



Ring Wave Simulator

RWS 600(R-480-32-T)

- IEC 61000-4-12
- EN 61000-4-12
- GB/T 17626.12
- ANSI/IEEE C62.41

Features

- > 5.7-inch color touch screen front panel operation
- > Ring Wave failure detection function
- > Self-test Function
- > Test sequence function
- > Built-in three-phase 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 RWS 600 Ring Wave Simulator is a professional EMS immunity test instrument. It complies with IEC/EN 61000-4-12, GB/T 17626.12 and ANSI/IEEE C62.41 standards.

The unit can effectively simulate transient oscillatory disturbances caused by grid switching operations and lightning surges. Compatible with external expandable CDNs, it can fulfill test requirements for EUTs with high voltage and high current ratings.

Application Areas



Technical Parameters

Technical Parameters for Ring Wave as per IEC / EN 61000 - 4 - 12	
Open Circuit Output Voltage (Pk ₁)	0.25 kV ~ 6.0 kV (± 10%)
Decay of Open Circuit Voltage	$0.4 \leq (Pk_2)/(Pk_1) \leq 1.1$, $0.4 \leq (Pk_3)/(Pk_2) \leq 0.8$, $0.4 \leq (Pk_4)/(Pk_3) \leq 0.8$
Oscillation Frequency of Open Circuit Voltage (1/T)	100 kHz (± 10%)
Voltage Rise Time (T ₁ , 10%-90%)	0.5 μs (± 30%) @ Pk ₁
Current Rise Time (T ₂ , 10%-90%)	0.2 μs ~ 1 μs @ Pk ₁
Short Circuit Current (When the open circuit voltage is 6,000 V)	500 A (± 10%) @ 12 Ω; 200 A (± 10%) @ 30 Ω
Repetition Rate	6 s ~ 99 s
Counter	1 ~ 999
Output Impedance	12 Ω, 30 Ω
Text Mode	Support test sequence function
Polarity	+, -, alternative

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" TFT touch screen
Working Power	AC 100V ~ 240 V, ±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

General Parameters

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

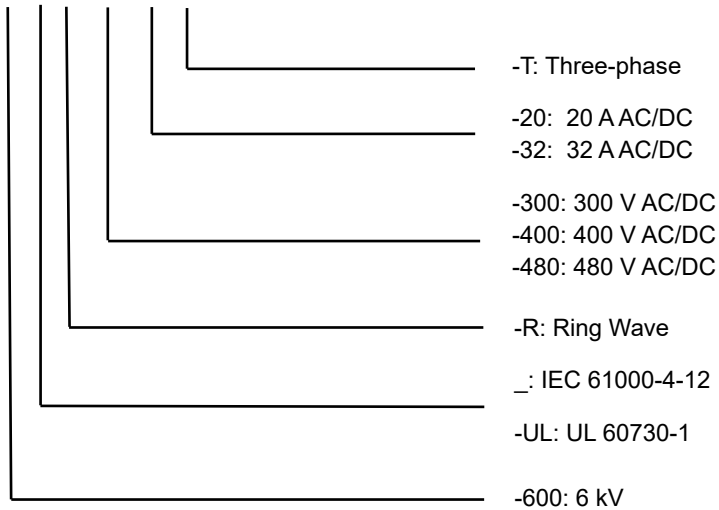
1	Surge and EFT Coupling/Decoupling Network	Model: SEPN Series Complies with standards IEC/EN 61000-4-4, -4-5, -4-12, GB/T 17626.4, GB/T 17626.5, GB/T 17626.12 Customizable according to the voltage class requirements of EUT	
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Optional Accessories

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	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

RWS 600_(R-480-20-T)



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