

Combination wave surge simulator

CWS x00G/SPN 38xxT



As per	
>	IEC 61000-4-5
>	IEC 61000-4-9
>	IEC 61326
>	IEC 61850-3
>	GB/T 17626.5
>	ITU-T K.12
>	UL1449
>	ITU K45
>	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.

CWS series is a high-end 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.

For CWS x00G/SPN38xxT, X stands for voltage in CWS x00G and X stands for network load current capacity in SPN38xxT.

Features

- > 5.7 inch color touch screen
- > surge voltage up to 6kV/4kV, surge current up to 3kA/4kA
- > surge voltage and current monitoring and LCD display
- > surge failure detection
- > Test programmable function with easy operation
- > External automatic three-phase five-wire CDN
- > external magnetic field coil as per IEC61000-4-9 test
- > Ethernet, RJ45 for PC remote control, print and documentation

Industries

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

General data	
Display screen	5.7 inch TFT color touch screen
Power supply	AC 110V/220V ±10%, 50/60Hz (default AC 220V 50Hz)
Fuse	6 A
Max. Power consumption	250 W
Memory space	Infinite (PC)
Communication mode	Ethernet, RJ 45
External control	D-sub 25p
External trigger input	BNC, 5V TTL
CRO trigger output	BNC, 5V TTL
Input	BNC, 5V TTL
Synchronization	45-65Hz, 20-500V between dotted terminal & undotted terminal 0-500V among dotted terminal, undotted terminal and case
Warning LED	0-220VAC 10A/0-48VDC 3A Depending on external signal lamp
Safety circuit	Test only can be started when it is closed
Failure test	Display on LCD and interrupt the work at failure case
Working indicator	LED, LCD front panel display
Grounding connection	Flat ground line
Output mode	Standard 1m coaxial cable
Size	19 inch/6U *2
Weight	Approx. 30kg
Temperature	15-35°C
Humidity	45%-75%
Air pressure	86kPa-106kPa

Surge test as per IEC 61000-4-5		
Test voltage	0.2kV-6.0kV/8.0kV, ±10%	
Voltage waveform	Front time: 1.2us±30%, Time to half value: 50us±20%	
Test current	0.1 kA-3.0kA/4.0kA, ±10%	
Current waveform	Front time: 8us±20%, Time to half value: 20us±20%	
Source output impedance	2 ohm	
Output polarity	+/-/alternative	
Coupling capacitance	9uF, 18uF	
Coupling Resistance	10 ohm, 0 ohm coupling resistance IEC standard mode or customized mode	
Pulse cycle	5s-99s (shortest depends on test voltage)	
Number of test	1-999	
Trigger mode	Automatic, manual and external	
Synchronization	0°-360°, 1° step or random	
Internal CDN load capacity		
Standard module		
Model	SPN 38XXT	External
Coupling capacitance	9uF / 18uF	
Decoupling inductance	1.5mH	
Common mode resistance	10Ω	
Superimposed mode	Automatic programmable mode	
Network capacity	Max: AC 380V phase current 16A/32A	

Basic equipments
CWS x00G/SPN38XXT simulator, three-core power cord, short connection plug, test cable, ground wire, fuse, coaxial cable factory test report, warranty report and user manual.

Optional accessories
CDN
Network for unshielded asymmetric line CDN 405AF8 (90V gas discharging tube coupling; test voltage 4KV; AE/EUT port -RJ45; max. Withstand current 1A; decoupling residual value 90V)
Network for unshielded symmetric line CDN 405T8 (90V gas discharging tube coupling; test voltage 6KV; AE/EUT port -RJ45; max. Withstand current 1A; decoupling residual value 90V)
Network for unshielded symmetric line CDN 405T8A1 (90V gas discharging tube coupling; test voltage 6KV; AE/EUT port-RJ45; max. Withstand current 1A; decoupling residual value 90V)
2. 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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