

All our energy, in your power

# Power Security for Data Centers

PQube<sup>®</sup>3e detects power security threats and directs effective response and recovery



powerside.com

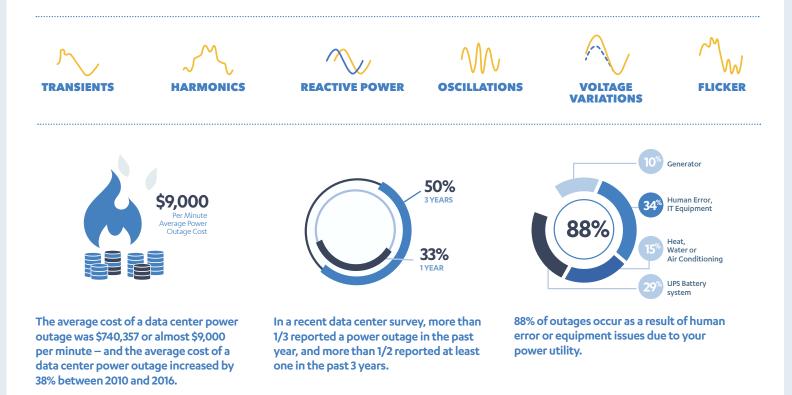
### Power Security issues are a critical threat that is often overlooked in a total security strategy



#### Power Security, like Cybersecurity and Physical Security, is a critical dimension of your overall security strategy.

Effective security protocols are built on the same three dimensions of Resiliency, Response and Recovery. Comprehensive Power Security ensures a higher degree of design Resiliency, data driven event Responses, and faster system Recovery.

# Power Security threats come in many shapes & sizes and many of them can be managed proactively



**Power Security solutions** combine power, power quality, equipment, and operations monitoring and documentation to maximize data-center performance and profitability.

# PQube 3e is a powerful and versatile Power Security solution

Constant monitoring enables early, rapid response to power threats

Real-time alerts support email and/or SNMP compatible direct connections Precise data and informative graphs support fast diagnostics and direct effective response

Environmental sensors including temperature, heat, humidity and vibration extend your security envelope



### PQube 3e is easy to use and affordable



#### Connect it, you're configured.

**Configures itself.** Installs in under 5 minutes. Once installed, PQube 3e auto-detects the main's frequency, wiring configuration, and nominal voltage.

**No software to install.** All you need is a network connection to auto-receive generated GIF graphs or CSV/Excel and PQDIF (IEEE standard) files.

**Integrates seamlessly** into a data center with SNMP compatibility.



#### Compact. Installs in minutes.

**Compact. Install anywhere.** The size of a Rubik's cube - 4"x 3"x 3". Snap-on to DIN rail; fits into a 19-inch rack and everything in-between.



#### Unparalleled value.

#### As low as \$1000/circuit.

With competitive pricing and 4 circuits per device, PQube 3e can be as low as 1/8th the cost per circuit when compared to other meters.

#### System-wide coverage.

No more compromises with under-monitored circuits. PQube 3e monitored Data Centers have more coverage, at lower cost.

#### Best ROI.

Root cause data analysis saves hours in outage response and remediation but pays for itself in the first 23 seconds saved!

# Why Choose Powerside for your Power Security needs?

# Powerside is an established authority in power monitoring

15,000 + Clients

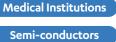
In 50+ Countries

50,000+ Deployed Units
5,000+ Correction Projects Completed

# Powerside is a trusted provider to critical industries including:

Data Centers

Electric Utilities



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# **PQube 3e Power Analyzers**

#### Learn why PQube 3e is the best power analyzer money can buy.

Versatile functionality. Perform load profile monitoring, load shedding and multiple single-phase measurements with one instrument at the rack level. Record precise power quality events and root cause data to show customers that electricity supply is not the cause of server problems.



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Power analyzer comparison table	PQube 3e	1	2	3	4
Multiple 3-phase circuits	$\bigcirc$	$\otimes$	$\bigotimes$	$\bigcirc$	$\bigotimes$
Harmonics (up to 50 <sup>th</sup> )	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigotimes$
Analog inputs	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigotimes$	$\odot$
Environmental parameters	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
4Mhz high-frequency processor	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigcirc$	$\bigotimes$
No software required for event/trend analysis	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
Email with event & trend data	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigcirc$
Supra-harmonics (2-150kHz)	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
Portable & permanent options	$\bigcirc$	$\bigcirc$	$\bigotimes$	$\bigcirc$	$\bigotimes$
DC voltage, current & power	$\oslash$	$\bigotimes$	$\bigcirc$	$\bigotimes$	$\bigotimes$
DIN rail mountable	$\bigcirc$	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigcirc$
Unit price index vs PQube 3e	1.0x	0.8x	1.2x	1.3x	1.9x
Price/Circuit index vs PQube 3e	1.0x	3.1x	5.0x	5.3x	7.7x

**Key Monitoring Applications** 

- Switchgear
- PDU
- Transformer
- Genset
- **UPS**



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"It configured itself automatically. I dumped the data just to see what was there and it caught a big sag on Phase 1. The graphs, data, and reports were just there without any work. Thanks. It paid for itself already."

- Rockbridge Area Network Authority

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