



Impulse Voltage Simulator

VSG 950 Series

- IEC 60950-1
- IEC 60065
- GB 8898

Features

- > 5.7 inches color touch screen
- > Max. impulse voltage 30 kV (customizable according to customer requirements)
- > Built-in fault alarm function in the control system
- > Provides leakage current breakdown protection and alarm for the EUT

Introduction

The VSG 950 series impulse voltage simulators comply with GB 8898, IEC 60950 and IEC 60065 standards.

The VSG 950 series voltage impulse simulators are designed for a wide range of applications, including withstand voltage testing of components, sockets, plugs, and cables; safety testing of audio, video, and similar electronic equipment; transient overvoltage testing of protective relays; and other related industry applications.

Application Areas



Technical Parameters

Test Voltage	0.5 kV ~ 12 kV, $\pm 3\%$ 1 kV ~ 20 kV, $\pm 3\%$ 3 kV ~ 30 kV, $\pm 3\%$ (Special voltage levels can be customized.)
Voltage Waveform	Front Time: $1.2 \mu\text{s} \pm 30\%$ (30% ~ 90%) * 1.67 Time to Half-Value: $50 \mu\text{s} \pm 20\%$ (0% ~ 50%)
Voltage Resolution	100 V
Capacitance	1 μF / 1 nF (refer to the selection guide)
Impedance	$38 \Omega \pm 10\%$ or $1,000 \Omega \pm 10\%$
Breakdown Alarm Current	300 mA ~ 1,200 mA
Polarity	+, -, alternative
Pulse Period	5 s ~ 99 s
Trigger Mode	Automatic, Manual, External Trigger
Counter	1 ~ 10,000
Note: According to IEC 60950, the 1 nF/1000 Ω impulse withstand voltage test has no requirements for front time or time to half-value.	

General Parameters

Display Screen	5.7" TFT touch screen
Working Voltage	AC 220 V, $\pm 10\%$, 50/60 Hz $\pm 5\%$
Fuse	6 A
Max. Power Consumption	200 W
Dimension	4U rack, 450 mm (W)*190 mm (H)*620 mm (D) 6U rack, 450 mm (W)*280 mm (H)*620 mm (D)
Weight	Approx. 30 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, User Manual, Test Cable, Grounding Wire, Fuse

Optional Accessories

1	PC Control Software	Model: Corelab > Support Windows 7/8/10; > Support Ethernet Interface; > Support sequence test, easy to operate, generate and export test report.	
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Selection Guide

VSG 950 ()

Max. Voltage	Main Capacitor	Output Impedance ^①
06: 6 kV	A: 1 nF	A: 1000 Ω
10: 10 kV	B: 1 μF	B: 40 Ω
12: 12 kV	C: Customized ^②	C: Customized ^②
20: 20 kV		
30: 30 kV		

Standard configuration of main capacitor and output impedance: AA,

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