

Is Your Fault Detection Solution Ready for AI Workloads?

10 Questions for Data Center Operations Leaders

AI workloads are transforming power demand inside data centers—faster swings, higher density, and more harmonics than ever before. But most monitoring systems weren't designed for this.

This 10-question checklist will help you assess whether your current fault detection setup is truly ready for AI infrastructure—or leaving you vulnerable to power faults, missed capacity, and potential SLA penalties.

✅ Score yourself honestly. If you're answering "No" to more than 3, it's time to re-evaluate your tools.

For each question, select: Yes | No | Not Sure

1. Can your system detect faults that occur in less than 60 seconds?

🕒 AI power spikes are often brief but critical. Minute-level data is no longer enough.

1. Are you monitoring at the circuit level (not just PDU or panel)?

🔍 Faults often originate deep in the distribution tree. Granularity matters.

1. Does your fault detection solution surface voltage imbalance trends over time?

⚡ Imbalances are a leading cause of transformer failure and go unnoticed without phase-level tracking.

1. Can it identify harmonic distortion from AI workloads?

🔌 GPU clusters introduce harmonics that most systems ignore—until damage occurs.

1. Does your system offer root cause insights, not just alarms?

🧠 Alerts are useless without actionable context. Are your teams still guessing?

6. Can it diagnose nuisance tripping and prevent recurrence?

🔴 False trips hurt uptime. You need analytics that connect cause and effect.

1. Are you able to run retrospective fault detection on historical data?

📅 When new fault types emerge, can you scan the past to surface risks?

1. Does your system correlate power anomalies across circuits?

🔗 Complex faults rarely happen in isolation—are you seeing the big picture?

1. Can it help you plan capacity safely for high-density AI clusters?

📊 You need more than thresholds—you need insight into what your infrastructure can handle.

1. Are power faults still showing up as surprises?

💣 If you're still saying "we didn't see that coming," your fault detection solution isn't doing its job.

Tally your Yes answers:

- 8–10 Yes → You're in great shape. Your fault detection solution is AI-ready.
- 5–7 Yes → You're holding steady, but may be exposed to new fault types.
- 0–4 Yes → Your system likely isn't keeping up with AI demands. You're operating with risk.

Rethinking fault detection? Future-proof your operations with a modern solution.

LET'S TALK