



Combination Wave Lightning Surge Simulator **CWS 20G**

- IEC/EN 61000-4-5
- IEC 60950
- IEC 62305-4
- IEC 61643-1
- ITU-T K17
- ITU-T K21

Features

- > Support multiple pulse voltage waveforms generation
- > 5.7-inch color touchscreen
- > Test scheduling function, easy operation
- > Ethernet, RJ45 Interface

Introduction

The CWS 20G Combination Lightning Surge Generator is based on the company's third-generation control platform. It is designed according to the requirements of IEC/EN 61000-4-5, IEC 60950, IEC 62305-4, IEC 61643-1, ITU-T K17, ITU-T K21. It is a multi-waveform lightning surge generator developed according to customer testing requirements.

The CWS 20G integrates multiple surge waveforms, including 1.2/50 μ s and 8/20 μ s combination wave, 1.2/50 μ s voltage wave, 5/50 μ s voltage wave, 10/100 μ s voltage wave, 10/200 μ s voltage wave, 10/350 μ s voltage wave, and 10/700 μ s and 5/320 μ s combination wave. It is mainly used for impulse voltage testing of surge protective device (SPD) varistors, integrated circuits, communication equipment, and other products.

Application Areas



Technical Parameters

1.2/50 μ s, 8/20 μ s Combination Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	1.2 μ s $\pm 30\%$
Voltage Wave Pulse Duration	50 μ s $\pm 20\%$
Short Circuit Current	2.5 A ~ 100 A ($\pm 5\%$ ± 0.5 A)
Impedance	2 Ω
Current Wave Front Time	8 μ s $\pm 20\%$
Current Wave Duration	20 μ s $\pm 20\%$
Standard Compliance	IEC 60950
1.2/50 μ s Voltage Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	1.2 μ s $\pm 30\%$
Voltage Wave Pulse Duration	50 μ s $\pm 20\%$
Impedance	40 Ω
Standard Compliance	IEC 60950, ITU-T K21
5/50 μ s Voltage Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	5 μ s $\pm 30\%$
Voltage Wave Pulse Duration	50 μ s $\pm 20\%$
Impedance	40 Ω
Standard Compliance	Customized
10/100 μ s Voltage Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	10 μ s $\pm 20\%$
Voltage Wave Pulse Duration	100 μ s $\pm 20\%$
Impedance	40 Ω
Standard Compliance	Customized
10/200 μ s Voltage Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	10 μ s $\pm 20\%$
Voltage Wave Pulse Duration	200 μ s $\pm 20\%$
Impedance	40 Ω
Standard Compliance	Customized
10/350 μ s Voltage Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	10 μ s $\pm 20\%$
Voltage Wave Pulse Duration	350 μ s $\pm 20\%$
Impedance	40 Ω
Standard Compliance	IEC 62305-4, IEC 61643-1

Technical Parameters

10/700 μ s, 5/320 μ s Combination Wave	
Open Circuit Voltage	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Voltage Wave Front Time	10 μ s $\pm 30\%$
Voltage Wave Pulse Duration	700 μ s $\pm 20\%$
Short Circuit Current	0.125 A ~ 5 A ($\pm 5\%$ ± 0.5 A)
Impedance	40 Ω
Current Wave Front Time	5 μ s $\pm 20\%$
Current Wave Duration	320 μ s $\pm 20\%$
Standard Compliance	IEC 60950, ITU-T K17

General Parameters

Output Polarity	+, -
Working Power	AC 220 V, 50 Hz
Pulse Period	1 s ~ 99 s
Counter	1 ~ 999
Trigger Mode	Auto, manual; Single trigger
Grounding Method	Flat grounding wire
Dimension	4U rack, 450 mm * 190 mm * 620 mm
Weight	Approx. 19 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75% RH (no condensation)

Standard Accessories

Three-core Power Cord, User Manual, Test Cables, Grounding Wire, Fuse, Coaxial Cable

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