

Impulse Voltage Simulator

VSG 3000



- IEC 60060-1
- IEC 60664-1
- IEC 61180
- IEC 60335-1
- IEC 61009-1
- GB/T 16927.1
- GB/T 17627
- GB 4706.1

Features

- > 5.7 inches color touch screen
- > Max. test voltage 30 kV
- > Support test sequence function
- > Output impedance 12 Ω , 38 Ω , 500 Ω
- > Equipped with an emergency stop button for immediate shutdown and enhanced operational safety

Introduction

The VSG 3000 Impulse Voltage Simulator is designed in compliance with IEC 61180-1 and IEC 60335-1 to evaluate the dielectric withstand capability of electrical equipment. It's capable of generating 1.2/50 μ s impulse voltage pulses from 1 kV to 30 kV, providing reliable and accurate testing performance. Featuring intuitive operation and a user-friendly interface, the VSG 3000 enables efficient and convenient testing.

Application Areas



Technical Parameters

Test Voltage	1 kV ~ 30 kV, $\pm 3\%$
Output Waveform (Open-circuit Voltage)	Front time: $1.2 \mu\text{s} \pm 30\%$ Duration time: $50 \mu\text{s} \pm 20\%$
Output Impedance	12Ω , 38Ω , 500Ω
Voltage Resolution	1 V
Polarity	+, -, + then -
Repetition Time	5 s ~ 99 s (Min. interval depends on test voltage)
Counter	1 ~ 10,000
Trigger Mode	Auto, manual, external trigger
Test Mode	Support test sequence function
Voltage Display	Displays charging voltage in real time
Safety Circuit	Press the emergency stop button for immediate shutdown

General Parameters

Working Voltage	AC 220 V, $\pm 10\%$, 50/60 Hz
Fuse	10 A
Max. Power Consumption	1,200 W
Communication Mode	Ethernet Lan (RJ45 interface)
Working Status Indication	LED indication and LCD display in front panel
Grounding Mode	Flat grounding wire
Dimension	22U rack, 450 mm(W)*1,600 mm(H)*900 mm(D); With alarm lamp: 600 mm(W)*1,600 mm(H)*900 mm(D);
Weight	Approx. 180 kg
Ambient Temperature	$15^{\circ}\text{C} \sim 35^{\circ}\text{C}$
Relative Humidity	$45\% \sim 75\%$
Atmospheric Pressure	$86 \text{ kPa} \sim 106 \text{ kPa}$

Standard Accessories

Power Cord, User Manual, Test Cables, Grounding Wire, Fuses, RF Cable

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