



Lightning Surge Generator

CWS 600(S-480-32-T)

- IEC/EN 61000-4-5
- IEC/EN 61000-4-9
- GB/T 17626.5
- GB/T 17626.9

Features

- > 5.7-inch color touch screen front panel operation
- > Surge failure detection function
- > Surge voltage and current measurement and acquisition
- > Test sequence function
- > Built-in CDN rated AC 480 V 20 A /32 A, DC 480 V 20 A/ 32 A
- > Can control external three-phase CDN and other functional modules
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports

Introduction

The CWS 600 complies with IEC/EN 61000-4-5, IEC/EN-4-9 and simulates high-voltage surges induced by lightning and power grid switching.

The CWS 600 offers a max. test voltage of 6 kV. Can be configured with built-in or external CDN according to customer requirements.

The CWS 600 Series is equipped with a full range of accessories to meet customers' diverse testing requirements.

Application Areas



Technical Parameters

Pulse Source	
Test Voltage	0.25 kV ~ 6.0 kV, $\pm 10\%$
Test Current	0.125 kA ~ 3 kA, $\pm 10\%$
Voltage Waveform	Front time: $1.2 \mu\text{s} \pm 30\%$ Duration: $50 \mu\text{s} \pm 20\%$
Current Waveform	Front time: $8 \mu\text{s} \pm 20\%$ Duration: $20 \mu\text{s} \pm 20\%$
Output Impedance	2 Ω , 12 Ω
Repetition Time	6 s ~ 99 s (The shortest interval is determined by the test voltage.)
Counter	1 ~ 999
Calibration capacitor	Built-in 18 μF capacitor
Coupling Resistor	0 Ω , 10 Ω
Coupling Capacitor	9 μF , 18 μF
Peak Voltage Monitor	LCD display, BNC output, 1,000 V: 1 V
Peak Current Monitor	LCD display, BNC output, 500 A: 1 V
Built-in CDN (Three-phase Full Auto)	
EUT Rating	AC 480 V, 20 A / 32 A (optional), 50/60 Hz
	DC 480 V, 20 A / 32 A (optional)
EUT Power Input AND Output	4 mm banana plug cables
EUT Voltage Monitoring Output	BNC output, 100 V : 1 V
Sync Mode	Internal sync, external sync, asynchronous
Internal Sync	0° ~ 360°, adjustable in 1° steps or random mode

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 100V ~ 240 V, $\pm 10\%$, 50/60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Communication Mode	Ethernet LAN
External Control Mode	D-sup 25 pin
External Trigger Mode	BNC, 5 V TTL
CRO Trigger Mode	BNC, 5 V TTL
Operating Control Input	BNC, 5 V TTL
Trigger Mode	Manual, Auto, External Trigger
External Sync Input	20 V ~ 400 V, 45 Hz ~ 65 Hz
Warning Lamp Output	Multiple-core connector. Optional warning lamp module.
Safety Circuit	Stop work when safety circuit is open
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication and LCD display in front panel
Grounding Mode	Flat grounding wire
Dimension	6U rack, 450 mm * 280 mm * 620 mm
Weight	Approx. 51 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Power Cord, Test Cables, Flat grounding Wire, Fuse, User Manual

Optional Module

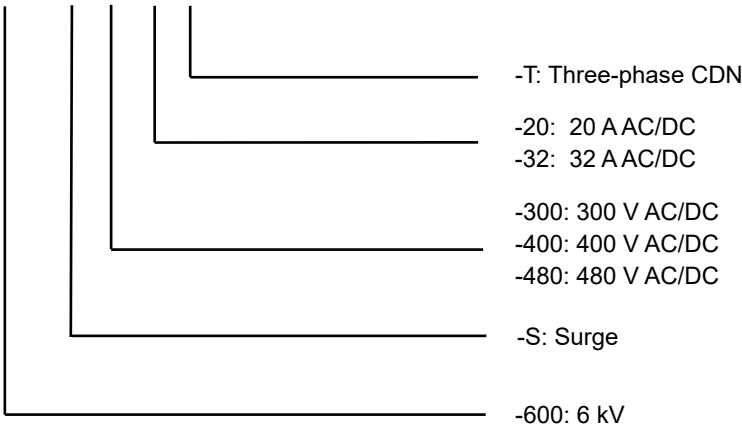
1	Surge and EFT Coupling/Decoupling Network	Model: SEPN Series Complies with standards IEC/EN 61000-4-4, -4-5, -4-12, GB/T 17626.4, GB/T 17626.5, GB/T 17626.12 Customizable according to the voltage class requirements of EUT	
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Optional Accessories

1	HV Differential Probe	Model: VCF 80 Test voltage 8 kV, 1,000:1	
2	Wide-band Current Monitor	Model: CM 0220M 20 kA, 0.01 V/A	
3	Wide-band Current Monitor	Model: CM 0301M 200 kA, 0.001 V/A	
4	PC Control Software	Model: Corelab Support Windows 7/8/10 /11; support Ethernet Interface; support sequence test, easy to operate, generate and export test report.	

Naming Rule

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3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.