



Low Voltage Combination Wave Lightning Surge Simulator **CWS 120**

■ IEC/EN 61000-4-5

■ GB/T 17626.5

Features

- > 5.7-inch color touch screen front panel operation
- > Output voltage 1 V ~ 1,200 V
- > Source impedance 2 Ω , 12 Ω , 42 Ω
- > Built-in four types of coupling/decoupling network
- > EUT load capacity: 40V DC 10 A
- > Real-time display for output peak voltage and peak current
- > Support test sequence function
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports
- > Support PC control software

Introduction

The CWS 120 series 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

In Compliance with	IEC 61000-4-5
Test Voltage	1 V ~ 1,200 V, $\pm 10\%$
Voltage Waveform	Rise time: $1.2 \mu\text{s} \pm 30\%$ Time to half value: $50 \mu\text{s} \pm 20\%$
Test Current	0.5 A ~ 600 A $\pm 10\%$ (2 Ω)
Current Waveform	Rise time: $8 \mu\text{s} \pm 20\%$ Time to half value: $20 \mu\text{s} \pm 20\%$
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 Method	C/L, D/L, C/D, D/D (C: capacitor, L: inductor, D: diode)
EUT Load Capacity	DC 40 V, 10 A
Display	Display of peak voltage and peak current

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 (RJ45 interface)
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	19 inches/4U rack, 450 mm * 192 mm * 620 mm
Weight	Approx. 20 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 Cable, Fuse

Optional Accessories

1	Wide-band Current Probe	Model: CM 0103M 5 kA, 0.1 V / A	
2	PC Control Software	Model: Corelab Support Windows 7/8/10 /11; support Ethernet Interface; support sequence test, easy to operate, generate & export test report.	

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