

Impulse Voltage Simulator

VSG 4000(500Ω/0.2μF)



- IEC 60060-1
- IEC 60664-1
- IEC 61009-1
- IEC 61180
- GB/T 16927.1
- GB/T 16935.1
- GB/T 16917.1
- GB/T 17627

Features

- > 5.7-inch color touchscreen front-panel operation
- > Max. pulse voltage 40 kV
- > Support real-time charging voltage display
- > Support peak voltage measurement and display
- > EUT breakdown leakage current alarm
- > Emergency stop button for quickly cutting off high-voltage charging circuit and output

Introduction

The VSG 4000(500Ω/0.2μF) Impulse Voltage Simulator complies with IEC 60060-1, IEC 60664-1, and IEC 61009-1 and is designed for insulation, voltage withstand, and surge testing of components and assemblies in impulse withstand testing applications.

Based on a third-generation control platform, it generates the 1.2/50 μs impulse voltage waveform, providing a maximum pulse voltage of 40 kV and an output impedance of 500 Ω.

Application Areas



Technical Parameters

Test Voltage	2 kV ~ 40 kV $\pm$ 10%
Open-circuit Voltage	Front time: 1.2 μ s $\pm$ 30%
Waveform	Duration: 50 μ s $\pm$ 20%
Output Impedance	500 Ω
Voltage Resolution	1 V
Output Polarity	Positive, negative and alternative
Pulse Period	9 s ~ 99 s (the minimum time depends on the test voltage)
Test Counter	1 ~ 10,000
Trigger Mode	Auto, manual, external trigger
Test Mode	Test sequence of test parameters
Voltage Display	Real-time display peak and charging voltage
Safe Circuit	Press emergency stop button for quickly cutting off high-voltage charging circuit and output
EUT Breakdown Leakage Current	100 mA ~ 1,200 mA

General Parameters

Display	5.7-inch TFT touchscreen
Working Power	AC 220 V $\pm$ 10%, 50 Hz /60 Hz
Fuse	6 A
Max. Power Consumption	1,200 W
Communication Mode	Ethernet LAN, RJ45
Working status indication	Front panel LED indication and LCD display
Grounding Method	Flat grounding wire
Dimension	22U rack, 600 (W)*1,600 (H)*900 (D) mm (incl. alarm indicator light)
Weight	Approx. 175 kg
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

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

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