

Impulse Voltage Simulator

VSG 384B



- IEC 60384-14
- UL 60384-14

Features

- > 5.7 color touch screen
- > Max. test voltage up to 15 kV
- > Support test scheduling function with easy operation
- > Support automatic multi-range switching function

Introduction

The VSG 384B impulse voltage simulator is developed in accordance with IEC 60384-14 and UL 60384-14 standards. It can generate a 1.6/47 μ s pulse voltage waveform with a maximum output voltage of 15 kV.

The VSG 384B complies with impulse withstand voltage test requirements for fixed capacitors. It is equipped with 6 built-in test ranges and features automatic range switching.

Application Areas



Technical Parameters

Test Voltage	1 kV ~ 15 kV, ±10%	
Voltage Waveform (Cx=100 nF±2% Rs=7 Ω)	Front time: 1.6 μs (0/+50)%	
	Time to Half Value: 47 μs (0/+50)%	
Energy Storage Capacitor (CT)	20 μF	
Range	0.027 μF < Cx ≤ 0.039 μF	Rs=25 Ω ± 10%
	0.039 μF < Cx ≤ 0.056 μF	Rs=13 Ω ± 10%
	0.056 μF < Cx ≤ 0.082 μF	Rs=9 Ω ± 10%
	0.082 μF < Cx ≤ 0.12 μF	Rs=7 Ω ± 10%
	0.12 μF < Cx ≤ 0.18 μF	Rs=5 Ω ± 10%
	Cx > 0.18 μF	Rs=3 Ω ± 10%
Polarity	Positive, negative, alternative	
Repetition Time	5 s ~ 99 s (the shortest time depends on the test voltage)	
Counter	1 ~ 999	
Trigger Mode	Automatic, manual, external trigger	
Note: Since CT, RP, RS and CP are fixed, the circuit efficiency will decrease and the output voltage will decay significantly when the capacitance of the EUT (Cx) is much larger than 10 nF.		
Tr and Td are defined in accordance with IEC 60060-1.		

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V, $\pm 10\%$, 50 Hz/60 Hz
Power Consumption	Max. 1,500 W
Fuse	10 A
Communication Mode	Ethernet LAN
Working Status Indication	LED indication and LCD display on the front panel
External Trigger Input	BNC, 5 V TTL
CRO Trigger Input	BNC, 5 V TTL
Run Control Input	BNC, 5 V TTL
Grounding Method	Flat grounding wire
Dimension	35U rack, 600 (W)*1,850 (H)*800 (D) mm
Weight	Approx. 200 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75% RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Grounding Wire, Fuse, Calibration Capacitor
($C_x = 15 \text{ kV } 100 \text{ nF}$), User Manual

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