



P  WERSIDE[®]

Power System Analysis

A Reliable Way to Root Out Power Quality Issues



An attentive, hands-on approach with **comprehensive reports.**

Our experts help at every stage of your power system analysis. Once we know exactly what your power quality issues are, we'll deliver a comprehensive report identifying the root cause and how to address it.

By the way: If you like it, consider getting the PQube embedded in our corrections equipment or installed permanently at your facility.



Powerful technology for when you need it most.

In addition to analyzing your power system's data and interpreting results, our professional experts will recommend the exact power correction equipment needed to operationally maximize your power system.

Medium Voltage

PowerMVar & SynchroMVar correction banks

Provides power factor compensation and harmonic mitigation.

Used for voltages from 2.4 kV - 35 kV.

Transient-free switching capabilities for dynamic loads.



Low Voltage

PowerCap fixed capacitor banks

Helps correct reactive power demand, harmonics and unbalanced loads.

Used for nominal voltages ranging from 208 V - 600 V.



Low Voltage

PowerAct active harmonic filter banks

Improves power quality by mitigating harmonics, stabilizing voltage, balancing loads, and compensating for poor power factor.

Increases equipment lifespan, reduces energy costs and improves power system reliability.



Low Voltage

PowerVar automatic capacitor & filter banks

Compensates power factor, reduces harmonics, and maintains power factor in the most dynamic conditions.

Available in capacities ranging from 75 kVAR - 1,200 kVAR and voltages from 208 V - 600 V.



Power quality issues can be difficult and expensive to trace. But they don't have to be.

Whether you're experiencing a visible problem or getting penalties from your utility provider, you know when something's up. With a Powerside Power System Analysis, you can get your equipment running at peak performance.

We help facilities diagnose issues like:



Voltage spikes, swells and sags



Main service overload



Power factor penalties assessed by utility



Voltage and current harmonic disturbances



Unexpected power interruptions or shutdowns



Equipment failure

Our portable PQube 3 is the reliable, on-demand power analyzer used to help facilities **accurately detect power quality issues quickly.**

So how do you go about getting your analysis?

You can count the steps on one hand.



- 1** Ask for an analysis.
- 2** We'll send you a Portable PQube 3.
- 3** Let it run for 2 weeks.
- 4** We'll analyze the data and provide a full report with actionable power quality corrections solutions.

When plugged in, the portable PQube 3 auto-detects frequency, nominal voltage and wiring configuration.

Powerside analyzes the data in-house in real time with cellular data connectivity to the PQube portable system. You don't need to do a thing.

Helping facilities address, solve and correct power quality issues.

Real-world examples:

Food Processing:

Problem: High harmonic distortion and low power factor led to operational downtime.

Solution: A hybrid passive and active filter was installed to solve the power anomalies.

Manufacturing:

Problem: Utility bill increased significantly when local utility switched to kVAR billing.

Solution: Implemented 500kVAR detuned PowerVar with 50kVAR step resolution, to maintain an average power factor of 0.9957. **ROI achieved in less than 9 months with a \$4K a month reduced utility spend.**

Welding:

Problem: High harmonics and dynamic load which caused frequent capacitor bank failure and inability to maintain power factor.

Solution: Installed 900kVAR thyristor switched detuned PowerVar. Each stage switched over 10,000 times a day. **Decreased harmonics by nearly 5%.**





Before power quality problems become bigger problems, get Powerside on your side.

Power quality issues are inevitable. Diagnosing and correcting them is essential to ensuring your facility's overall performance, safety and reliability. Powerside technicians have the expertise needed to deliver fast and reliable detection of on-site power quality problems and offer the best power corrections solutions.

So, contact us today, request your Power System Analysis, and get back to business as usual.

powerside.com/powersystemanalysis

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