Electrical Appliance Testing and Certification Guide

Place certified Electrical Appliances on the market

Who is BSI?

The British Standards Institution (BSI) is a globally recognized national standards body and a leader in testing, certification, and compliance services. Within BSI, the Product Certification division works with manufacturers across industries to ensure their products meet the required safety, quality, and regulatory standards for global market access.

For electrical appliance manufacturers, BSI offers:

- Third-party testing and certification against key standards (e.g., BS EN, IEC)
- CE and UKCA marking support
- CB Scheme certification for international recognition
- The trusted BSI Kitemark™, demonstrating proven safety, performance, and consumer assurance

BSI helps you navigate complex compliance landscapes with confidence supporting product launch, ongoing quality assurance, and brand differentiation.

FAQs

1 What is appliance testing and why is it required?

Appliance testing ensures that your electrical product meets relevant safety, performance, and regulatory standards. It is essential for legal market access (e.g., CE or UKCA marking) and demonstrates that your product is safe to use and fit for purpose.

2 What types of electrical appliances need testing?

Any product powered by electricity that is intended for household or commercial use typically requires testing. This includes:

- Cooking appliances (e.g., hobs, ovens)
- Room heaters
- Refrigerators and freezers
- Washing machines
- Thermostats and other control devices

3 What standards do my products need to meet?

It depends on the product type and market. Common standards include:

- BS EN 60335 series for household appliances
- BS EN 50564 for low power consumption
- BS EN 60730 for electrical controls

BSI can help you identify which standards apply to your specific product.

4 What is CE and UKCA marking?

CE marking is required for products sold in the EU, indicating conformity with European safety and environmental directives.

UKCA marking is the UK equivalent, mandatory for products sold in Great Britain.
Both require testing and technical documentation to demonstrate compliance.

5 What is the CB Scheme and how can it help me?

The CB Scheme (Certification Body Scheme) is an international system that allows you to obtain a single test report accepted in over 50 countries. It streamlines global certification by avoiding repeated testing in each country.

6 What is the BSI Kitemark™ and why should I get it?

The BSI Kitemark™ is a voluntary, independent certification mark that demonstrates a product has been tested for safety, quality, and performance — and continues to meet those standards over time. It is recognised by consumers, specifiers, and regulators alike.

Your steps to success

Please note that this is not a comprehensive technical overview of the testing requirements.
It is intended to highlight key steps of the testing and certification process.

Step 1

Identify applicable standards

- **BS EN 60335-2-6:** Safety of household electric cooking appliances (e.g., electric hobs, ovens, cooktops)
- **BS EN 60335-2-30:** Safety of household electric room heaters (e.g., portable electric heaters, wall-mounted panel heaters)
- **BS EN 60730-1:** Automatic electrical controls for household use (e.g., thermostats, timers for heating/cooking appliances)
- **BS EN 50564:** Measurement of low power consumption for household and office equipment (e.g., standby power of televisions, printers, monitors)
- Leverage our Electrical Appliances Standards Checklist to support identifying those standards your product requires certification here

Step 2

Read and understand the standard

- Identify key product testing criteria within the chosen standard
- Depending on your experience, you may also want to explore working with an Associate Consultant in our ACP Programme – third-party consultants who support organizations through testing and certification of their products or services.

Step 3

Compile your technical documentation

- Electrical schematics
- Component specifications
- Test results
- Installation and user guides
- Maintenance procedures

Step 4

Reach out to BSI for testing and evaluation

- Submit products for testing against relevant standards
- Undergo factory inspections to assess quality management systems
- Implement corrective actions for any identified issues

Other schemes and market-specific marks to consider

CE Marking

CE marking is a mandatory conformity mark for products sold in the European Economic Area (EEA). It confirms that a product meets EU health, safety, and environmental protection standards, and is approved for sale across EU member states.

UKCA Marking

UKCA (UK Conformity Assessed) marking is the UK's post-Brexit equivalent of CE marking. Required for most goods sold in Great Britain, it demonstrates that a product complies with UK regulations and is safe for the local market.
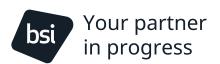
CB Scheme

The CB Scheme (Certification Body Scheme) is an international program that facilitates global market access. It allows manufacturers to use a single test report to gain product certifications in over 50 member countries, reducing duplication and accelerating entry into international markets.

BSI Kitemark™

The BSI Kitemark™ is a voluntary certification mark that signifies a product has been independently tested and proven to meet rigorous safety, quality, and performance standards. Recognised by consumers, retailers, and regulators, it helps differentiate products and build trust in your brand.

Ensure the test standard requirements of these Schemes and Market-Specific Marks have been identified for inclusion in your certification and testing journey.

bsi Your partner in progress

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