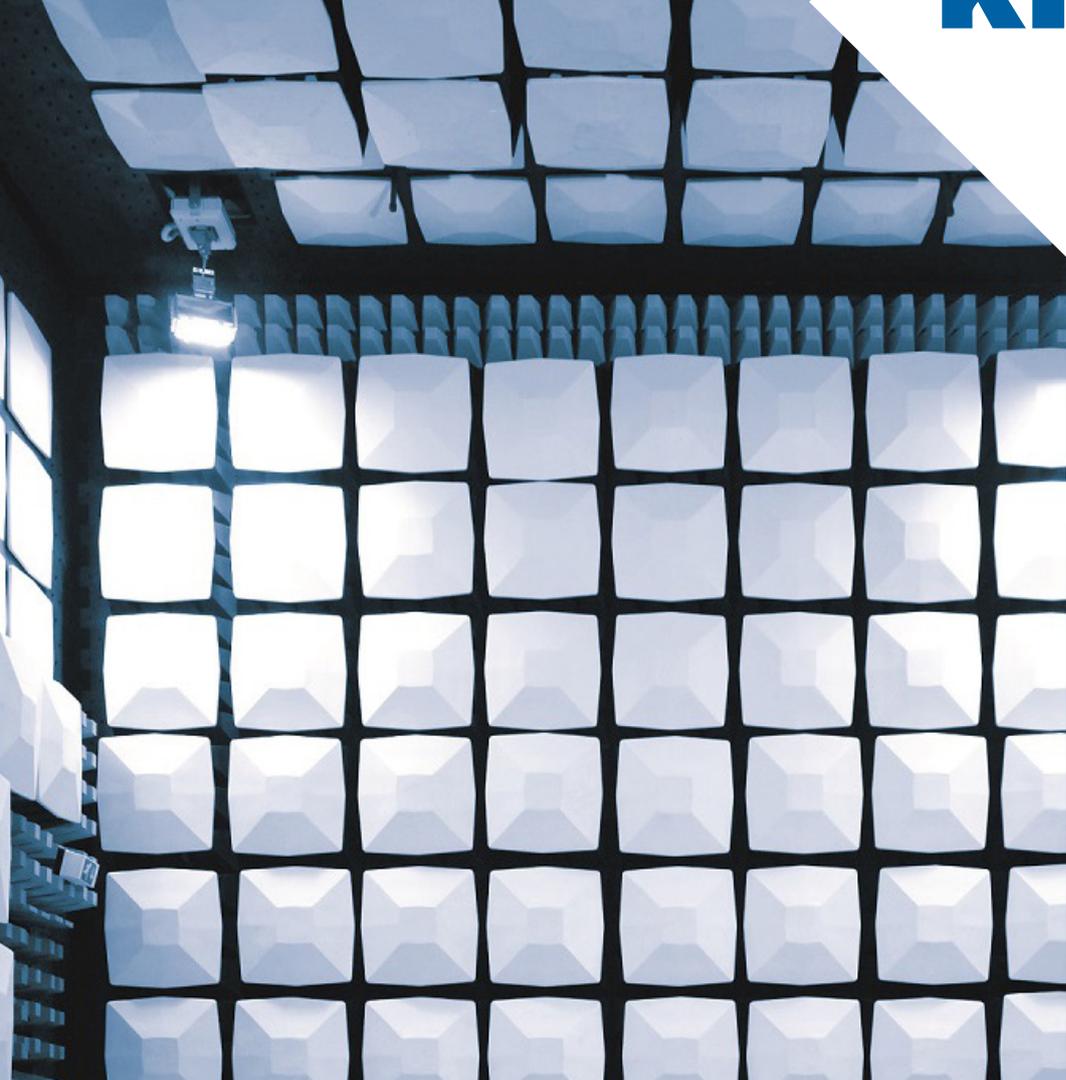


Creiven Laboratories

Reliability and competence
to meet market needs

Kiwa Italy Group



Trust
Quality
Progress

Electrical Safety Tests (LVD)

CREI Ven boasts a consolidated experience in the testing and certification of electrical products. It collaborates closely with its customers, allowing quick access to the market. It participates in the development of European and international product safety technical standards. The CREI Ven test laboratory is equipped with the most modern tools compliant with the applicable regulations, as well as with controlled sources up to 0.7 megawatts and boasts testing areas to carry out:

- failure tests
- electrical absorption measurements
- heating tests
- leakage current tests
- dielectric strength tests
- earth resistance measurements
- insulation resistance measurements
- IP tests
- tests on insulating materials

The services offered by the CREI Ven Laboratory include:

- Tests and verifications with reference to the EN/IEC Standards
- Tests and verifications for the issue of the CE marking
- Analysis and certification of security software
- CB certificates
- Tests and verifications for the issue of various European and international certification marks
- Pre-conformity tests

Tests performed in reference to multiple types of products, including:

- Household and similar appliances
- Information Technology and office equipment
- Power conversion equipment (inverters) used in renewable energy plants
- Electrical equipment for measurement, control and laboratory use
- Automatic electrical command and control equipment
- Static uninterruptible power systems (UPS)
- Electro-medical equipment
- Lighting equipment
- Associated machines and panels

Find out more about Kiwa Creiven services at



<http://www.kiwacreiven.it>



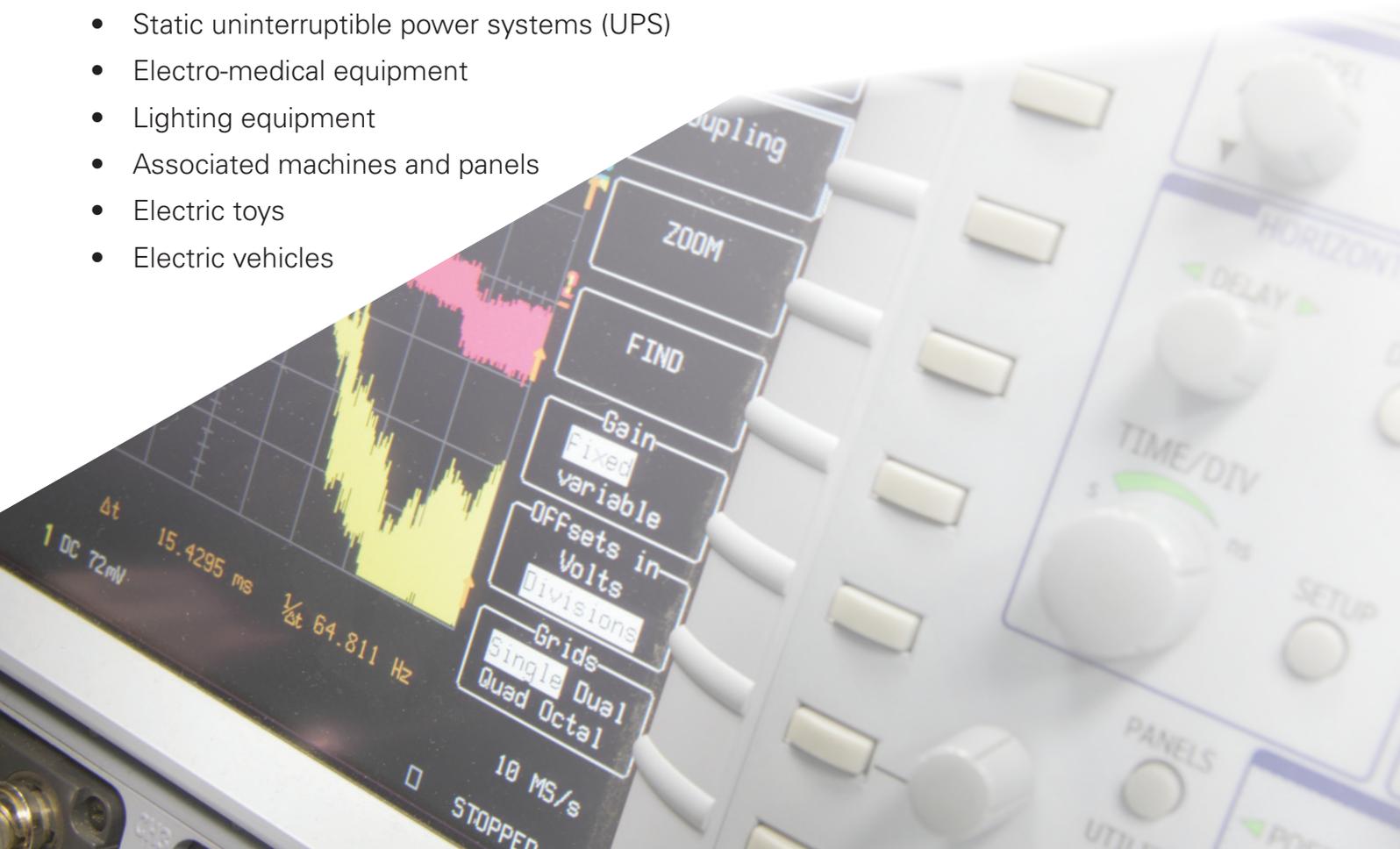
Electromagnetic Compatibility Tests (EMC)

The CREI Ven EMC Laboratory boasts over 25 years of experience in carrying out electromagnetic compatibility tests. Also thanks to our consolidated technical expertise and the most modern instruments compliant with the applicable regulations in force, CREI Ven represents a unique partner for its customers at the service of the market. The electromagnetic compatibility laboratory is equipped with anechoic and shielded chambers capable of operating on large systems (2.5 x 2.5 m, up to 2000 kg) and high power. The services offered by the CREI Ven Laboratory include:

- Tests and verifications with reference to the EN/IEC Standards
- Pre-conformity tests
- On-site tests at customers' premises
- CE marking
- Notified Body (Directive EMC 2014/30/EU)
- CB certificates

Tests performed in reference to multiple types of products, including:

- Household and similar appliances
- Information Technology and office equipment
- Power conversion equipment (inverters) used in renewable energy plants
- Electrical equipment for measurement, control and laboratory use
- Automatic electrical command and control equipment
- Static uninterruptible power systems (UPS)
- Electro-medical equipment
- Lighting equipment
- Associated machines and panels
- Electric toys
- Electric vehicles



Radio Equipment Tests (RED)

The Radio Equipment Testing Laboratory (RED) is equipped with large, modern anechoic chambers and boasts the most modern instruments compliant with the applicable regulations in force and is therefore able to offer a complete portfolio of testing services with reference to the European Directive and the most advanced international regulations. Thanks to the reduced testing times and to the flexibility in the provision of the service, the RED Laboratory guarantees customers fast access to the market. The services offered by the CREI Ven Laboratory include:

- Tests and verifications with reference to the ETSI/EN standards
- Tests and verifications with reference to applicable international standards for the occupation of the radio frequency spectrum
- Notified Body (RED Directive 2014/53/EU)

Tests conducted with reference to multiple types of products including:

- Short Range Devices (SRD), frequencies used from 9 kHz to 40 GHz
- Broad band transmission systems; data transmission devices that work in the 2.4 GHz ISM band
- Radio service equipment for information technology

Renewable Energy Tests

The CREI Ven Laboratory performs tests and verifications for photovoltaic, storage, wind, hydroelectric, CHP and other types of generators, both with electronic converters and directly connected to the electricity grids. Laboratory personnel can operate both at CREI Ven's premises (power up to 700 kVA) and at the customer's premises or on installation sites.

Our Laboratory is equipped with:

- Precision grid simulators, from 30 kW up to 0.7 MW
- Photovoltaic simulators from hundreds of Watts up to 0.5 MW
- Availability of an additional AC power line (0.7 MW), for the use of dedicated AC or DC simulators
- Equipment for UVRT/OVRT (Low/High Voltage Ride Through) testing
- Resonant loads for anti-islanding testing (up to 0.7 MW)
- Precision current transducers ($I_{max} = 2,000 \text{ A}$)
- High precision power measuring tools, for carrying out tests in full compliance with the applicable regulatory requirements

Innovation partner since 1995

We have been providing our customers and the market with our experience, our knowledge, our skills and the necessary tools to offer complete solutions to innovation needs, supporting you in your product certifications for over 25 years. We are the only point of reference on the market for the electricity sector and for renewable energy, making all our know-how available to provide effective answers to our customers and guarantee access to the global market.

Founded in 1995 as a private non-profit consortium, thanks to a constant attention to the needs of the market, CREI Ven has become a reference laboratory in the field of electrical safety, electromagnetic compatibility, tests on radio equipment and in the energy sector.

Founded in 1995 as a private non-profit consortium, thanks to a constant attention to the needs of the market, CREI Ven has become a reference laboratory in the field of electrical safety, electromagnetic compatibility, tests on radio equipment and in the energy sector. Today, we have Electromagnetic Compatibility and Electrical Safety laboratories, equipped to carry out testing to ensure compliance with European directives and international technical standards, using high-trained personnel, with many years of experience and with an organisation capable of ensuring the execution of the activities in set times.

More value to your Quality with our Accreditation Services

CREI Ven's accreditation services confers a high degree of reliability to the certificates and test reports issued in terms of quality and safety of the verified products, guaranteeing their recognition on international markets. The Electromagnetic Compatibility, Electrical Safety and Renewable Energy laboratories are accredited by ACCREDIA (LAB no. 0259) to perform over 200 tests. CREI Ven is also recognised as a European Notified Body for the EMC and RED Directives. Moreover, CREI Ven operates as a CB Testing Laboratory (CBTL) for the following product categories: EMC, HOUS, MED, OFF, PV.



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