

Ring Wave Simulator

RWS 600



- IEC/EN 61000-4-12
- ANSI/IEEE C62.41
- GB/T 17626.8

Features

- > 5.7-inch color touchscreen front panel operation
- > Max. output voltage up to 6.0 kV ultra-compact simulator
- > Built-in three-phase CDN, max. current up to 16 A, AC 380 V 16 A
- > Built-in system fault alarm function
- > Meets the immunity testing requirements of enterprise users and testing institutions
- > Test scheduling function

Introduction

The RWS 600 ring wave simulator complies with the requirements of IEC/EN 61000-4-12 and ANSI/IEEE C62.41 standards. It can simulate transient phenomena generated by power supply and control switch operations or lightning events, and generate ring wave interference on power lines, control lines and signal lines.

The RWS supports external extension CDN to meet the test requirements of high-voltage and high-current EUTs.

Application Areas



Technical Parameters

Open Circuit Output Voltage (Pk ₁)	0.25 kV ~ 6.0 kV (±10%)
Open Circuit Voltage Oscillation Frequency	100 kHz ±10%
Open Circuit Voltage Rise Time (T ₁ , 10% ~ 90%)	0.5 μs ±30% @ Pk ₁
Open Circuit Voltage Attenuation	$0.4 \leq (Pk_2) / (Pk_1) \leq 1.1$ $0.4 \leq (Pk_3) / (Pk_2) \leq 0.8$ $0.4 \leq (Pk_4) / (Pk_3) \leq 0.8$
Short Circuit Current Rise Time (T ₁ , 10% ~ 90%)	0.2 μs ~ 1 μs @ PK1
Short Circuit Current (Pk ₁) @ Open Circuit Voltage (Pk ₁) 6,000 V	500 A ±10% @ 12 Ω; 200 A ±10% @ 30 Ω
Pulse Interval	10 s ~ 99 s
Number of Pulses	1 ~ 999
Output Impedance	12 Ω, 30 Ω automatic switching
Trigger Mode	Automatic, manual, external trigger input
Phase Synchronization	0° ~ 360°, 1° resolution, asynchronous available
CDN Path	Bilt-in L1, L2, L3, N, PE, automatic switching
CDN	Max. AC 380 V, 16 A
Test Mode	Scheduling of test parameters such as voltage, coupling path and phase synchronization angle

General Parameters

Display Screen	5.7-inch TFT touchscreen
Working Power	AC 220 V ±10%, 50/60 Hz ±5%
Fuse	6 A
Max. Power Consumption	200 W
Dimension	6U rack: 620 (L) * 450 (W) * 280 (H) mm
Weight	Approx. 35 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Fuse, Test Cable, Grounding Wire, User Manual

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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