



ELECTROSTATIC CHARGE ATTENUATION TESTER

Electrostatic Charge Attenuation Tester ToronPC™ ECAT is an advanced electrostatic charge attenuation tester designed for precise analysis. It features a high-performance step voltage generator, optimized signal acquisition, and computer-controlled real-time monitoring. Ideal for measuring half-life, shielding efficiency, and voltage-time curves with exceptional accuracy.

The sample was charged using a step voltage induction method. Its half-life and shielding efficiency were measured in a non-contact state.

APPLICATIONS

Standards

1. EN 1149-3-2004 Test methods for measurement of charge decay, Method 2

FEATURES

1. **High-Performance Pressure Device:** Capable of generating a step voltage of (1200 ± 50) V within just 30 μ s.
2. **Signal Acquisition Sensor:** Effectively eliminates zero drift and external interference in electrostatic potential, enhancing signal processing and improving detection precision.
3. **Smart Computer Control:** Provides real-time monitoring of the voltage-time curve, sample voltage half-life, and shielding efficiency. Includes features like data storage, historical data retrieval, and curve printing for seamless analysis.

TECHNICAL SPECIFICATIONS

Model	ToronPC™ ECAT
Step voltage generator	(1200±50) V step voltage
Attenuation time	Range 0 ~ 180 seconds can be set, error ±0.01 seconds
Signal acquisition sensor	Φ (30±1) mm metal disc, surrounded by the ground protection ring, the probe is connected to the amplifier. The distance between the sensor surface and the top of the support ring is (50±1) mm
Electrode	Diameter of Φ (70±1) mm stainless steel disc, fixed on the insulation bracket
Support ring	Metal ring, the inner diameter of Φ (100±1) mm, the support ring top and the electrode surface distance is (4.0±1) mm, and the electrode coaxial
Sample clamp ring	Composed of an inner ring and an outer ring, the sample is placed between the inner and outer rings; The outer diameter of the inner ring is (250±1) mm, the inner diameter is (220±1) mm, and the ground, with the electrode and support ring coaxial. The outer ring is made of elastic (bendable) material, which is convenient to hold the sample
Attenuation multiplier	Range of 0.1% ~ 100% can be set
Sample size	300 mm x 300 mm
Working Voltage	AC220V 50 Hz (110V is also available)



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