

Combination Wave Lightning Surge Simulator

CWS 600T

Datasheet



In compliance with

- > IEC 61000-4-5
- > IEC 61850-3
- > IEC 61326
- > EN/IEC 60255-22-5

Introduction

The combination wave lightning surge simulator CWS 600T is designed to conduct surge test onto communication port, which is capable of generating 10/700 μ s, 5/320 μ s combination wave with maximum test voltage up to 6.0 kV;

Features

- > 5.7 inches color touch screen on front panel;
- > Maximum test voltage up to 6.0 kV;
- > Telecom wave 10/700 μ s;
- > Error alarm notification;
- > LAN Ethernet Interface for PC remote control;

Application Areas

- | | |
|-----------------|-------------------------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New Energy Electrical Power |
| > Railway | > New Energy Vehicles |

General Parameters	
Display Screen	5.7" 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
Memory Space	Infinite (PC)
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
EUT Power Injection Line	$\phi 4$ mm banana plug
Detection Output Mode	Standard 1m coaxial cable
HV Output Mode	4 mm ² banana plug (HV line)
Dimension	19"/ 6U
Weight	Approx. 30 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Technical Parameters	
Combination Wave	
Test Voltage	0.3 kV ~ 6 kV ($\pm 10\%$)
Telecom Wave	
Test Current	7.5 A-150/200 A ($\pm 10\%$)
Voltage Waveform	Rise time :10 $\mu\text{s} \pm 30\%$, time to half value:700 $\mu\text{s} \pm 20\%$
Current Waveform	Rise time : 5 $\mu\text{s} \pm 20\%$, time to half value: 320 $\mu\text{s} \pm 20\%$
Source Impedance	15 ohm /40 ohm (Switched automatically)
Polarity	Positive, negative, alternative
Pulse Repetition	6 s - 180 s (The shortest time depends on test voltage)
Counter	1-999
Trigger Mode	Manual, Auto, External Trigger
CDN	External CDN model No. (options): CDN-405AF8 CDN-405T8 CDN-405T8A1
Output voltage up to 8 kV and 10 kV are available for customization.	



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