

# Impulse Voltage (Voltage Surge) Generator – VSG 255 Series

## Datasheet



### In Compliance with

- IEC/EN 60255-5
- IEC/EN 60255-27
- IEC 60747-5
- IEC 61180-1
- IEC 62052-11
- GB/T 14598.3
- GB/T 16916.1
- GB/T 17627.1

### Introduction

The impulse voltage generator VSG 255 series are designed according to IEC/EN 60255, IEC 61036 etc for impulse voltage / surges immunity tests on the performance of insulation, surface flashovers and voltage withstanding of the EUT (components or units). Under different voltage levels of 0.5 kV – 12 kV, the stored energy is fixed as 0.5 J, and the output impedance is 500  $\Omega$ .

### Features

- 5.7" color touch screen front panel;
- High capacity up to 12 kV, mini size;
- Built-in warning and control system;
- EUT breakdown alarming function;
- Superior quality, ideal substitute for imported similar products;

### Application Areas

- Telecom;
- IT;
- Pharmaceuticals;
- Broadcasting;
- Train & rail transit;
- Military;
- Avionics;
- New energy;

Technical Parameters		
Model	VSG 255-6	VSG 255-12
Test Voltage	0.5 kV, 1 kV, 1.5 kV, 2.5 kV, 4 kV, 5 kV, 6 kV ( $\pm 10\%$ )	6 kV, 8 kV, 10 kV, 12 kV ( $\pm 10\%$ )
Waveform	1.2 $\mu\text{s}$ $\pm 30\%$ , 50 $\mu\text{s}$ $\pm 20\%$	1.2 $\mu\text{s}$ $\pm 30\%$ , 50 $\mu\text{s}$ $\pm 20\%$
Stored Energy	0.5 J $\pm 10\%$	0.5 J $\pm 10\%$
Cascade Output Impedance	500 $\Omega$ $\pm 5\%$	500 $\Omega$ $\pm 5\%$
Output Polarity	+ / -	+ / -
Triggering Mode	External / automatic / manual	External / automatic / manual
No. Of Pulses	1 – 10,000	1 – 10,000
Error Detection	Built-in	Built-in
EUT Breakdown Detection	Built-in	Built-in

General Parameters	
Display	5.7" TFT touch screen
Power supply	AC 110 V / 220 V, 50 / 60 Hz
Fuse	6 A
Max Power	200 W
Operating Temp.	15°C - 35°C
Operating Humidity	45% - 75%
Operating Air Pressure	86 kPa – 106 kPa
Dimension	19", 6 U
Weight	Approx 20 kg

Standard Accessories	
Testing Wire	1 pc
Power Supply Cable	1 pc
Fuse	1 pc
Quality Guarantee	1 pc
Factory Inspection Report	1 pc
User Manual	1 pc



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