ELION TECHNOLOGIES & CONSULTING PVT. LTD.

Infrared Testing Checklist for Electrical Panels

Printable pre-inspection, thermography and corrective-action checklist

Technical resource | Version 1.0 | November 2026

Web: https://elion.co.in/infrared-testing-services/

Technical notice: This document is a guidance/template resource. It is not a certificate of inspection, test result or statement of conformity.

Purpose and instructions

Use this printable infrared testing checklist when planning and reviewing thermal inspections of LT/HT electrical equipment. Enter Pass, Fail, N/A, or Not Verified in the blank column. This checklist is a planning aid, not proof of testing or a universal legal requirement.

Stage	Verification item	Status / notes
Before inspection	Approved asset list, location and identification	_____
Before inspection	Site permits, safe access and energised-work controls	_____
Before inspection	Qualified inspection personnel and PPE as required	_____
Before inspection	Suitable infrared camera, calibration and battery checks	_____
Before inspection	Representative load and operating state confirmed	_____
Before inspection	Inspection windows or approved access arrangements	_____
During inspection	Ambient and reflected temperatures considered	_____
During inspection	Surface emissivity, angle and reflections reviewed	_____
During inspection	Visible-light and thermal image captured together	_____
During inspection	Spot temperatures and comparable references recorded	_____
During inspection	Phase current or load information documented if available	_____
During inspection	Anomalies flagged for further engineering review	_____

Stage	Verification item	Status / notes
After inspection	Every finding linked to an identifiable asset	_____
After inspection	Risk priority evaluated, not from delta-T alone	_____
After inspection	Corrective actions and responsible owners allocated	_____
After inspection	Reinspection / closure evidence recorded	_____

Minimum details to record

Field	Entry
Client / facility	_____
Area / panel / asset	_____
Inspection date / inspector	_____
Camera model / serial	_____
Ambient temperature / load	_____
Findings reference	_____
Review / closure approval	_____

Important inspection precautions

Do not remove covers from energised panels solely to obtain a thermogram unless an approved and competent safe-working procedure permits the action. Thermal imaging cannot reveal hidden conditions through opaque barriers. Prioritise findings based on risk, actual loading and equipment-specific limits.

Related resources

Infrared Testing Sample Report, Thermography Testing Procedure and Corrective Action Tracker are available as companion resources for Elion infrared testing services.

https://elion.co.in/infrared-testing-services/