

Infra Inspection Services

Preventive maintenance



InfraRed analysis allows you to quickly identify critical hotspots in a UPS system: a step toward predictability and failure prevention.

Why infrared?

A UPS system contains several critical components: capacitors, batteries and power electronics. These components share three characteristics: their service life is highly affected by temperature, their heating-up is usually a sign of expected failure and, most important, their malfunctioning will have a destructive effect not only on performance but on the UPS itself.

ABB InfraRed services allows identification of deviant thermal patterns in the system, which often indicate (future) issues with aging components or loose connections. Thermal analysis pinpoints a weak component before it fails, increasing system reliability and reducing costly unscheduled maintenance.

Non-intrusive, non-contact infrared thermography is a fast and safe tool to check your system components and will thus significantly impact your troubleshooting and maintenance productivity.

Features & benefits

Hotspot identification

Identify (potentially destructive) hotspots in your UPS system, at board or system levels that would have been otherwise virtually impossible to detect.

Contactless operation

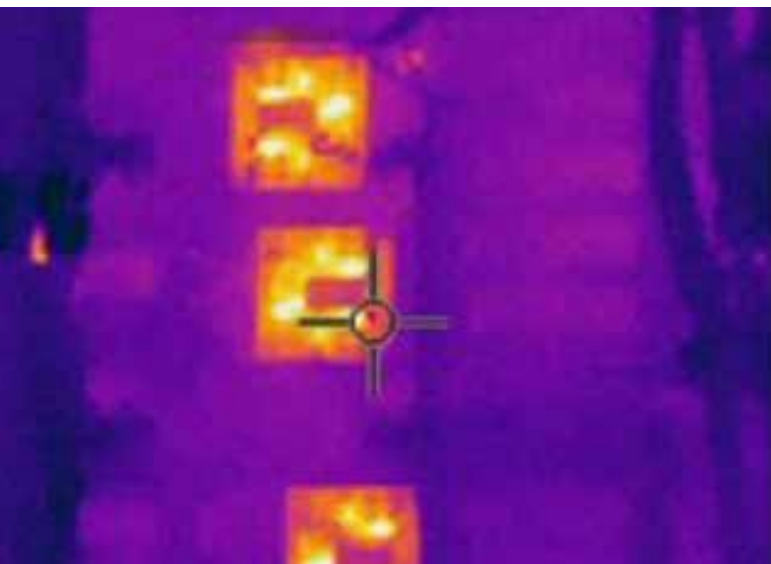
With infrared electrical inspection, there's no need to physically touch any part of the system. Work can thus be performed safely.

System Health Assessment

The ABB UPS Service Team will provide a detailed report of the measurement taken, indicating any critical situation.

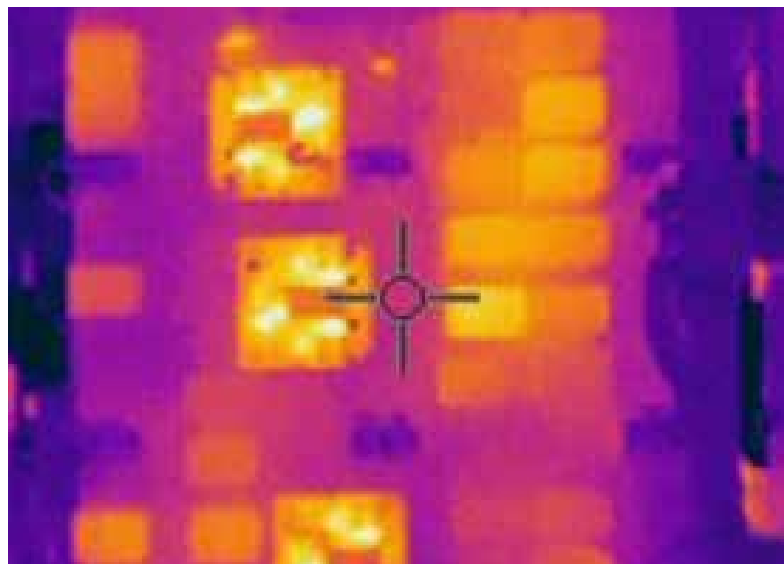
Critical UPS components

- Aging batteries
- Defective cabling
- Loose connections
- Deteriorating power electronics
- Capacitors
- Circuit breakers



01

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01 Printed circuit board,
normal situation
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02 Failure ahead!



02

Improve preventive maintenance

Simply take a thermographic picture of critical components and detect potential problems in the early stage.

UPS Services

ABB's UPS Services offerings range far beyond standard product support: from on-site services for risk-reducing installation and startup, to availability services to help you proactively reduce downtime and meet your service-level commitments.

From installation to product retirement, warranty upgrades to remote monitoring, proactive care to 24/7 problem resolution, you can rely on ABB's UPS field service organization for all your electrical infrastructure support needs.

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