

# Low Voltage Combination Wave Lightning Surge Simulator

## CWS 120



### In compliance with

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

### Introduction

The CWS 120 is designed specially 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 1200 V, which totally meet the test requirement of IEC/EN 61000-4-5 and GB/T 17626.5.

The product is based on 3-rd generation control platform, which features highly system integration, intelligence control, easy operation and saving test time.

### Features

- > 5.7-inch colorful touch screen;
- > As per IEC/EN 61000-4-5 and GB/T 17626.5;
- > Output voltage from 1 V to 1200 V;
- > Source impedance 2 ohm, 12 ohm, 42 ohm;
- > Built-in 4 coupling/decoupling network;
- > EUT load capacity for 40 VDC 10 A;
- > The peak voltage and peak current of output surge are displayed on screen in real-time;
- > With test sequence function;
- > LAN Ethernet Interface for PC remote control;
- > PC control software corelab;

### Application Areas

- |                 |                          |
|-----------------|--------------------------|
| > Communication | > Information technology |
| > Telecom       | > Military               |
| > Medical       | > Aviation               |
| > Radio and TV  | > New energy power       |
| > Railway       | > New energy vehicle     |

General Parameters	
Display Screen	5.7-inch TFT touch screen
Working Power	AC 110 V/220 V ( $\pm 10\%$ ), 50 Hz /60 Hz (Default in mainland China: 220 V)
Fuse	6 A
Max. Power	200 W
Communication Mode	Ethernet LAN、RJ45
Failure Detection	The failure information will be displayed on LCD in front panel when failure occurs and interrupt the working of instrument.
Working Status Indication	LED indication and LCD display on front panel
Dimension(W*H*D)	19-inch/ 4U (450*192*610 mm)
Weight	Approx. 20 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories
Generator, Power line, Test lines, Ground line, User manual , Coaxial cable, Fuses

Technical Parameters	
Combination Wave	
Test Voltage	1 V ~ 1200 V ( $\pm 10\%$ )
Voltage Waveform	Rise time : 1.2 $\mu\text{s} \pm 30\%$ , Pulse width: 50 $\mu\text{s} \pm 20\%$
Test Current	0.5 A-600 A $\pm 10\%$ (2 ohm)
Current Waveform	Rise time : 8 $\mu\text{s} \pm 20\%$ , Pulse width: 20 $\mu\text{s} \pm 20\%$
Source Impedance	2 ohm, 12 ohm, 42 ohm
Polarity	Positive, negative, alternative
Pulse Repetition	1 s ~ 9999 s
Counter	1 ~ 9999
Trigger Mode	Manual, Auto, External
Test mode	Parameter scheduling setting
Coupling/decoupling mode	C/L , D/L, C/D, D/D C : capacitor; L : inductance; D : diode
EUT load capacitor	40 VDC 10 A
Display	Peak voltage and Peak Current display

Optional Accessories
PC software: Corelab With PC installed WIN 7, WIN 8 and WIN 10, it can be easily operated to make the measurement, based on the customized test program. It can identify any device with automatic configuration. It can easily generate test reports.



## **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](mailto:globalsales@3ctest.cn)      Service Email: [service@3ctest.cn](mailto:service@3ctest.cn)

[www.3c-test.com](http://www.3c-test.com)

3ctest is always striving for product innovation and quality improvement.

Product appearance and technical specifications are subject to change without further notice.

© 3ctest