



Low Voltage Combination Wave Lightning Surge Simulator

CWS 120CT

- IEC/EN 61000-4-5
- GB/T 17626.5

Features

- > 5.7-inch color touch screen front panel operation
- > Test voltage 1 V ~ 1,200 V
- > Standard source output impedance: 2 Ω , 12 Ω , 42 Ω
- > Communication wave source output impedance: 15 Ω , 40 Ω
- > Real-time display for peak voltage and peak current
- > Built-in four coupling/decoupling networks
- > EUT load capacity: 40 V DC, 10 A
- > Test sequence function
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports

Introduction

The CWS 120CT is specially designed for simulating low voltage surge pulse disturbances phenomenon, which can be used in surge protection device (TVS tube, TSPDs, SIDAC, surge suppressor and wafer or package level) immunity test. Its output voltage can be adjustable from 1 V to 1,200 V, which totally meet the test requirement of IEC/EN 61000-4-5 and GB/T 17626.5.

The product adopts 3-rd generation control platform and features high system integration, intelligent control and easy operation.

Application Areas



Technical Parameters

1.2/50 μs; 8/20 μs	
Test Voltage	1 V ~ 1,200 V, $\pm 10\%$
Voltage Waveform	Rise Time: 1.2 μ s $\pm 30\%$ Time to half value: 50 μ s $\pm 20\%$
Test Current	0.5 A ~ 600 A $\pm 10\%$ (2 Ω)
Current Waveform	Rise Time: 8 μ s $\pm 20\%$ Time to half value: 20 μ s $\pm 20\%$
Source Impedance	2 Ω , 12 Ω , 42 Ω
Polarity	+, -, +/-
Repetition Time	1 s ~ 9,999 s
Counter	1 ~ 9,999
Trigger Mode	Manual, Auto, External Trigger
Test Mode	Support test sequence function
Coupling/Decoupling Modes	C/L, D/L, C/D, D/D (C: Capacitor, L: Inductor, D: Diode)
EUT Load Capacity	40 V DC, 10 A
Display	Peak voltage and peak current display function

10/700 μs; 5/320 μs	
Test Voltage	1 V ~ 1,200 V, $\pm 10\%$
Voltage Waveform	Rise Time: 10 μ s $\pm 30\%$ Time to half value: 700 μ s $\pm 20\%$
Test Current	0.025 A ~ 30 A $\pm 10\%$
Current Waveform	Rise Time: 5 μ s $\pm 20\%$ Time to half value: 320 μ s $\pm 20\%$
Source Impedance	15 Ω , 40 Ω
Polarity	+, -, +/-
Repetition Time	1 s ~ 9,999 s
Counter	1 ~ 9,999
Trigger Mode	Manual, Auto, External Trigger
Test Mode	Support test sequence function

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 110 V/220 V, $\pm 10\%$, 50/60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Mode	Ethernet Lan
Working Status Indication	LED indication and LCD display in front panel
Failure Detection	LCD display in front panel and stop work when failure occurs
Dimension	4U rack, 450 mm * 190 mm * 620 mm
Weight	Approx. 25 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Power Cord, User Manual, Test Cables, Flat Grounding Wire, Fuse

Optional Accessories

1	PC Control Software	Model: Corelab Support Windows 7/8/10 /11; support Ethernet Interface; support sequence test, easy to operate, generate and export test report.	
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