

SCHAFFNER

NSG432

The Schaffner NSG 432 is a classic, handheld electrostatic discharge (ESD) simulator designed for testing electronic equipment's electromagnetic compatibility (EMC) against ESD events. Capable of generating air discharges up to 25 kV, it features a modular design with interchangeable RC networks to comply with early and modern testing standards such as IEC 801-2 and IEC 1000-4-2.

SPECIFICATIONS

General

Display	3.5-digit LCD
---------	---------------

Physical

Power Supply	Rechargeable NiCd battery pack or AC power supply/charger
Weight	1.2 kg kg

Voltage & Discharge Parameters

Air Discharge Voltage Range	2 kV to 25 kV
Voltage Adjustment	Continuously adjustable via potentiometer
Polarity Selection	Positive or negative (switchable)
Discharge Modes	Single or repetitive discharge
Voltage Display Resolution	100 V (0.1 kV)

Waveform & Network Specifications

Standard RC Network	150 pF / 330 ohms (interchangeable)
Interchangeable RC Networks	Yes (modules available for different testing standards)

Power Supply & Battery

Battery Operating Capacity	> 10,000 discharges at 25 kV on a full charge
Battery Chemistry Type	Nickel-Cadmium (NiCd)

Standards & Regulatory Compliance

Regulatory Standards Compliance	IEC 801-2, IEC 1000-4-2, EN 61000-4-2
---------------------------------	---------------------------------------

Performance

Pulse repetition rate	Single, 1, 10, or 20 Hz
Pulse rise time	0.7 to 1 ns (compliant with IEC/EN 61000-4-2)
Charge holding time	> 5 s (voltage drop < 10%)

Accessories

Standard discharge tips	8 mm ball tip for air discharge, point tip for contact discharge
-------------------------	--

Environmental

Ambient pressure range	800 to 1060 hPa (operating)
------------------------	-----------------------------

Power

Mains Power Input	115/230 V AC, 50/60 Hz (via power supply/charger)
-------------------	---

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.