>Protection level</td>
<td>IP20</td>
</tr>
<tr>
<td>Conformity to Standards</td>
<td>IEC 62040-3 Class 1</td>
</tr>
</tbody>
</table>

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Integrated Building and Power Management:
Connected devices, edge control software and digital services for enhanced productivity and improved resilience
EcoStruxure simplifies your operations and provides the insights and decision support you need to maximize:

**Safety**
Reduce risk of electrical fires, ensure safe operation of electrical systems and protect staff and patients from electrocution and shock.

**Availability**
Gain resilience with distributed energy resources, enhance electrical asset maintenance and avoid unplanned downtime from electrical failure.

**Efficiency**
Reduce energy usage and costs, improve operational efficiency and achieve greater sustainability.

**Comfort**
Optimise patient comfort and staff productivity throughout the hospital using intelligent automation and controls.
Future-proof your hospital with EcoStruxure supervisory software to get the right information to the right people at the right time. Our edge control software platforms are engineered to work together to provide real-time visibility of electrical and critical building infrastructure and allow you to control the environmental conditions in every part of your hospital.

Try the demos!
Digital Services
Expert analysis and recommendations

Reduce maintenance costs and maximize system uptime with real-time data on infrastructure performance. Get actionable predictive maintenance information that protects your customers, safeguards your reputation and minimizes financial impact.

- Optimize energy efficiency and reduce energy-related costs
- Reduce downtime from network issues or equipment failure
- Improve predictive maintenance and reduce reactive maintenance issues

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Isolated Power Solution
Explore
Isolated Power Solution
Perfect for your business
Technical characteristics
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Field Services
Understanding and managing the complexities of your operations

Site Safety
• Reduce risks during operations
• Maximize site availability and utilization
• Reduce insurance cost

☞ Electrical Installation and Safety Training
☞ Consultancy Services

New Installations
• Certify the reliability and safety of your equipment
• Fully understand your new installation
• Have a single point of contact during on-site work

☞ Installation and Commissioning Services
☞ Service Plans

Infrastructure Maintenance
• Fast replacement of obsolete components with newer, more efficient equipment
• Enhance cybersecurity and safety
• Have access to the right parts at the right time

☞ Modernization services
☞ Spare Parts Management
The Isolated Power Solution is backed by our global network of certified Digital Panel EcoXperts who have proven expertise in delivering efficient, tested, commissioned, ethernet-ready smart panels.

Trained and certified by Schneider Electric, our ecosystem of EcoXpert partners provide best-in-class services and digital solutions that will exceed your expectations.

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EcoStruxure for healthcare

Apps, analytics & services

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Connected devices

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