

Fast Damped oscillatory wave simulator

DOS 400F

Datasheet



In Compliance with

- > IEC 61000-4-18
- > IEC 255-22-1
- > GB/T 14598.13
- > ANSI C37.90

Introduction

DOS 400F Fast Damped Oscillatory Wave Simulator can meet the oscillation frequency 3MHz/10MHz/30MHz, test voltage up to 4kV. The oscillatory wave is the repeatable transient phenomenon produced on the high or medium supply line, control line and signal line. DOS 400F can perform the tests of fast damped oscillatory wave as per IEC 61000-4-18.

Features

- > 5.7inch Colorful touch screen operation
- > Oscillation frequency 3 MHz / 10 MHz / 30 MHz, test voltage up to 4.2 kV
- > Internal three phase CDN, max. current up to 16 A
- > Optional for external three phase CDN up to 32 A
- > LAN Ethernet interface, can be used for remote control
- > Meet the requirements of immunity test equipments for enterprise, institution and testing organization

Application Areas

- > Communication
- > Telecom
- > Medical
- > Broadcast and TV
- > Railway
- > Information technology
- > Military
- > Aviation
- > New energy and power

| Technical parameters | |
|-------------------------------|---|
| Test voltage | 0.5 kV - 4 kV , $\pm 10\%$ |
| Polarity | +/- |
| Source impedance | 50 ohm $\pm 20\%$ |
| Rise time of voltage waveform | 5 ns $\pm 30\%$ |
| Oscillatory frequency | 3 MHz / 10 MHz / 30 MHz $\pm 10\%$ |
| Attenuation | Peak 5 > Peak 1的50% Peak 10 < Peak 1的50% |
| Repetition frequency | Max.5000/s $\pm 10\%$ |
| Burst duration | 50 ms $\pm 20\%$ @ 3 MHz 15 ms $\pm 20\%$ @ 10 MHz 5 ms $\pm 20\%$ @ 30 MHz |
| Burst period | 300 ms $\pm 20\%$ |
| Short circuit current | 10 -80 A $\pm 20\%$ |
| Rise time of current waveform | 3 MHz < 330 ns 10 MHz < 100 ns 30 MHz < 33 ns |
| Attenuation | Peak 5 > Peak 1的25% Peak 10 < Peak 1的25% |
| Trigger mode | Auto, manual and external |
| Synchronization | 0° - 360°, 1° step or random |
| CDN | Internal three phase CDN: AC 380 V 16 A Max: AC 450 V DC 300 V 16 A |

| General parameters | |
|----------------------------|--|
| Display screen | 5.7 inch TFT touch screen |
| Working power supply range | AC 110 V / 220 V , $\pm 10\%$, 50/60 Hz(default AC 220 V 50 Hz for China mainland) |
| Fuse | 6 A |
| Max. power consumption | 100 W |
| Working status display | Front panel LED indication, LCD display |
| Size | 19 inch/6U |
| Weight | Approx. 50 Kg |
| Temperature range | 15–35 °C |
| Humidity range | 45%–75% |
| Air pressure | 86 kPa – 106 kPa |

Standard equipped

Fast damped oscillatory wave simulator 1PCS, test wires, grounding wires, fuse, factory inspection report, warranty and user manual



SUZHOU 3CTEST ELECTRONIC CO., LTD.

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

Tel: +86 (0)512 6807 7192 Fax: +86-512-68079795

Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn

www.3c-test.com

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