

Batteries & Accumulators

Product safety & compliance

Eurofins E&E

Eurofins Electrical and Electronics (E&E), part of Eurofins Consumer Product Testing (CPT) Division, is a global network of accredited laboratories offering electronic compliance testing, inspection, certification and market access services, enabling your electrical products to be safely marketed in the destination countries, in a cost and time efficient manner.

Our teams of highly experienced engineers understand both the technical and administrative regulatory requirements of the compliance process and can help you ensuring that your batteries, cells and accumulators meet the electrical, mechanical, performance, reliability and safety requirements for global markets.

Service scope

Product testing

We offer testing of primary (non-rechargeable) and secondary/accumulator (rechargeable) batteries at cell and pack level for alkaline, lead-acid (VLRA, SLA, etc.), Nickel (NiMH, NiCad etc.) and primary and secondary Lithium (Lithium

coin cells, Li-ion, Li-metal etc.). Our services include, but are not limited to:

- Product marking & packaging
 - Dimensions, marking & designation
 - Packing safety testing for coil cells
 - Product labelling & documentation
- Performance
 - Battery life & charge cycling
 - Shelf-life & charge retention
 - Battery capacity & discharge testing
 - Electromagnetic Compatibility (EMC)
- Mechanical
 - Impact & crush resistance
 - Vibration, impact, shock & free-fall drop tests
- Safety
 - Operational safety
 - Continuous charging & low-rate charging
 - Overcharging & over-discharge
 - Short-circuit, leakage & thermal runaway
 - Electrostatic discharge (ESD)
 - Incorrect installation & reverse polarity
- Environmental
- Thermal abuse, temperature & humidity
 - Altitude simulation, immersion & salt fog
 - Fire propagation & projectile hazard

Our testing services cover an extensive range of key standards, including but not limited to IEC/EN 60086, IEC/EN/UL 62133, IEC/EN 61960, IEC/EN 61951, IEC/EN 61959, IEC/EN 60896, UL 2054, UL 1642, UN 38.3, GR-4228-Core, IEEE 1625 & IEEE 1725.

Certification services

Our services include certification for compliance with national and international Regulations & Directives including, but not limited to:

- **Regulation (EU) No. 1103/2010**, pursuant to 2006/66/EC with regards capacity labelling of portable secondary (rechargeable) and automotive batteries and accumulators.
- **European Directive 2006/66/EC** on batteries and accumulators and waste batteries and accumulators, and its amendments in Directive 2013/56/EU for CE marking.

- **United Nations (UN) 38.3** regulations on the transport of dangerous goods.
- **European Low Voltage Directive 2014/35/EU** safety requirements for implemented cells and batteries.

Inspection & audits

Alongside the testing and certification of products, the ongoing inspection and auditing of manufacturing facilities, locations, production lines, and products before, during or after production is a vital part of the process of delivering and continuing to deliver compliant products to market.

Eurofins offers a range of auditing and inspection services in manufacturing countries, such as raw material inspection, production line and post-production sampling, and pre-shipment inspections for all types of electrical consumer products.

For full details of our testing services for batteries, cells and accumulators, contact your local Eurofins E&E laboratory.

