



POWERSIDE®

# Power Quality Solutions for Data Centers

Precisely monitor power behavior in your facility  
for effective response and recovery

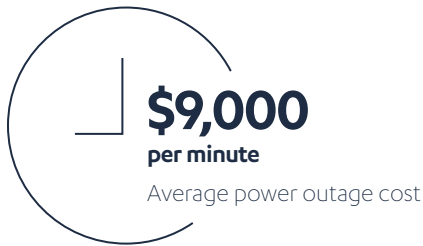
# Power quality issues are a critical threat often overlooked in the integrity of the system

Power quality issues, if left undetected, can undo all of the reliability and redundancy measures built into your data center design. What's worse, these issues can remain undetected without the right type of monitoring equipment on your system.

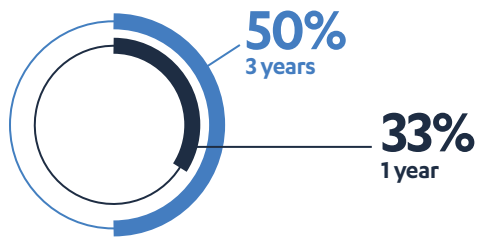
Power quality analysis, when combined with auxiliary system inputs, provides a complete picture of your power. It captures the data needed to identify the root cause of the issue — meaning you can improve troubleshooting and reduce guesswork.



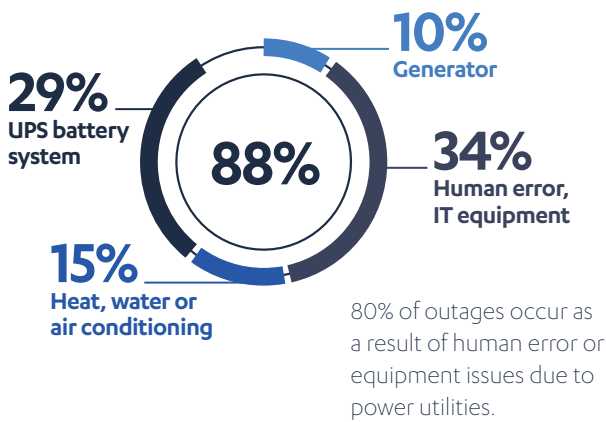
# Power threats come in many shapes and sizes. Many of them can be managed proactively.



The average cost of a data center power outage is \$740,357, or almost \$9,000 per minute — a statistic that continues to rise.



In a recent data center survey, more than 1/3 of respondents reported a power outage in the past year, and more than 1/2 reported at least one in the past three years.



Waveform	Defect Type
	Power Factor
	Harmonics
	Resonance
	Transients
	Voltage Variation
	Unbalance
	Flicker

# Shed Light on Power Quality with Powerside

Powerside is an established authority in power quality, with **15K+ customers** using **50K+ power monitoring units** across **50+ countries**. The reason data centers around the world trust Powerside solutions to help maintain uptime can be summed up in a few words: **reliability, cost savings, and safety and compliance.**

# Power quality solutions that keep you out of the dark

## Improved data center reliability

Gain real-time visibility into your power operations

Fast issue detection, identification and diagnostics

Extend equipment lifespans and minimize costly repairs

## Significant cost savings

Minimize downtime and troubleshooting costs

Reduce energy waste

Lower utility bills

## Safety & compliance

Avoid costly power factor penalties

Stay within IEEE 519 harmonics compliance

## 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 solutions combine power, power quality, equipment, and operations monitoring and documentation to maximize data center performance and profitability.



# Meet the PQube<sup>®</sup> 3e Power Analyzer

**Affordable, rack-level visibility into your power quality.** So data centers can respond to issues faster and keep uptime on track.

Monitor load profiles and load shedding, and measure multiple single-phase circuits — all from one compact device. Record precise power quality events and root cause data to show customers that electricity supply is not the cause of server problems.



## Always-on insights for smarter troubleshooting

**Constant monitoring flags power threats** before they escalate

**Real-time alerts** via email and/or SNMP-compatible systems

**Precise data and visualizations** accelerate diagnostics

**Built-in sensors** track temperature, humidity, heat and vibration

## Quick to deploy and easy to use



**Installs in 5** minutes or less



**Auto-configures** to match your electrical setup



**No software installation** necessary — just a network connection



**Seamlessly integrates** with existing infrastructure



**Unparalleled value** at <\$1,000/circuit with system-wide coverage



# Power analyzer comparison table

	PQube® 3e	Competitors			
		1	2	3	4
Multiple 3-phase circuits	○			○	
Harmonics (up to 50th)	○	○	○	○	○
Analog inputs	○	○	○		○
Environmental parameters	○				
4Mhz high-frequency processor	○			○	
No software required for event/trend analysis	○				
Email with event & trend data	○				○
Supra-harmonics (2-150kHz)	○				
Portable & permanent options	○	○		○	
DC voltage, current & power	○		○		
DIN rail mountable	○				○
Unit price index vs PQube 3e	<b>1.0x</b>	1.1x	1.7x	1.9x	2.7x
Price/Circuit index vs PQube 3e	<b>1.0x</b>	4.3x	7.0x	7.5x	10.8x

|| It configured itself automatically. I dumped the data just to see what was there, and it caught a big sag on Phase One. The graphs, data and reports were just there without any work. Thanks. It paid for itself already. ||

**Rockbridge Area Network Authority**

# Keep tabs on the power behavior in your facility

Reach out to get started today.

[powerside.com/contact-us](https://powerside.com/contact-us)

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