

CAPABILITY STATEMENT





POWER QUALITY GROUP

'Power Quality Group adopts a fully comprehensive approach to protecting your business...'

Underpinning and securing clients investment in IT Equipment and services, the availability of power for critical applications and systems, protection against damaging power surges and fluctuations is more than a simply off the shelf approach.

For mission critical situations, it is usual for a number of strategies and product solutions to be employed to adequately protect against loss and damage caused by power problems.

We offer a total 'Data Protection' system comprising of a backup generator, UPS, Automatic Transfer Switch, Surge protection, electrical wiring and upgrades, Precision Air Conditioning, Rack Systems, Managed PDUs as well as Monitoring systems. All delivered and commissioned by professionals.

We also are an authorized distributor/ solutions partner with Vertiv, and have the complete range of UPS available to satisfy requirements for the small, medium and large data rooms.



POWER QUALITY GROUP

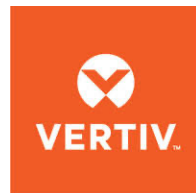
'Power Quality Group adopts a fully comprehensive approach to protecting your business...'

All UPS products have a full complement of warranty options available and our products can be delivered with professional startup and installation services.

We also provide maintenance services such as testing, battery replacements and UPS health checks.

With our Geist product range we can also provide switched and metered PDU solutions which can be fully integrated into the DCIM Software applications, perfect for managing the data centre from any size, whether it be for 2 racks or 2000 racks.

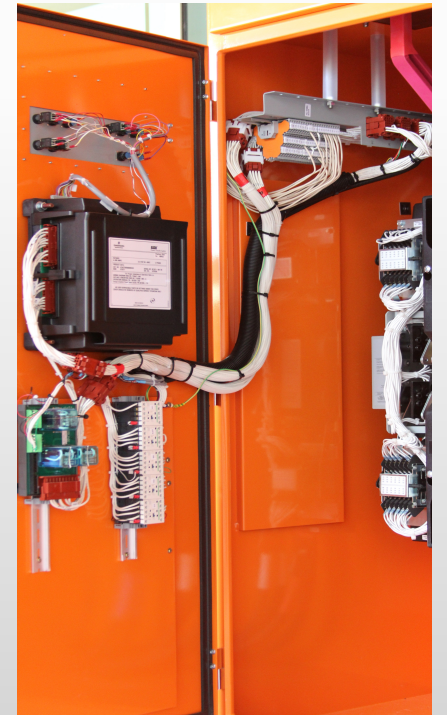
Our partners are quality manufacturers of power protection and smart solutions.



POWER QUALITY GROUP

‘Our breadth of services includes the entire range of Vertiv Power products. From UPS to Data Centre Infrastructure Management Software, we have the expertise to protect critical systems...’

- Liebert Interruptible Power Systems (UPS)
- Liebert Precision Cooling
- Avocent DCIM Solutions
- Transient Voltage and Surge Suppression
- Standby Generators
- Generator Automatic Transfer Switches
- 24, 48, 110VDC Power Systems
- Full managed Power Distribution Units (PDU)
- Remote monitoring systems
- Custom designed racks and enclosure systems
- Environmentally controlled enclosures





GEOGRAPHIC COVERAGE

PQG Head office in Queensland with branches in SA, TAS and NT. PQG delivers solutions, service and install capabilities Australia wide through extensive partner network.

CONDUCT YOUR OWN POWER QUALITY ASSESSMENT

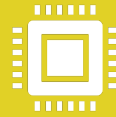
Unsure where to start? Simply ask the following questions now, to start designing a power protection solution.

- >> List the equipment to be protected and determine the maximum power required.
- >> How will the protection be installed?
- >> Will it be centralized or distributed?
- >> How much back up time is required?
- >> How sensitive is the equipment?
- >> Are there servers or VoIP services that required an online UPS?
- >> Is communication to and from the UPS required?
- >> Will it integrate with the local network?
- >> Is a standby generator to be used?
- >> List the equipment to be powered by the generator.
- >> Is automated start/stop/changeover required?
- >> Consider and include surge and spike damage protection.
- >> Is precision air conditioning required for the equipment?
- >> Do you need your data centre or server room designed and constructed?
- >> Is a service and maintenance agreement required?

UNIQUENESS



Leveraging resources nationally



Switchboard / enclosure
manufacturing inhouse



Fulfilment nationally using Master
Electricians – we have a current
board member



Local custom enclosure
manufacturing



POWER QUALITY GROUP

‘Well known around the country as a specialist distributor of Uninterruptible Power Solutions...’

Whilst our breadth of products and services expands across the entire spectrum of sensitive equipment requirements, our expertise and knowledge of the UPS business is core to our operations.

Whether your requirements are for a small single phase plug and play UPS to support a POS terminal or desktop PC or for a True Online UPS capable of providing zero second transfer and suitable for rack mounting, we can assist you.

Our team of technical sales staff will be able to answer any questions you have as well as provide guidance and support for selecting the correct unit for the application.

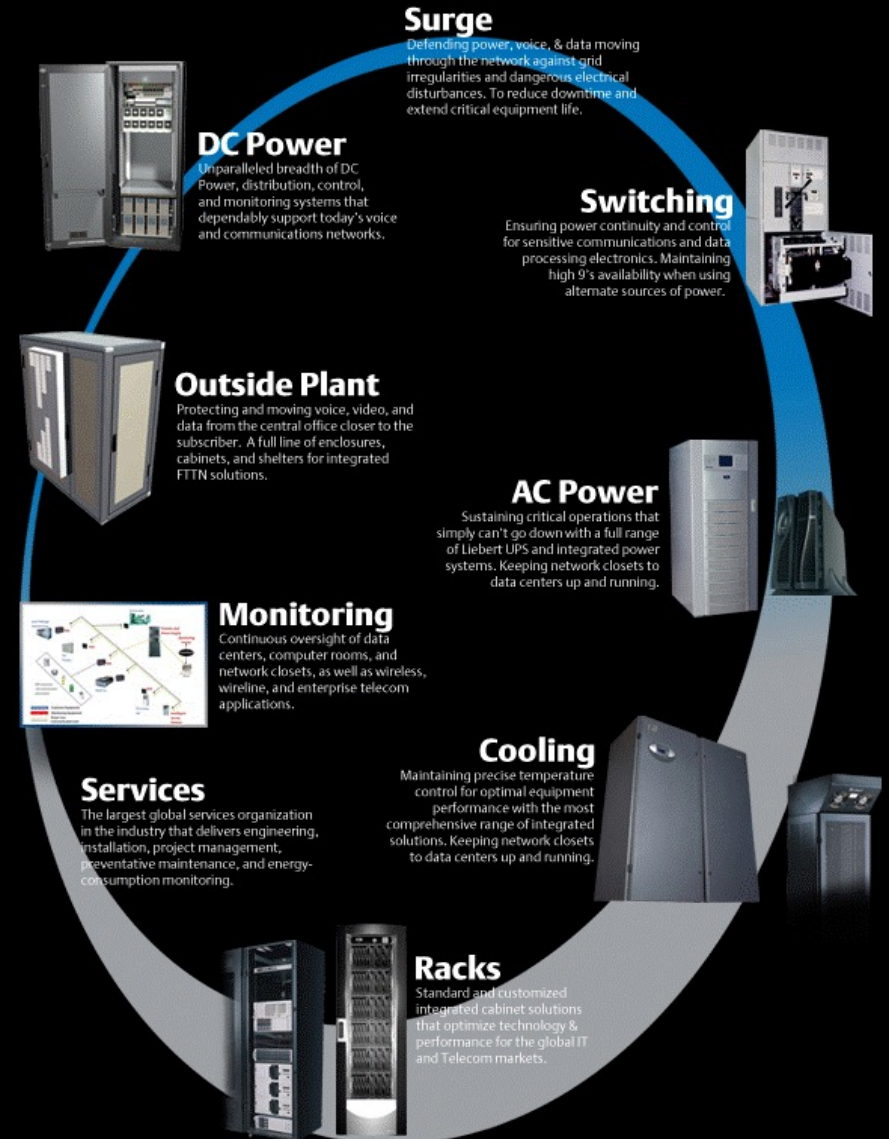




Power Quality Group

'a well protected system
is more than just a UPS...'

POWER QUALITY GROUP



INDUSTRIES AND PROJECTS



Projects examples public / private



Health



Mining



Transport



Education



Communications

CASE STUDY HYPERBARIC MEDICINE CHAMBER

Project overview Once patients and the medical staff are inside the Hyperbaric Chamber, the systems are sealed and fully self contained during treatment (includes toilets, fire systems, food), so guaranteed redundant power to all these systems is paramount.

There are slow ramp up and ramp down timeframes too.

going 12 years now and locations: every Australian Capital City x 1 each, Townsville Queensland, Texas USA x 2, Florida USA x 3, Milwaukee USA x 2 and Dubai UAE x 3



CASE STUDY HYPERBARIC MEDICINE CHAMBER

CUSTOMER CHALLENGE: Hospitals required power backup systems for their hyperbaric medicine chambers. As a medical application the clients requirement focused on meeting long backup times, complete redundancy and static transfer switching as key components.

REGION: SA, TAS, WA, USA x 3

PQG SOLUTION: PQG were engaged to assist with the design and supply of a solution capable of meeting the clients exacting requirements.

- AC - UPS with 4 hours of backup time
- AC - Static Transfer Switch
- DC - 1+1 redundant DC UPS system with 4 hours backup time
- DC Redundancy – with parallel combiner/isolators
- Custom rack for the power systems and DC distribution
- Reliable solution to suit medical critical application



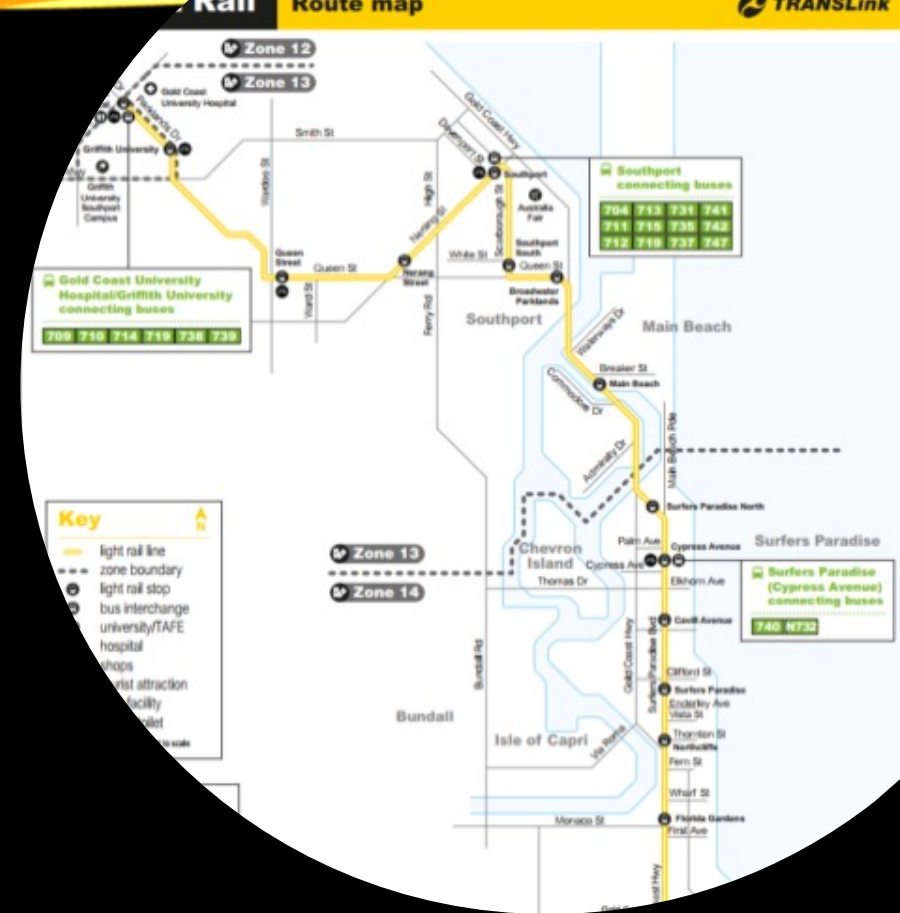
CASE STUDY TRAIN STATION TICKETING SYSTEM

CUSTOMER CHALLENGE:

Long backup was required and fast restoration in the vent of failure or outage

PQG's Extreme UPS :

- UPS systems designed for 2 hours backup
- Standardised model and installation so all sites are virtually identical
- In a variety of station environments from small platform enclosures, to office spaces, to rail side switch rooms.
- Network connected for centralised monitoring.
- Full bypass operation to allow for rapid service restoration and seamless UPS replacement.



CASE STUDY

IVF CLINIC GROUP

CUSTOMER CHALLENGE: Critical biological material necessary for IVF services were at risk of being lost due to power outages. Storage equipment designed to maintain precise environmental conditions for valuable samples were not being monitored against power disturbance and were not backed up by redundant levels of protection.

REGION: NSW

PQG SOLUTION: PGG were engaged to provide assistance with the initial project scope. We worked with the business to design a solution which included 8 hours of backup power. 1+1 redundancy was built into the design with multiple UPS, multiple transfer switches and options for SMS alerts. Included interconnect with facility BMS.



CASE STUDY WATER TREATMENT STATION

CUSTOMER CHALLENGE: UPS Solution had to be dust and moisture resistant.

REGION: QLD Various Sites

PQG SOLUTION:

- In a variety of locations, many of which are not airconditioned.
- High levels of humidity.
- BMS system compatible for alerting.
- Customised UPS humidity protection
- Custom UPS stand to keep units off the floor, away from dirt, debris and water.



CASE STUDY

LONGREACH AIRPORT & SMART CABINET

CUSTOMER CHALLENGE: Longreach Airport required a solution to house their critical equipment outside of the air-conditioned terminal building. Whilst still in a stable environment, capable of dealing with the heat, dust and insect population of Longreach. They needed a solution which included rack space, UPS and A/C and full remote monitoring. The solution needed to be reliable and robust as outages had the potential to delay flights.

PQG SOLUTION: PQG offered the Vertiv Smart Cabinet.

- Secure self contained IUP54x environment inside the cabinet. Located in a storage room underneath the office building.
- Pre-configured & pre-engineered.
- Fast and easy deploy, install and start-up, all completed in just a few days.
- 29RU of IT user space.
- 3kW of cooling with 5kVA UPS/battery.
- Local and remote monitoring of the environment, power & security.



CASE STUDY

UNDERGROUND TUNNEL SWITCHBOARD ROOM

REGION: SYDNEY

PQG SOLUTION: PQG offered a dual redundant power system, customer stainless steel, IP rated enclosures containing UPS's locally designed and built here in Brisbane.

Each enclosure has an industrial grade side mounted air conditioner – designed for long term continuous operation.

Colour matched to other cabinets on the outside, white on the inside to aid internal visibility.

Internal lighting for maintenance safety.



PROFESSIONAL

- Insurances
- Electrical Licences in all states via partner network
- Published case studies - [Vertiv Case Study - Longreach Airport](#)
- Awards – Vertiv Partner of the Year
- Awarded ‘Vertiv Black Diamond Partner’ status in 2021



CONTACT US

'Contact the team at Power Quality Group for smart design, powerful solutions and critical protection...'



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SMART DESIGN

POWERFUL SOLUTIONS

CRITICAL PROTECTION



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