

PS 1500

15kV Voltage Surge Generator

■ **PS 1500** is a generator fully compliant to the IEC, EN and UL requirements for safety testing of components. Clause 10 of the **IEC 60065** standard specifies tests on equipment insulation, clause 14 is written to test the insulation of components used in household equipment.

Section 16 of **UL 1414** specifies discharge tests for Line-by-pass and antenna coupling components. The imminent danger these standards hope to avoid is against breakdown caused by surges from thunderstorms.

EN 60065 is a standard required to fulfill the Low Voltage Directive 73/23/EEC for the testing of Audio and Video equipment connected to the power mains or other power supply.

In all standards, discharges with the following parameters are defined;

- 50 discharges
- 12 per minute maximum
- 1nF capacitor charged to 10kV.

PS 1500 exceeds these requirements and also provides a 4M ohm resistor which can be switched electronically in parallel with the test component.



Features

- ☑ 15kV discharge
- ☑ Impulse counter
- ☑ Discharge Repetition up to 24 / minute
- ☑ External trigger input
- ☑ Discharge and flash monitor
- ☑ Automatic Switching of 4Mohm parallel resistor

Benefits

International application – Specifically designed to meet and exceed the requirements of IEC, EN, and UL tests for Audio and Visual applications.

Comfortable to use – A light weight “pistol” type probe transfers the discharge into the test object. A convenient switch mounted on the probe, enables discharges.

Reduced operator workload – PS 1500 has all operator accessible controls on the main unit. These include a large LCD display and switches to change polarity, repetition rate and discharge voltage.

Applications

Safety testing of components used in Radio and Television applications. Including antenna coupling, line by-pass and across-the-line capacitors.

IEC/EN 60065 & UL 1414

■ Technical Specifications

Discharge Voltage	0.5 – 15kV
Discharge Mode	Manual and Automatic
Discharge Repetition	1 2,3,4,6,12 & 24 per minute
Discharge Counter	1 - 9999

Voltage increment	50 volt steps
Surge Polarity	Positive & Negative
Parallel Resistor	4 Mohms or 100Mohms
Supply voltage	80 – 264V 50/60Hz

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