

Fully Automatic Multifunctional Compact Wave Simulator

– CWS 1500

Datasheet



In Compliance with

- > IEC 61000-4-5
- > ITU K.21
- > ITU K.44
- > GB/T 16927.1
- > GB/T 17626.5

Introduction

The CWS series fully automatic multi-functional surge immunity testing systems are designed based on 3ctest's latest third-generation intelligent programmable testing platform. They feature application of programmable controller and computer technology, simplified system structure, greatly improved system reliability; color touch screen, friendly human-machine interface; easy test setting, one-key automatic testing. The product has the advantage of highly integration, control intelligentization, user-friendly operation and saving testing time.

Features

- > 5.7" color touch screen front panel;
- > Automatic fault detection, audible-visual alarms;
- > Wide range output, voltage up to 500 V;
- > LAN communication interface for remote control;
- > Automatic CDNs are available optionally;
- > Current and voltage two-way peak detection;
- > 19" standard rack;

Applications

- | | |
|-----------------|-----------------------|
| > Communication | > Rail Transit |
| > Telecom | > Military |
| > Health Care | > Avionics |
| > Broadcasting | > Solar Energy |
| > IT | > Electrical Vehicles |

Combination Waveform (1.2/50 μs & 8/20 μs)	
Open-circuit voltage	
Peak Voltage	500 V - 15 kV ($\pm 10\%$)
Front Time	1.2 μ s ($\pm 30\%$)
Duration Time	50 μ s ($\pm 20\%$)
Short-Circuit Current	
Peak Current	250 A - 7.5 kA ($\pm 10\%$)
Rise Time	8 μ s ($\pm 20\%$)
Duration Time	20 μ s ($\pm 20\%$)
Virtual Impedance	2 $\Omega \pm 0.25 \Omega$
Output Polarity	Positive/Negative
CDNs (Built-In/External)	Single/three-phase fully automatic CDNs are available optionally.

Voltage Waveform (1.2/50 μs) (Optional)	
Output Voltage	500 V - 15 kV ($\pm 10\%$)
Output Impedance	500 $\Omega \pm 10\%$
Output Polarity	Positive/Negative or positive first and negative second
Output Voltage Waveform	1.2 μ s $\pm 30\%$, 50 μ s $\pm 20\%$

Communication Waveform (10/700 μs, 5/320 μs) (Optional)	
Output Voltage	500 V – 10 kV $\pm 10\%$
Output Polarity	Positive/Negative
Output Voltage Waveform	10/700 μ s ($\pm 20\%$)
Output Current Waveform	5/320 μ s ($\pm 20\%$)
Output Impedance	15 Ω , 40 Ω (25 Ω +15 Ω)
Output Short-circuit Current	12.5 A - 250 A ($\pm 10\%$)
CDNs (External)	2-way 4-line and 4-way 8-line CDNs are available optionally.

General Parameters	
Operating power supply	AC 110 V/220 V ($\pm 10\%$), 50/60 Hz (by default AC 220 V)
Ambient Temperature	15 $^{\circ}$ C - 35 $^{\circ}$ C
Relative Humidity	45% - 75%
Atmospheric Pressure	86 kPa - 106 kPa
Grounded Resistance	$\leq 0.5 \Omega$
Dimension	19" /35 U (600 \times 800 \times 1,850 mm)
Weight	Approx. 200 kg

Optional Accessories		
Oscilloscope	MDO 3012	Tektronix
Wide-band Current Monitor	CM 0220M	
Voltage Probe	P 6015A	Tektronix
Control Software	Corelab	Supports Win Xp/7
Measurement Software	MAS 3000	fiber optics communication
CDNs	SPN 4816SM15	Single-phase, 480 V, 16 A, Manual switching, 15 kV



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 Service Email: service@3ctest.cn

www.3c-test.com