

ELECTROMAGNETIC COMPATIBILITY / PRODUCT SAFETY

Electrical safety of equipment

Product safety

The Equipment and Product Safety Act (GPSG) from Jan. 06.2004 and the Low Voltage Directive 73/23/EEC issued by the EU oblige you, as the manufacturer and commissioner of electrotechnical products, to ensure that your products do not endanger the life and health of persons nor cause physical damage throughout their lifetimes if used correctly for their intended purposes. This obligation also applies to faulty products.

The product safety defined in these terms is assured in the eyes of the Equipment and Product Safety Act provided you have developed and manufactured your product in accordance with the generally recognized rules of technology and with the industrial safety and accident-prevention rules. In the area of electrotechnical products, this principally means conformance with the relevant IEC/EN/DIN standards and VDE regulations in addition to observance of the accident-prevention rules issued by professional and trade associations.

Test Equipment



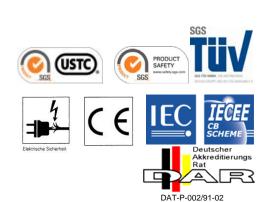
DC Test Equipment Technical Data: Primary: 2x63A Secondary: 48V / 60V 600A Peak current: 10000A Field of application: Simulation of DC Central Power Supply



AC Test Equipment

Technical Data: Primary: 400V, 63A Secondary: 230/400V, 63A Measurements: Electric Strength Isolation Resistance, Leakage Current Discharge Voltage, Efficiency Factor Power Factor

Transient Recorder Scope 12 Channel (8+4) High Resolution Variable Preamplifier Long Term Measurement Test Report Generation



Our Service.

- Consulting and training in case of requirements of direktives and standards
- Choosing of relevant standards
- Acquire remedial actions to fulfill the requirements
- Preliminary tests in development process
- Type testing as basis for product conformity procedure
- Test procedures according costumer specific requirements
- Approval procedures with NRTL USTC
- NEBS qualification within the NTS ITL Program
- Certification Agent for chinese CCC certification
- International CB Scheme Certificates / Test Reports

Safety regulations

The applicable safety regulations for devices and systems include detailed individual requirements to minimize the risks of the different types of danger.

After completion of its development, a product is checked for compliance with all safety requirements in a stept-by-step tests procedure carried out on a prototype or series pilot model. A test protocol is recorded as the basis for conformance declaration and/or Listing by NRTL.

Abridgement of our scope:

- IEC/EN 60950-1, UL 60950, AS/NZ 60950
- IEC/EN 60204, NFPA 79
- IEC/EN 60215
- IEC/EN 60825
- ETSI EN 300 132
- TR 1555
- GR1089
- GB4943

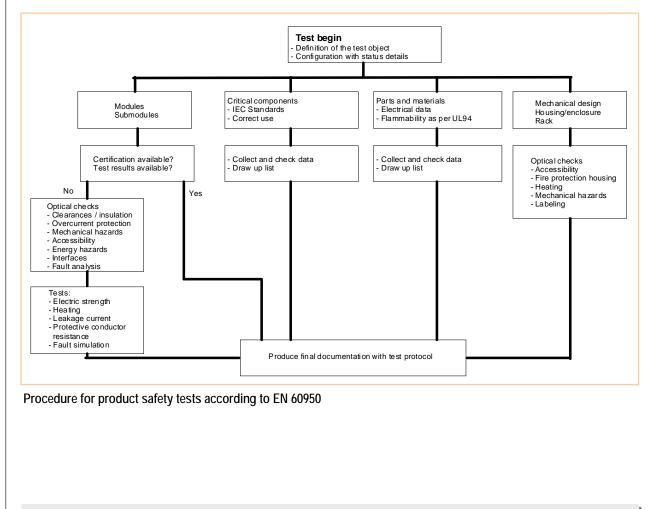


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Product safety & product liability

Electrotechnical products can harbor the following hazards

- Electric shocks due to inadequate insulation, openings in protective enclosures, overly high leakage currents or insufficiently dimensioned protective conductor connections
- Fire due to component failure, faulty connections, failure of creepage distances that are too small, an inadequate or failed cooling system, overload of the cooling system, overvoltage/undervoltage, etc.
- Injuries due to rotating parts, sharp edges or instability of the object
- Injuries due to explosion or implosion
- Illnesses or deterioration in health due to excessively high emission levels (for example, regarding sonar, high frequency, X-ray or laser radiation, or toxic materials)



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