



POWERSIDE®

Power Quality Solutions for Data Centers

Ensure reliability and stay ahead of downtime
with power quality monitoring, analysis and
correction solutions

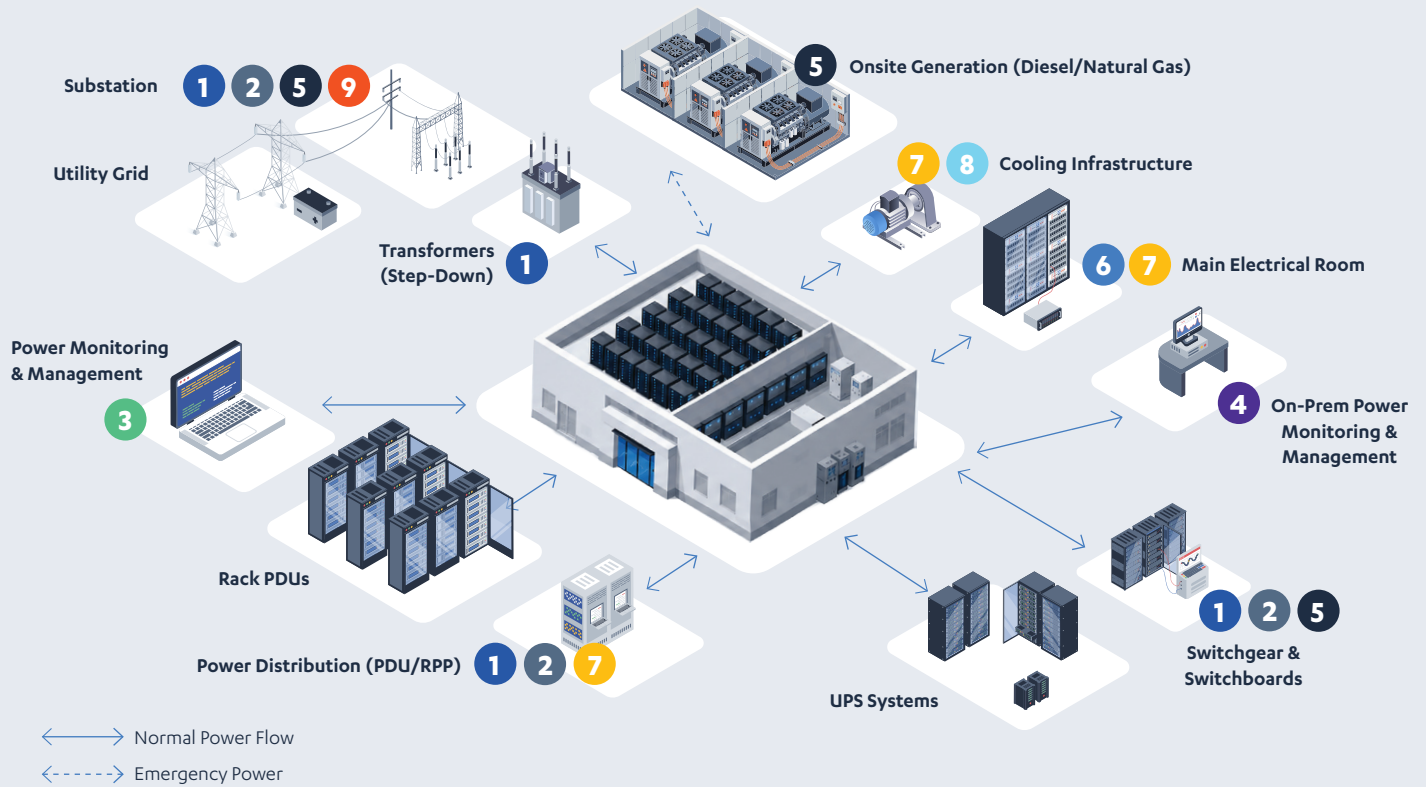
Power Quality Solutions for Always-On Data Centers

Poor power quality can threaten data center uptime long before issues are even visible. Stay ahead of these hidden threats with Powerside's comprehensive suite of solutions, bringing issue detection, analysis and correction together in one collective portfolio.

Whether operating in traditional, modular or co-located facilities — or planning for the next wave of high-voltage direct current (HVDC)–powered racks — Powerside delivers unparalleled, actionable data to help you understand what's happening across your electrical infrastructure.



Power Quality Solutions for Data Centers



1 PQube® 3 Power Analyzer



Ideal for mission-critical systems from switchgear to cooling, PQube 3 delivers 24/7, high-fidelity data on every electrical event impacting your facility.

2 PQ Edge® Power Quality Monitor



Made for cost-effective monitoring in high-tech facilities, PQ Edge offers dependable, straightforward tracking of essential power quality metrics at the machine level.

3 QubeScan Monitoring Software



Designed for 24/7 remote power quality visibility, QubeScan pulls insights from every power quality analyzer in your facility into one intuitive platform.

4 PQView® Data Concentrator & Analysis Software



Built for secure, on-prem monitoring, PQView integrates insights from multiple data sources to provide a holistic, device-agnostic view while supporting compliance.

5 PowerMVar Metal Enclosed MV Filter Bank



Acts as the facility's first line of defense by filtering harmonics, regulating incoming voltage, protecting backup generators and supporting IEEE 519 compliance.

6 PowerVar LV Auto Bank



Automatically adjusts reactive power compensation as server and AI workloads fluctuate, improving power factor and preventing electrical instability.

7 PowerAct LV Active Filter



Continuously monitors the LV bus and removes harmful harmonics generated by UPS systems, server racks and cooling equipment in real time.

8 PowerCap LV Fixed Bank



Installed directly at motor control centers (MCCs) and constant-running mechanical loads to improve power factor and stabilize voltage.

9 STATCOM Technology



Hybrid or fully active configurations improve PF, regulate voltage and mitigate harmonics up to the 13th order. Q, PF and V ref control modes with a modular 3-level inverter. Scalable up to 35 kV via transformer integration.

Types of data centers we support

Enterprise

Colocation

Hyperscale

Modular

Edge

Use cases & applications

Switchgear

Auto transfer switches (ATS)

Power distributing units (PDUs)

Cooling systems

Uninterruptible power supply (UPS)

Transformers

Genset

Our monitoring and correction solutions can be tailored to understand system performance 24/7, taking the burden of poor power quality off of your operations.



ANALYZERS & MONITORS

Find the Ideal Monitoring Solution for Your Facility

PQube® 3 Power Analyzer

The gold standard in power quality monitoring

The PQube 3 Power Analyzer delivers precision power quality monitoring twenty-four hours a day. With utility-grade measurement capabilities, advanced diagnostics and customizable reports, it provides the visibility and insights needed to stay ahead of emerging power quality issues.

Benefits

- Support facility uptime and resilience
- Extend equipment life and prevent costly outages
- Inform and accelerate troubleshooting
- Reduce wasted energy and avoid utility penalties

Applications

Cooling chillers

Fans

Pumps

HVAC systems



PQ Edge® Power Quality Monitor

Cost-effective, machine-level power monitoring

While PQube 3 power analyzers offer ultra-precise measurements and comprehensive analytics, PQ Edge focuses on only the most essential power quality metrics for your operations. With easy installation and straightforward reports, **PQ Edge delivers dependable power quality monitoring in a cost-effective package.**

Benefits

- Keep tabs on essential power quality metrics
- Right-size monitoring capabilities to operational needs
- Easily install directly on equipment
- Access real-time, straightforward reports from anywhere

Applications

Utility main

Main switchboard

Switchgear

Power distribution unit

Automatic transfer switch (ATS)



MONITORING SOFTWARE

Enjoy Flexible Options for Remote or On-Prem Monitoring

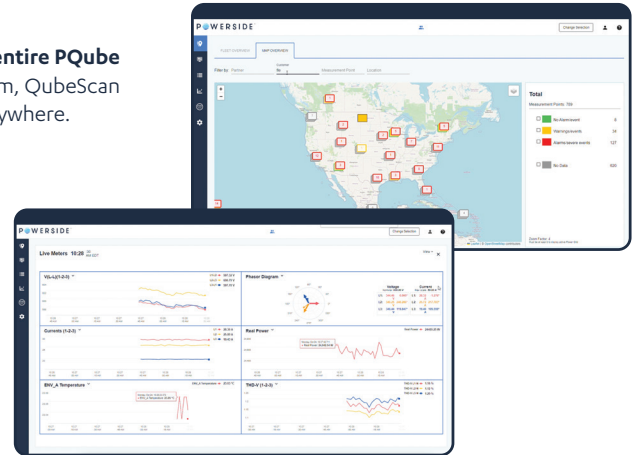
QubeScan Monitoring Software

Put real-time power quality data at your fingertips

QubeScan Monitoring Software delivers remote, cloud-based monitoring for your entire PQube 3 fleet. By pulling data from all your PQube® 3 Power Analyzers into one intuitive platform, QubeScan allows you to access customizable alerts, diagnostics, and long-term trend data from anywhere.

Benefits

- Monitor live power quality metrics for rapid commissioning and diagnostics
- Visualize events and trends through one intuitive platform
- Configure alerts to identify issues before they disrupt operations
- Automate reporting for continuous health and compliance checks
- Easily compile and share data between teams and stakeholders
- Provide valuable redundant monitoring beyond existing SCADA and power management systems



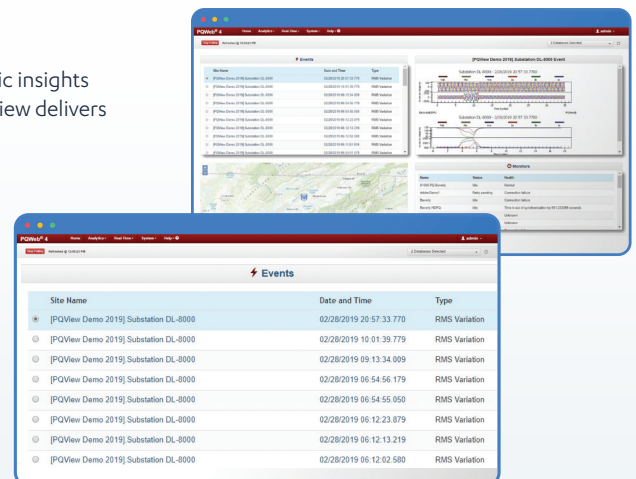
PQView® Data Concentrator & Analysis Software

Your centralized command center for power quality monitoring

PQView® Data Concentrator & Analysis Software provides centralized, device-agnostic insights to simplify power quality monitoring. As an enterprise-grade, on-premise solution, PQView delivers facility-wide insights through one secure and customizable system.

Benefits

- Access robust data and analytics from all your devices
- Analyze data through our intuitive interface or your own custom application
- Visualize events and trends with static or interactive charts
- Maximize security and compliance with an on-prem system
- Receive instant alerts and automatic reports on power quality performance



CORRECTION BANKS, FILTERS & COMPENSATORS

Fine-Tune Power Quality to Boost System Performance

PowerCap Low Voltage Fixed Bank

Reliable reactive power compensation for large, steady mechanical loads

PowerCap Fixed Banks are installed directly on the load side of these large, steady mechanical motors. By delivering localized reactive power compensation where it's needed most, they improve efficiency without impacting other areas of the facility.

Benefits

- Stabilize terminal voltage at large motor loads
- Improve energy efficiency throughout cooling operations
- Reduce stress on electrical infrastructure
- Prevent costly low power factor penalties
- Easily install with compact floor or wall-mounted designs



PowerVar Low Voltage Auto Bank

Dynamic power factor correction for rapidly changing server loads

PowerVar LV Auto Banks continuously monitor the LV distribution bus and automatically adjust capacitance to meet changing reactive power demands. Integrated detuning reactors mitigate harmonics from server power supplies, helping prevent electrical resonance and maintain system reliability.

Benefits

- Extend equipment life through intelligent branch cycling
- Improve long-term performance with self-healing capacitors and maintenance-free terminations
- Neutralize moderate network harmonics
- Prevent dangerous over-voltage conditions
- Minimize time to repair (MTTR) with heat-conscious design and front-access serviceability



PowerAct & PowerXAct Low Voltage Active Filters

Real-time harmonic filtering for VFDs and non-linear loads

PowerAct and PowerXAct LV Active Filters cancel out harmonic distortion in real time. Installed on the LV bus, these filters continuously monitor the system to detect distortion and immediately inject equal and opposing currents to eliminate harmonics before they impact operations.

Benefits

- Eliminates harmonics up to the 51st order
- Prevents nuisance circuit breaker trips
- Improves power quality across connected systems
- Compact, modular design simplifies expansion
- Faster response times improve filtering performance
- Adapts to dynamically filter harmonics as system behavior changes



PowerMVar Metal Enclosed Medium Voltage Filter Banks

Facility-wide power quality protection at the utility entrance

PowerMVar Filter Banks provide unparalleled protection throughout your data center. Installed upstream at the incoming substations, these powerful banks filter harmonics and regulate voltage, freeing up valuable transformer capacity before power is distributed throughout the facility.

Benefits

- Filters harmful harmonics before they enter the facility
- Regulates incoming network voltage
- Frees up transformer capacity (kVA)
- Protects backup generators
- Helps maintain IEEE 519 compliance



Static Synchronous Compensators (STATCOMs)

Dynamic, real-time voltage stabilization and harmonic mitigation

STATCOM technology continuously monitors system conditions and automatically injects or absorbs reactive power to keep up. With scalability up to 35 kV, you get fast, precise compensation for even the most demanding environments.

Benefits

- Dynamically improves power factor and voltage stability
- Mitigates harmonics up to the 13th order
- Operates in Q, PF and V reference control modes
- Available in hybrid or fully active configurations
- Modular architecture allows for flexible deployment



Stay Ahead of Power Quality Challenges with Powerside

Don't let poor power quality disrupt your operations. Learn more about how Powerside helps data centers take control of power quality and support long-term resilience.

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