



Combination Wave Lightning Surge Simulator

CWS 600 Series

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

Features

- > 5.7-inch color touch screen front panel operation;
- > Surge failure detection function;
- > Surge voltage and current measurement and acquisition;
- > Test scheduling function;
- > Built in fully automatic single-phase coupling/decoupling network AC 300 V 20 A/32 A, DC 300 V 20 A/32 A;
- > Can control external three-phase coupling/decoupling network and other functional modules:
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports.

Introduction

The CWS 600 series is an intelligent multifunctional combination immunity (EMS) testing equipment that can meet various testing requirements such as surge immunity, communication waves, and pulse magnetic fields according to international standards and product series standards. The testing voltage can reach up to 6 kV.

The CWS 600 series is the best choice for fully compatible immunity testing solutions. Meets the anti-interference testing requirements of EU CE certification and CCC certification for single-phase test equipment, with a built-in fully automatic single-phase coupling/decoupling network, and can also perform three-phase five wire test equipment testing through an automatically controlled external coupling/decoupling network (up to 400 A). We provide you with various testing accessories to meet various application needs such as power frequency magnetic field testing.

Application Areas



















General Parameters

Display	5.7-inch TFT touch screen		
Scope of Working Power Supply	100 ~ 264 V AC, 47 ~ 63 Hz		
Fuse	6 A		
Maximum Power Consumption	300 W		
Communication Method	Ethernet LAN		
External Control Mode	25 needle parallel thread		
External Trigger Input	BNC, 5 V TTL		
CRO Triggers Output	BNC, 5 V TTL		
Operation Control Input	BNC, 5 V TTL		
Pulse Triggering Method	Manual, automatic, externally triggered		
External Synchronous Input	20 ~ 400 V, 45 ~ 65 Hz		
Warning Light Output	Multi core connector output, matched with external alarm light module (optional)		
Safety Circuit	Short circuit of safety loop, stop working when the safety loop is open circuit		
Failure Detection	When it fails, the front panel LCD displays and interrupts the instrument's operation		
Instrument Working Status Indication	LED indication, LCD display		
Instrument Grounding Connection Method	Use a flat grounding wire		
Chassis Size	6U L * W * H: 620 * 450 * 280 mm		
Instrument Weight	About 50 kg		
Environmental Scope	15°C ~ 35°C		
Pressure Range	86 kPa ~ 106 kPa		
Humidity Range	45% ~ 75%		

Built in coupling /decoupling network (single-phase fully automatic)

EUT Carrying Capacity	AC 300 V 20 A/32 A (optional) 50/60 Hz	
	DC 300 V 20 A/32 A (optional)	
EUT Power Input and Output	4mm banana plug cable	
EUT Voltage Monitoring Output	BNC output, 100 V: 1 V	
EUT Current Monitoring Output	BNC output, 10 A: 1 V	
Synchronization Method	Internal synchronization, external synchronization, asynchronous	
Internal Synchronization	0°~360°, 1° step setting or random mode	
1.2/50 µs Combined Wave Coupling/ decoupling	Built in single-phase automatic coupling/decoupling network	
, ,	configuration only has a source, while the mes with a built-in coupling decoupling network	



IEC-61000-4-5 Surge Immunity Test

0.25 kV ~ 6 kV ±10%		
0.125 kA ~ 3 kA ± 10%		
1.2 µs ± 30% , 50 µs ± 20%		
8 µs ± 20%, 20 µs ± 20%		
2 Ω, 12 Ω		
6 ~ 99 s(the shortest depends on the test voltage)		
1~999 times		
Optional scheduling mode		
Positive, negative, alternate		
18 μF built-in		
0 Ω, 10 Ω		
Built in at 9 μF and 18 μF		
LCD display, BNC output 1000 V: 1 V		
LCD display, BNC output 500 A: 1 V		

IEC-61000-4-5 Communication Wave Test

Test Voltage	0.25 kV ~ 6 kV (±10%)	
Test Current	6.25 A ~ 150 A ±10%	
Voltage Waveform	10 μs ± 30% , 700 μs ± 20%	
Current Waveform	5 μs ± 20%, 320 μs ± 20%	
Output Impedance	15 Ω, 40 Ω	
Test Interval Time	6 ~ 99 s(the shortest depends on the test voltage)	
Number of Experiments	1~999 times	
Experimental Mode	Optional scheduling mode	
Polarity	Positive, negative, positive/negative	



CWS 600 Selection Guide List

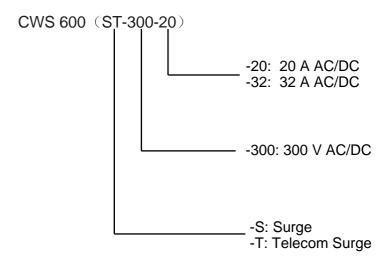
Generator	1.2/50µs	10/700µs	CDN single-phase three wire network
Compact immunity test system CWS 600(ST-300-20)	\checkmark	~	~
Compact immunity test system CWS 600(S-300-20)	~		√
Compact immunity test system CWS 600(S)	√		
Compact immunity test system CWS 600(T)		~	
Optional module			·
Lightning surge coupling/Decoupling network SPN xxxxT10 series	√		Can be customized according to EUT voltage and current level requirements
Non shielded symmetrical high-speed communication line lightning surge coupling decoupling network CDN 405T8A1	√	√	
Non shielded symmetrical high-speed communication line lightning surge coupling decoupling network CDN 405T8-C	√		

List of Testing and Measurement Selection Guidelines

Instrument na	me and model	1.2/50µs	10/700μs
A CONTRACTOR OF THE PARTY OF TH	Differential probe VCF-80	~	~
	Broadband current monitoring clamp CM 0220M	√	~
	10 kV surge calibration capacitor module CCM 1000	\checkmark	\checkmark
	Immunity testing software CoreLab	\checkmark	\checkmark



Naming Rules



Note: External network and other accessories have independent models and are not reflected in the host model; -300-20/32 represents the presence of a built-in coupling decoupling network.

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