

Combination wave surge simulator

CWS 600/800/1000



As per

- > IEC 61000-4-5
- > IEC 61000-4-9
- > IEC 60255-22-5
- > IEC 61850-3
- > EN 61000-4-5
- > EN 61000-4-9
- > IEC/EN 61326
- > GB/T 17626.5
- > UL1449
- > ITU-T K.12
- > ITU-T K.45
- > ITU-T K.20

Description

Surge pulses occur due to direct or indirect lightning strokes to an external circuit. This leads to current or electromagnetic fields causing high voltage or current transients. Another source for surge pulsed is switching transients originating from switching disturbances and system faults. Nearly every electrical and electronic device may suffer from such surge pulses.

CWS600 is the most intelligent immunity test instrument which fully complies with CE and CCC relative standards. with external CDN and optional accessories, it can conduct for three-phase DUT and also pulsed magnetic field immunity test.

Features

- > 5.7 inch color touch screen .
- > surge failure detection
- > surge voltage up to 6kV, surge current up to 3kA
- > Test programmable function with easy operation
- > surge voltage and current monitoring and LCD display
- > controlled external three-phase CDN
- > external magnetic field coil as per IEC61000-4-9 test
- > Ethernet, RJ45 for PC remote control, print ans documentation
- > internal automatic switchable single phase CDN 250V AC/16A; 220V DC-1/12A

Industries

- > Communication
- > Telecom
- > Medical
- > Broadcast
- > Railway
- > Technology
- > Military
- > Avionics
- > New energy

General data	
Display screen	5.7 inch TFT color touch screen
Power supply	AC 110V/220V, ±10%, 50/60Hz, ±5% (default AC 220V, 50Hz)
Fuse	6A
Max. Power consumption	200W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ45
Working indicator	LED, LCD front panel display
Grounding connection	Flat ground line
EUT power injection	4mm ² banana plug
Output mode	Standard 1m coaxial cable
Size	19 inch/6U
Weight	Approx. 30Kg
Temperature	15–35°C
Humidity	45%–75%
Air pressure	86kPa–106kPa

Surge test as per IEC 61000-4-5	
Surge module	
Test voltage	0.2kV-6kV ±10%
Voltage waveform	Front time: 1.2μs±30% Time to half value: 50μs±20%
Test current	0.1kA-3kA ±10%
Current waveform	Front time: 8μs±20% Time to half value: 20μs±20%
Source output impedance	2 ohm
Output polarity	+/-/alternative
Surge voltage and current peak detection	Surge voltage : 1000V:1V Surge current : 500A:1V 3 digits display Optional IEC standard way or custom
CDN	Built-in single-phase three-wire coupling CDN AC 250V 16A DC 110V 12A
脉冲周期	6s-99s (Depends on the shortest test voltage)
Number of test	1-999
Trigger mode	Automatic, manual and external
Synchronization	0° - 360°, 1° step or random

Pulse magnetic field test as per IEC 61000-4-9	
PFM module	
Standard	IEC/EN 61000-4-9、GB/T 17626.9
Output magnetic field	100A/m-1200A/m
Output current	100A-2000A
Waveform	Rise time: 6.4 μ s \pm 30%
	Duration: 16 μ s \pm 30%
Synchronization	0° - 360°, 1° step or random
Polarity	+/-/alternative
Trigger mode	Automatic, manual and external
Pulse cycle	5-99s (shortest depends on test voltage)
Number of test	1-999
Coil size	1000 x1000mm
Coil shape	Rectangle or others
Coil turn	Single turn
Coil type	TCXS 111

Basic equipments
Simulator, user manual, factory test report, test cable, power cord, two fuses

Optional accessories
1. Surge CDN SPN series as per IEC61000-4-5 SPN 3816T/32T (three-phase 380V 16A/32A) SPN 38100T (three-phase 380V 100A) SPN 6916T/32T (three-phase 690V 16A/32A)
2. Signal line/ communication line CDN as per IEC61000-4-5 (A) 4-line communication line CDN (B) 8-line communication line CDN
3. Pulsed magnetic field converter PMC1200 as per IEC6100-4-9
4. Magnetic field coil TCXS111 single-turn coil TCXS113 three-turn coil 1MX1M IEC61000-4-8
5. HV differential probe, model VCF-80 test voltage:8KV attenuation ratio: 1000: 1
6. HV current sensor model: TR410
7. PC control software EMSLab With PC installed WIN XP and WIN7, 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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