



Slow Damped Oscillatory Wave Simulator **DOS 300(1XXX)**

- IEC/EN 61000-4-18
- IEC/EN 60255-22-1
- GB/T 17626.18
- GB/T 14598.13
- ANSI C37.90

Features

- > 5.7-inch color touchscreen front panel operation
- > Max. test voltage 3.3 kV
- > Support test sequence for easy operation
- > Support LAN communication interface for remote control

Introduction

The DOS 300(1XXX) Slow Damped Oscillatory Wave Simulator is designed in accordance with IEC 61000-4-18 to simulate repetitive slow damped oscillatory phenomena caused by switching disconnectors occurring on power, control, and signal cables in HV/MV power systems, particularly caused by HV busbar switching.

The DOS 300(1XXX) outputs damped oscillatory waves with oscillation frequencies of 100 kHz and 1 MHz and provides a maximum test voltage of 3.3 kV. Based on 3C TEST's new-generation control platform, it features high system integration, automated testing, easy operation, and high reliability.

Application Areas



Technical Parameters

Test Voltage Range	0.2 kV ~ 3.3 kV, $\pm 10\%$ (source port)
Polarity	Positive, negative, alternative
Source Impedance	200 $\Omega \pm 20\%$
Rise Time	75 ns $\pm 20\%$
Voltage Oscillation Frequencies	100 kHz, $\pm 10\%$ 1 MHz, $\pm 10\%$
Repetition Rate	1 Hz ~ 50 Hz adjustable @100 kHz, cal. frequency 40 Hz 1 Hz ~ 500 Hz adjustable @1 MHz, cal. frequency 400 Hz
Voltage Decaying	$P_{k5} > 50\%$ of the P_{k1} value $P_{k10} < 50\%$ of the P_{k1} value
Burst Duration	1 s ~ 999 s
Burst Interval	1 s ~ 999 s
Burst Repetition	1 ~ 999
Trigger Mode	Automatic, manual

General Parameters

Display Screen	5.7-inch TFT touchscreen
Working Power	AC 220 V $\pm 10\%$, 50/60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Mode	Ethernet LAN
External Control Mode	D-sub 25p
Grounding Method	Flat grounding wire
Dimension	4 U rack, 450 (W)*190 (H)*620 (D) mm
Weight	Approx. 30 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

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

Optional Accessories

1	Coupling/Decoupling Network for Unshielded Asymmetric Communication Line of Damped Oscillatory Wave	Mode: CDN 418AFL8 Pulse voltage: 4 kV (6 kV can be customized) Coupling mode: line-to-line, line-to-ground Communication rate: <5 MHz Data rate: Max. 5 Mbit/s Working voltage: Max. 12 V DC Working current: Max. 4 A	
2	Coupling/Decoupling Network for Damped Oscillatory Waves Testing on Unshielded Symmetrical High-Speed Communication Lines	Mode: CDN 418TH8 Pulse voltage: 4 kV (6 kV can be customized) Coupling mode: 4-pair, 8-wire unshielded symmetrical Communication rate: 10 MB/100 MB/1,000 MB Data rate: Max. 1,000 Mbit/s Working voltage: Max. 250 V DC Working current: Max. 1 A	

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