
Electromagnetic compatibility laboratory

EN-ISO 17025 accredited

- Examination of compliance with EMC standards
- CE Marking
- 2014/30/EC EMC Directive
- Emission and Immunity tests
- Measurement of electromagnetic fields

Expert advice

Broad range, flexible service

To check compliance with the EMC standards, our EMC laboratory offers you the following accredited services (non exhaustive list).

IEC / EN 61000-6-1	Immunity for residential, commercial and light-industrial environments
IEC / EN 61000-6-2	Immunity for industrial environments
IEC / EN 61000-6-3	Emission standard for residential, commercial and light-industrial environments
IEC / EN 61000-6-4	Emission standard for industrial environments
IEC / EN 61000-6-5	Immunity for equipment used in power station and substation environment
IEC / EN 60601-1-2	Medical electrical equipment. General requirements for basic safety and essential performance
IEC / EN 50121-1	Railway applications - Electromagnetic compatibility
IEC / EN 50121-3-2	Railway applications - Electromagnetic compatibility Rolling stock
IEC / EN 50155	Railway applications - Electromagnetic compatibility used under Rolling stock
IEC / EN 50130-4	Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems
IEC / EN 50293	Road Traffic Signal Systems
IEC / EN 61326-1	Electrical equipment for measurement, control and laboratory use
IEC / EN 61547	Equipment for general lighting purposes. Immunity requirement
IEC / EN 62052-11	Metering equipment
IEC / EN 62052-21	Electricity metering – Tarif and load control
CISPR 11 / EN 55011	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
CISPR 14-1 / EN 55014-1	Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
CISPR 14-2 / EN 55014-2	Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity
CISPR 15 / EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 24 / EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 32 / EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
IEC / EN 61000-3-2	Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC / EN 61000-3-3	Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
IEC / EN 61000-4-2	Electrostatic discharge immunity test
IEC / EN 61000-4-3	Radiated, radio-frequency, electromagnetic field immunity test
IEC / EN 61000-4-4	Electrical fast transient/burst immunity test
IEC / EN 61000-4-5	Surge immunity test
IEC / EN 61000-4-6	Immunity to conducted disturbances, induced by radio-frequency fields
IEC / EN 61000-4-8	Power frequency
IEC / EN 61000-4-9	Pulse magnetic field immunity test
IEC / EN 61000-4-10	Damped oscillatory magnetic field immunity test
IEC / EN 61000-4-11	Voltage dips, short interruptions and voltage variations immunity tests
IEC / EN 61000-4-13	Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests
IEC / EN 61000-4-16	Immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz
IEC / EN 61000-4-17 (*)	Ripple on D.C. input power port immunity test
IEC / EN 61000-4-18	Damped oscillatory wave immunity test
EN 298	Automatic burner control systems for burners and appliances burning gaseous or liquid fuels

(*) not under EN-ISO accreditation



A BELAC EN-ISO 17025 accredited laboratory

Broad range, flexible service



Accr. 002-Test
EN-ISO 17025

CE marking – Meeting the standards and specifications

Electrical low voltage equipment must meet the relevant European standards on safety and Electromagnetic Compatibility (EMC). In many cases it must meet additional customer specifications. As a manufacturer or importer you need a written guarantee that your products comply with these standards and specifications. BELAC accredited tests offer an independent and accurate assessment of your equipment.

Test in lab and in situ

The experts of ENGIE Laborelec conduct BELAC accredited tests in their own laboratory. Since larger machines are often difficult to transport, you can also make use of an unique service in which they carry out the tests on your premises. They use all the appropriate measurement methods and have all the required tools at their disposal. Due to the huge diversity of electrical equipment on the market, orientation tests are made before conducting tests in situ.

Recommendations during new design and construction

During the design or construction of appliances, you can call upon the assistance of our experts. The implementation of the proper EMC methods, based on their recommendations, will help you to develop your future design. In this way, you will be assured that the final products will meet all EMC standards.

You may be demanding

The service is fast and flexible: normal appliances take about 14 days, and customised tests are also possible.

Knowledge of specifications

Making use of ENGIE Laborelec's service means that you are supported by years of experience in low voltage equipment testing. The EMC laboratory has been BELAC accredited for many years. Our experts regularly advise members of the ENGIE Group on writing specifications for low voltage equipment. This is your guarantee that the EMC team keeps a close eye on all the latest EMC developments.

You can rely on your BELAC report confirming that your appliances meet all the relevant EMC standards.





Five reasons for you to choose Laborelec

- Wide range of technical competencies in Electricity Generation, Grids, and End-Use
 - Increased profitability and sustainability of your energy processes and assets
 - Unique combination of contract research and operational assistance
 - Independent advice based on certified laboratory and field analyses all over the world
 - More than 50 years of experience
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Would you like to know more?

Don't hesitate, send us an e-mail.

ENGIE Laborelec

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