

SCHAFFNER

NSG435

The Schaffner NSG 435 is an ergonomic, battery-operated ESD simulator (electrostatic discharge gun) designed for testing the electromagnetic compatibility (EMC) of electronic equipment. It is designed to fully meet standard IEC/EN 61000-4-2 requirements, offering both contact and air discharge capabilities in a lightweight handheld package.

SPECIFICATIONS

General

Interfaces	Optical interface (optional for PC remote control)
Display	2 x 16 character LCD display

Physical

Power Supply	Rechargeable battery pack or mains adapter (100 to 240 VAC, 50/60 Hz)
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	140 x 280 x 80 mm mm
Weight	1.2 kg

Simulation & Output Specifications

Air Discharge Voltage Range	200 V to 16.5 kV
Contact Discharge Voltage Range	200 V to 9 kV
Voltage Programming Resolution	100 V steps
Discharge Polarity	Positive / Negative
Energy Storage Capacitance	150 pF (standard network)
Discharge Resistance	330 Ω (standard network)
Pulse Repetition Rate	0.5, 1, 5, 10, 20, 25 Hz, or single pulse
Holding Time	> 5 seconds (typically > 30 seconds)
Operating Modes	Single, Repetitive, Continuous

Measurement & Readback

Discharge Counter	Up to 9999 discharges
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Environmental & Compliance

Operating Humidity Range	20% to 80% RH (non-condensing)
Simulated Standards Compliance	IEC/EN 61000-4-2

Power Supply

Battery Type	Rechargeable battery pack, 7.2 V
Battery Charging Time	approx. 3 hours
Mains Charger Supply Voltage	100 to 240 VAC (50/60 Hz)

Environmental

Operating Air Pressure Range	800 to 1060 hPa
Storage Temperature Range	-20 to +60 °C

Discharge Specifications

Pulse Rise Time	0.7 to 1 ns
Voltage Accuracy	±5% (at 18 to 28 °C)

Power & Battery

Battery Capacity	>6,000 discharges at 15 kV
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Operation

Preset Pulse Counter Range	1 to 9,999
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TECHNOLOGY

Electrostatic Discharge (ESD) Simulation

APPLICATIONS

Electromagnetic Compatibility (EMC) Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.