

Damped Oscillation Wave/Damped Oscillation Magnetic Field Testing System

DOW-3010 【Introduction】

The DOW-3010 Damped Oscillation Wave and Damped Oscillation Magnetic Field Combined Generator is capable of simultaneously meeting the testing requirements for both damped oscillation waves and damped oscillation magnetic fields. It boasts a maximum output of up to 3 kV and can generate a maximum magnetic field of 100 A/m. When used for testing damped oscillation wave magnetic fields, its maximum output current can reach 120 A. Fully compliant with standard requirements, this generator provides an accurate evaluation method for assessing a product's immunity to damped oscillation waves and damped oscillation magnetic fields.

Compliance Standards

IEC 61000-4-10 GB/T M17626.10 IEC 61000-4-18 GB/T 17626.18 GB/T 14598

Application Fields

Industrial Equipment, Electrical Instrumentation, Instrumentation and Meters, Energy Storage, Rene

Technical Features

- ◆ Highly integrated, a two-in-one product;
- ◆ Utilizes electronic switching technology for stable equipment performance and smooth waveform;
- ◆ Compatible coils allow for damped oscillation magnetic field testing;
- ◆ LAN and RS 485 ports are pre-installed;
- ◆ Damped oscillation magnetic field can reach up to 100 A/m;
- ◆ Built-in three-phase five-wire coupling/decoupling network: AC 600 V/32 A; DC 1000 V/32 A;
- ◆ Features a 7-inch Android capacitive touchscreen with strong anti-interference capabilities, easy and convenient settings.

Parameter List

Specification	DOW-3010	DOW-183	DOW-103
Output Voltage Waveform	200 V ~ 3.3 kV+10%	200 V ~ 3.3 kV+10%	—
Output Magnetic Field Strength	10 ~ 100 A/m	—	10 ~ 100 A/m

Oscillation Frequency	100 kHz±10%、1 MHz±10%	100 kHz±10%、1 MHz±10%	—
EUT Power Supply	AC 600 V/32 A DC 1000 V/32 A	AC 600 V/32 A DC 1000 V/32 A	—
Pulse Polarity	Positive/Negative/Alternating Positive and Negative		
Rise Time	75 ns±20%		
Voltage Decay	VPK5 > 50%* VPK1, VPK10 < 50%*VPK1		
Repetition Frequency	1 ~ 100 Hz (oscillation frequency at 100 kHz) continuously adjustable		
Pulse Group Width	1 ~ 1000 Hz (oscillation frequency at 1 MHz) continuously adjustable		
Pulse Group Interval	1 ~ 9999 s continuously adjustable		
Testing Function	1 ~ 9999 s continuously adjustable		