

Combination Wave Surge Generator CWS 20G

Datasheet



In Compliance with

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

Introduction

The CWS 20G is designed according to IEC/EN 61000-4-5, IEC 60950, IEC 62305-4, IEC 61643-1, ITU-T K17, ITU-T K21 and customer's requirement. It is capable of generating multiple 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, 5/320 μ s combination wave.

It is mainly used in inrush voltage test performed on arrester resistor, integrated chip and communication equipment etc.

Features

- > 5.7" color touch screen front panel operation;
- > Generating multiple pulse waveforms;
- > Test sequencing is available and easy operation;
- > With Ethernet and RJ45 interface;

Application Areas

- > Communication
- > Telecom
- > Medical
- > Broadcasting
- > Railway
- > IT
- > Military
- > Avionics
- > New energy power

1.2/50 μ s, 8/20 μ s Combination Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	1.2 μ s $\pm 30\%$
Time to half-value of Voltage Wave	50 μ s $\pm 20\%$
Current (Short-circuit)	2.5 A ~ 100 A ($\pm 5\%$ ± 0.5 A)
Impedance	2 Ω
Front Time of Current Wave	8 μ s $\pm 20\%$
Time to half-value of Current Wave	20 μ s $\pm 20\%$
Standard	IEC 61000-4-5

1.2/50 μ s Voltage Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	1.2 μ s $\pm 30\%$
Time to half-value of Voltage Wave	50 μ s $\pm 20\%$
Impedance	40 Ω
Standard	IEC 60950, ITU-T K21

5/50 μ s Voltage Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	5 μ s $\pm 30\%$
Time to half-value of Voltage Wave	50 μ s $\pm 20\%$
Impedance	40 Ω
Standard	Customized

10/100 μ s Voltage Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	10 μ s $\pm 20\%$
Time to half-value of Voltage Wave	100 μ s $\pm 20\%$
Impedance	40 Ω
Standard	Customized

10/200 μ s Voltage Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	10 μ s $\pm 20\%$
Time to half-value of Voltage Wave	200 μ s $\pm 20\%$
Impedance	40 Ω
Customized	Customized

10/350 μ s Voltage Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	10 μ s $\pm 20\%$
Time to half-value of Voltage Wave	350 μ s $\pm 20\%$
Impedance	40 Ω
Standard	IEC 62305-4, IEC 61643-1

10/700 μ s, 5/320 μ s Combination Wave	
Voltage (Open-circuit)	5 V ~ 200 V ($\pm 5\%$ ± 1 V)
Front Time of Voltage Wave	10 μ s $\pm 20\%$
Time to half-value of Voltage Wave	700 μ s $\pm 20\%$
Impedance	40 Ω
Standard	IEC 60950, ITU-T K17

General Parameters	
Polarity	Positive, Negative
Pulse Cycle	1 s ~ 99 s
Counter	1 ~ 999
Working Power	AC 220 V 50 Hz
Trigger Mode	Auto/Manual; Single trigger is available
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Relative Humidity	45% ~ 75% RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa
Ground Mode	Using flat ground line
Dimension	19"/4U
Weight	Approx. 19 kg

Accessories	
Fuse, User manual, Test line, three-core power line, ground line, Coaxial line	



SUZHOU 3CTEST ELECTRONIC CO., LTD.

Add.: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

Tel: +86 (0)512 6807 7192 Fax: +86-512-68079795

Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn

www.3c-test.com