

## Low Voltage Combination Wave Lightning Surge Simulator CWS 3G



### In compliance with

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

### Introduction

The CWS 3G 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 30 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;
- > Output voltage from 1 V to 30 V, 0.1 V step;
- > Source impedance 2 ohm;
- > Built-in peak value measurement function, oscilloscope can be connected for observing waveform;
- > The peak voltage and peak current of output surge are displayed on screen in real-time;
- > With test sequence function;
- > Ethernet, RJ45 port for PC remote control, print and documentation;

### Application Areas

- |                 |                          |
|-----------------|--------------------------|
| > Communication | > Information technology |
| > Telecom       | > Military               |
| > Medical       | > Aviation               |
| > Radio and TV  | > New energy power       |
| > Railway       | > Electric 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/ 4 U<br>(450 mm*192 mm*610 mm)   |
| Weight                    | 17 kg  |
| Ambient Temperature       | 15 °C ~ 35 °C  |
| Relative Humidity         | 45% ~ 75%  |
| Atmospheric Pressure      | 86 kPa ~ 106 kPa   |

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

| Technical Parameters |   |
|----------------------|---|
| Test Voltage         | 1 V ~ 30 V ( $\pm 10\%$ )   |
| Voltage Waveform     | Rise time :1.2 $\mu\text{s} \pm 30\%$ ,<br>Pulse width:50 $\mu\text{s} \pm 20\%$  |
| Test Current         | 0.5 A ~ 15 A ( $\pm 10\%$ )   |
| Current Waveform     | Rise time : 8 $\mu\text{s} \pm 20\%$ ,<br>Pulse width : 20 $\mu\text{s} \pm 20\%$ |
| Source Impedance     | 2 ohm   |
| Polarity             | Positive, negative, alternative   |
| Pulse Repetition     | 1 s ~ 9999 s  |
| Counter              | 1 ~ 9999  |
| Trigger Mode         | Manual, Auto, External  |
| Test mode            | Test parameter scheduling setting   |

| Optional Accessories  |
|---|
| External coupling/decoupling network SPN series:<br>Need to be customized;  |
| Broadband current monitoring pliers :<br>CM 0220M Attenuation : 0.01 V/A;<br>CM 0103M Attenuation : 0.01 V/A;   |
| PC software: Corelab<br>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. |



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