

Combination Wave Surge Immunity Test Simulator

CWS

1000CM, CWS 1000MM

Datasheet



In Compliance with

- > IEC 61000-4-5
- > IEC 61643-1
- > GB/T 17626.5
- > GB/T 16927.1
- > ITU-T K.21
- > ITU-T K.44

Introduction

CWS 1000CM/MM is designed to perform combination wave surge immunity tests according to IEC 61000-4-5, capable of generating waveforms of 1.2/50 μ s, 8/20 μ s, 10/700 μ s, 5/320 μ s, connected to EUT via external CDN. The equipment meets the relevant requirements of CE, CCC etc.

Features

- > 5.7" color touch screen front panel
- > Mini size, high capacity (up to 10 kV)
- > Capable of generating 1.2/50 μ s, 8/20 μ s, 10/700 μ s, 5/320 μ s waveforms as per IEC 61000-4-5
- > LCD display of surge voltage and current monitoring
- > Easy to operate with test sequencing and scheduling
- > External automatic coupling / decoupling network

Application Areas

- > IT
- > Telecom
- > Medical
- > TV broadcasting
- > Railway
- > Military
- > Avionics
- > New energy
- > New energy automotive

Technical Parameters-1.2/50 μ s, 8/20 μ s	
Test Voltage	0.5 kV –10.0 kV \pm 10%
Voltage Tr	1.2 μ s \pm 30%
Voltage Td	50 μ s \pm 20%
Test Current	0.25 kA - 5.0 kA \pm 10% (2 ohm)
Current Tr	8 μ s \pm 20%
Current Td	20 μ s \pm 20%
Output Impedance	2 ohm or 12 ohm
Test Interval	6 s – 99 s (the shortest time subject to test voltage)
Measuring Of Peak Voltage	Via BNC on Front Panel: 1000 V:1 V; Results shown on LCD;
Measuring Of Peak Current	Via BNC on Front Panel: 100A:1V; Results shown on LCD;
No. Of Tests	1 – 999
Triggering Mode	Automatic, manual, or external triggering
Test Method	As per standard test requirements

Technical Parameters-10/700 μ s, 5/320 μ s	
Test Voltage	0.5 kV –10.0 kV \pm 10%
Voltage Tr	10 μ s \pm 20%
Voltage Td	700 μ s \pm 20%
Current Tr	5 μ s \pm 20%
Current Td	320 μ s \pm 20%
Output Impedance	15ohm or 40ohm optional
Test Interval	11 s - 99 s (the shortest time subject to test voltage)
Measuring Of Peak Voltage	Via BNC on Front Panel: 1000V:1V; Results shown on LCD;
Measuring Of Peak Current	Via BNC on Front Panel: 100 A:1 V; Results shown on LCD;
No. Of Tests	1–999
Triggering Mode	Automatic, manual, or external triggering
Test Method	As per standard test requirements

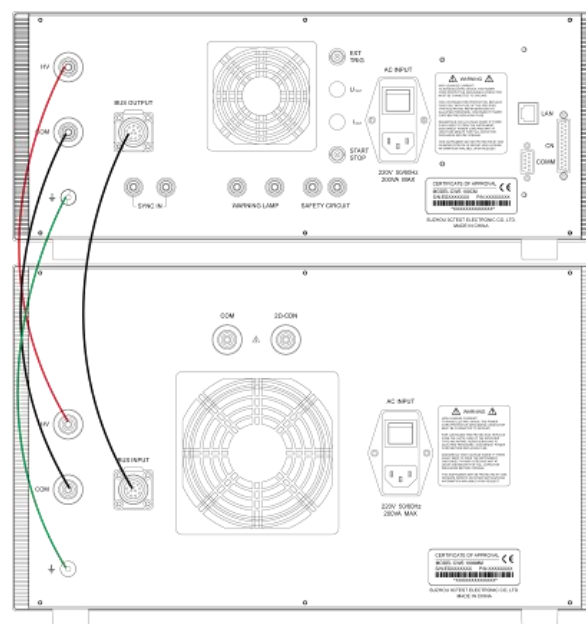
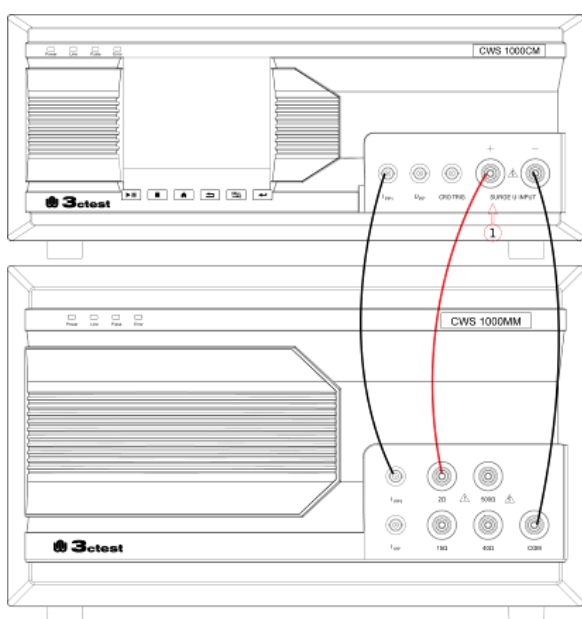
Technical Parameters - 1.2/50 μ s	
Test Voltage	0.5 kV–10.0 kV \pm 10%
Voltage Tr	1.2 μ s \pm 30%
Voltage Td	50 μ s \pm 20%
Output Impedance	500 ohm
Test Interval	5 s – 99 s (the shortest time subject to test voltage)
Measuring Of Peak Voltage	Via BNC on Front Panel: 1000 V : 1 V; Results shown on LCD;
No. Of Tests	1–999
Triggering Mode	Automatic, manual, or external triggering
Test Method	As per standard test requirements

General Parameters	
Display	5.7" TFT color touch screen
Operating Voltage	AC 110 V/220 V \pm 10, 50/60 Hz
Fuse	6 A
Capacity	200 W
Storage Space	Unlimited (PC)
Communication Method	Ethernet, RJ45
Safety Circuit	Not operating if the open safety circuit is not closed
Error Detection	Errors will be shown on LCD while operation will be stopped.
Output Measuring Method	Via 1 m co-axial cable
Dimension (W x H x D)	19", 4U (CWS 1000CM) + 6U (CWS 1000MM)
Weight	About 40 Kg
Operating Temp.	15 $^{\circ}$ C – 35 $^{\circ}$ C
Operating Humidity	45% - 75%
Operating Air Pressure	86 kPa - 106 kPa

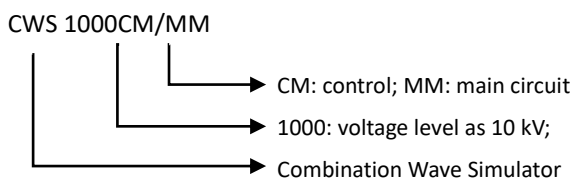
Standard Accessories	
Testing wire	1 pc
Power supply cable	1 pc
Fuse	1 pc
Factory Inspection Report	1 pc
User Manual	1 pc

Optional Accessories
1. CDN for Surge immunity tests as per IEC 61000-4-5: SPN series: SPN 2216S10 (10 kV external single-phase); SPN 3816S10 (10 kV external single-phase); SPN 3816T10 (10 kV external 3-phase) SPN 3832T10 (10 kV external 3-phase)
2. CDN for signal lines as per IEC 61000-4-5: CDN 405 series (10 kV or to be customized)
3. HV differential probe VCF-80: Test voltage 8 kV, attenuation: 1000:1
4. Wide-band Current Monitor CM 0220M

Equipment Connection Diagram:



Naming Rules:





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