







High-Power Fast Damping Oscillation Wave Generator DOS 400F

IEC61000-4-18:2019

Features

- > 5.7-inch color touch screen front panel operation
- > The oscillation frequency is 3 MHz / 10 MHz / 30 MHz, the test voltage can reach up to 4.2 kV
- > Built in high-power three-phase DC automatic coupling/decoupling network, EUT with load capacity of AC 1000 V 100 A, DC 1500 V 100 A
- > LAN Ethernet interface for remote control
- > Meeting the needs of enterprises, institutions, and testing institutions for antiinterference testing equipment, it can completely replace imported equipment.
- > Automatically switch coupling routes
- > Coupling path display (indicator light)

Introduction -

The DOS 400F fast damping oscillation wave generator has three selectable oscillation frequency points of 3 MHz/10 MHz/30 MHz, and the highest test voltage can reach 4.2 kV. It is equipped with a high-power three-phase DC automatic coupling/decoupling network. Oscillatory waves are repeatable transient phenomena that occur on high or medium voltage power lines, control lines, and signal lines. The DOS 400F fast damping oscillation wave generator can complete the testing of fast damping oscillation waves required by the IEC 61000-4-18 standard.

Application Areas



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Technical Parameters

Test Voltage Range	0.25 kV ~ 4.2 kV \pm 10%(Calibration voltage: 500 V ~ 4.0 kV)			
Polarity	Positive and negative			
Source Impedance	$50 \ \Omega \pm 20\%$			
Voltage Wave Rise Time	5 ns \pm 30%			
Frequency	3 MHz / 10 MHz / 30 MHz $~\pm~$ 10%			
Decay	Pk5>50% of Pk1			
	Pk10<50% of Pk1			
Repetitive Frequency	$5 \text{ kHz} \pm 10\%$			
Repetitions	Maximum 999,9			
Pulse Train Duration	50 ms \pm 20% at 3 MHz			
	15 ms \pm 20% at 10 MHz			
	5 ms \pm 20% at 30 MHz			
Group Cycle	300 ms±20%			
Short-Circuit Current	5 A ~ 80 A \pm 20%(Calibration current: 10 A ~ 80 A)			
	3 MHz<330 ns			
Current Wave Rise Time	10 MHz<100 ns			
	30 MHz<33 ns			
Decay	Pk5>25% of Pk1			
	Pk10<25% of Pk1			
Trigger Mode	Automatic, manual, external triggering			
Coupling Network	Built in high-power three-phase DC automatic coupling/decou			
	pling network			
	EUT load capacity AC 1000 V 100 A			
	DC 1500 V 100 A			
Residual surge voltage at	Not exceeding 15% of the applied test pulse voltage or twice			
decoupling network power	the peak rated voltage of the coupling/decoupling network			
port				

General Parameters	Scope of Working Power Supply	AC 220 V \pm 10%,50 Hz / 60 Hz \pm 5%
	Fuse	6 A
	Use Ftorage Space	Infinite (PC)
	Communication Method	Ethernet LAN, RJ45
	Instrument Weight	About 145 kg
	Safety Circuit	Stop working when the safety circuit is not closed
	Failure Detection	When it fails, the front panel LCD displays and interrupts the ir strument operation
	Instrument Working Status Indicator	Front panel LED indicator, LCD display
	Instrument Grounding Connection Method	Use a flat grounding wire
	Chassis Size	19 inches / 22U 600 mm (W) * 1145 mm (H) * 800 mm (D)
	Temperature Range	15 ℃ ~ 35 ℃
	Humidity Range	45% ~ 75% RH(No condensation)
	Compressed Air	86 kPa ~ 106 kPa

Standard Accessories

Power cord, Fuse, test wire, Grounding wire, RF cable, Instruction manual, Quality inspection report, Product warranty certificate, Pulse group single channel testing fixture

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Optional Accessories	1	Splitter	0.1 V/A Model: MCS 01B	H
	2	Pulse Group Calibration Kit	Model: EFT-CA-KIT(SHV) EFT attenuator, meeting pulse group calibration requirements TFB 500 (SHV): Input impedance 50 Ω , output impedance 50 Ω , Attenuation ratio: 500 : 1 TFB 1000 (SHV): Input impedance 1000 Ω , output impedance 50 Ω , Attenuation ratio:1000 : 1 High voltage RF connector: SHV-BNC- JJ BNC to Banana Plug: BNC (K) -2BP (J) RF cable: 2*BNC/J-142-PNR-1000mm	
	3	Capacitive Coupling Clamp	Satisfy the technical requirements for capacitive coupling clamps in IEC61000-4-4, and conduct EFT/ Burst anti-interference tests on the input, output, control, and data lines of the tested equipment by superimposing interference. Model: CCC 100(SHV)	

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