Certification of Power Electronics Equipment
Conformity Assessment and Certification services on electronic devices to certify the compliance with national and international standards and European Directives.

AIMED AT
- Manufacturers of equipment
- Utilities
- Wholesalers and importers

SERVICES
- Conformity Assessment with standards and customers specifications
- Technical assistance
- Technical consulting
- Market surveillance

TEST OBJECTS
- PV Inverters
- Power Converters
- FACTs
- Motor drives
- Electronics for grid connection
- Smart Meters
- Batteries
- Flux regulators
- EV Charging stations

TESTS
- Recognized testing of equipment according to each country requirements
- Quality evaluation of PV panels
- Measurement and monitoring of the quality of the power supply
- Consultancy related with plants
- On-site testing of equipment (batteries, UPS, power electronics equipment, wiring...)
- Efficiency measurement
- Functional tests

• Top level Laboratory in Europe
• International Recognition
• Competence and Independence
TESTING & CERTIFICATION OF PV INVERTERS WORLDWIDE

CE Marking: EN 50178, EMC
Germany: DIN VDE 0126-1, VDE-AR-N 4105, FGW-TG Part 3
Italy: CEI 0-21, CEI 0-16
Australia: AS 477-2, AS 477-3, AS 3100
Spain: RD 1663, PO12-3, UNE 206007-1 IN
UNE 206007-2 IN
Other standards: G83-2, EN 50438, EN 50530, IEEE 1547, IEEE 929, IEC 62116, IEC 60364, IEC 61683, IEC 61727, IEC 61851-1, IEC 61851-22, IEC 62109-1, IEC 62109-2, CSA 22-2,
Voltage Dips: RD 1565/2010 (PVVC ver.9)

FACILITIES

- Flex Power Grid Laboratory  AC for testing power electronics in LV, under realistic grid conditions.
- AC power supply sources: 165 kW adjustable; 450 kW fixed
- DC power supply sources: 150 & 300 Kw adjustable to 1000 VDC
- 3 m Climatic chamber
- RLC loads for Q > 2.5 for 150 kW inverters in anti-islanding tests

TECNALIA is a private applied research & testing centre with the necessary human resources to generate technological knowledge. A combination of technology, tenacity, efficiency, courage and imagination.
TECNALIA has over 1,500 expert staff working together towards a common goal: generating business opportunities through applied research and technical services.

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