



Impulse Voltage Simulator

VSG 255 Series

- IEC 60950-1
- IEC 60065
- GB 8898

Features

- > 5.7 inches color touch screen
- > Max. impulse voltage 12 kV
- > Built-in fault alarm function in the control system
- > Provides leakage current breakdown protection and alarm for the EUT

Introduction

The VSG 255 series impulse voltage simulators comply with the requirements of standards such as IEC 60255 and IEC 61036.

The VSG 255 series impulse voltage simulators are primarily designed for surge testing of the insulation, surface gaps, withstand voltage, and other electrical performance characteristics of components and units. The stored energy is fixed at 0.5 J at voltage levels of 0.5 kV, 1 kV, 1.5 kV, 2 kV, 2.5 kV, 3 kV, 4 kV, 5 kV, 6 kV, 8 kV, 10 kV, and 12 kV. The output impedance is 500 Ω .

VSG 255 Series Models: VSG 255-6 (0.5 kV ~ 6 kV), VSG 255-12 (6.0 kV ~ 12.0 kV).

Application Areas



Technical Parameters

VSG 255-6(0.5 kV ~ 6 kV)	
Test Voltage	0.5 kV, 1 kV, 1.5 kV, 2 kV, 2.5 kV, 3 kV, 4 kV, 5 kV, 6 kV $\pm 10\%$
Voltage Waveform	1.2 $\mu\text{s} \pm 30\%$, 50 $\mu\text{s} \pm 20\%$
Stored Energy	0.5 J $\pm 10\%$
Series Output Impedance	500 $\Omega \pm 5\%$
Polarity	+, -, alternative
Trigger Mode	Automatic, Manual, External Trigger
Counter	1 ~ 10,000
Failure Detection	Built-in
DUT Breakdown Detection	Built-in
VSG 255-12(6 kV ~ 12 kV)	
Test Voltage	6 kV, 8 kV, 10 kV, 12 kV $\pm 10\%$
Voltage Waveform	1.2 $\mu\text{s} \pm 30\%$, 50 $\mu\text{s} \pm 20\%$
Stored Energy	0.5 J $\pm 10\%$
Series Output Impedance	500 $\Omega \pm 5\%$
Polarity	+, -, alternative
Trigger Mode	Automatic, Manual, External Trigger
Counter	1 ~ 10,000
Failure Detection	Built-in
DUT Breakdown Detection	Built-in
VSG 255-12(0.5 kV ~ 12 kV)	
Test Voltage	0.5 kV, 1 kV, 1.5 kV, 2 kV, 2.5 kV, 3 kV, 4 kV, 5 kV, 6 kV, 8 kV, 10 kV, 12 kV $\pm 10\%$
Voltage Waveform	1.2 $\mu\text{s} \pm 30\%$, 50 $\mu\text{s} \pm 20\%$
Stored Energy	0.5 J $\pm 10\%$
Series Output Impedance	500 $\Omega \pm 5\%$
Polarity	+, -, alternative
Trigger Mode	Automatic, Manual, External Trigger
Counter	1 ~ 10,000
Failure Detection	Built-in
DUT Breakdown Detection	Built-in
Note: The VSG 255-12 (0.5 kV ~ 12 kV) consists of VSG 255-6 (0.5 kV ~ 6 kV), VSG 255-12 (6 kV ~ 12 kV) and EMS-22U (VSG 255 cabinet for 0.5 kV ~ 12 kV).	

General Parameters

Display Screen	5.7" TFT touch screen
Working Voltage	AC 220 V, $\pm 10\%$, 50/60 Hz $\pm 5\%$
Fuse	6 A
Communication Interface	Ethernet LAN, RJ45
Max. Power Consumption	200 W
Dimension	6U rack, 450 mm (W)*280 mm (H)*620 mm (D)
Weight	Approx. 20 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, Fault grounding Wire, Fuse

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