

HDOW

Fast/Slow Damped Oscillatory Wave Generator



Continue

Stop

Main

HDOV Damped Oscillatory Wave Generator



Overview

Both of standards IEC 61000-4-18 Ed.1 and ANSI C37.90 describe oscillator generators that meet specific open-circuit waveform parameters. Damped oscillatory waves are used for testing substation relays and relay systems or similar environmental immunity tests. The waveform also complies with IEC product standard IEC 60255-22-1 and GB/T 17215.211.

When AC or pulse voltage is used, safety is extremely important. HDOV output adopts HSV high-voltage coaxial to avoid accidental contact with high voltage. The input and output ports of the coupling network use contact-proof banana plugs.

HDOV includes an integrated coupling and decoupling network with a maximum voltage of 480V and a current of 32A. High-speed electronic switch imported from Germany, through specially designed coupling parameters, the correct waveform and amplitude are guaranteed.

HDOV adopts a 7" touch color screen, which can set the test level and parameters arbitrarily, and couple the network path. The test can be completed without the assistance of a computer test report. The voltage monitoring circuit can quickly confirm the waveform and amplitude, which is beneficial to the instrument's own judgment.



HDOV front view

Features

- 7" touch screen, microcomputer program control, USB/ LAN control port
- Maximum test voltage 3.3kV(slow)/4.0kV (fast)
- 75ns & 200Ω(slow)/5ns & 50Ω(fast)
- 100kHz & 1MHz frequency, upgradeable to 3MHz/10MHz/30MHz
- Built in three-phase coupling decoupling network, up to 32A
- 1mx1m magnetic field coil, 100A/m

Applications

- IEC / EN 61000-4-10
- IEC/EN 61000-4-18
- IEC / EN 62052-11
- ANSI C37.90
- GB/T 17215.211
- GB/T 17626.10
- GB 17626.18
- OIML R 46-1/-2

HDOV Damped Oscillatory Wave Generator



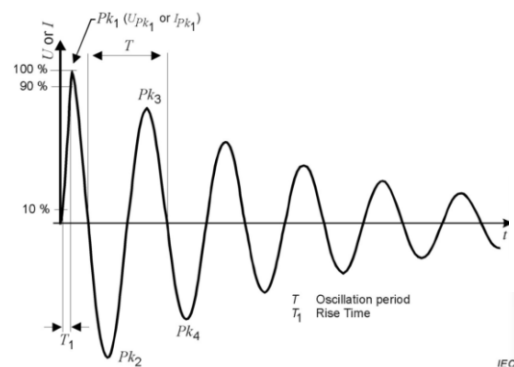
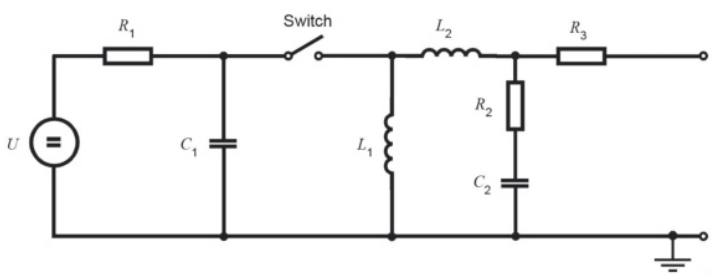
Slow Oscillatory Wave Host HDOV

Pulse Voltage	0.25 ~ 3.3 kV	Polarity	+/-
Impulse Frequency	100kHz/1MHz	Coupling Network	3x480Vac
Repetition Frequency	40Hz&400Hz	Pulse Output	SHV high voltage output
Source Impedance	200Ω	Monitor Output	BNC, Voltage (500:1)
Rise Time	75ns	Repeat Time	2s to last

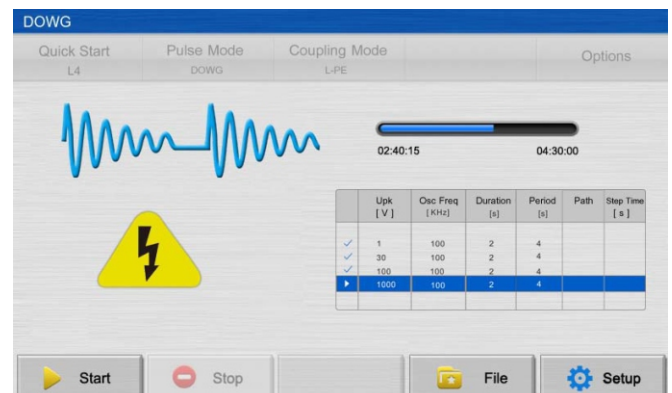
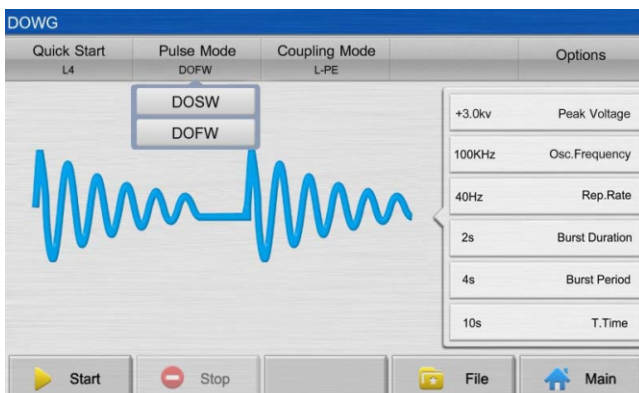
Fast Oscillator Host HDOV

Voltage Range	500V~4.4kV	Coupled Network	3x480Vac
Impulse Frequency	3MHz/10MHz/30MHz	Rise Time	5ns
Repetition Frequency	5000/s	Pulse Period	300ms
Source Impedance	50Ω	Short circuit current	10A~88A
Rise Time Pulse duration	3 MHz:50 ms 10 MHz:15 ms 30 MHz:5 ms	Current rise time	3 MHz: <330 ns 10 MHz: <100 ns 30 MHz: <33 ns

Schematic diagram of oscillatory wave generator



Software running interface



Order No.	Name	Model	Describe
41070100	Slow Damped Oscillatory Wave Generator	HDOV-S16	DOW:±3. 3kV,3P/16A,IEC 610000-4-18
41070200		HDOV-S30	DOW:±3. 3kV,3P/32A,IEC 610000-4-18
41080580	Damped Oscillator Fast Module	Options_F	500V ~ 4.4kVpeak,3×440Vac/16A/32A,IEC 610000-4-18
41080590	Unshielded unbalanced line coupling decoupling network	HCDN-DO4	DOW:±3. 3kV,274Vac/dc,IEC 610000-4-18 Ed2.0 Figure12
41080600	Unshielded communication line Coupling decoupling network	HCDN-DO8S	Coupling parameter:0.5pF,decoupling parameter:4×1.5mH(common mode rejection)/GAS/ABDs IEC 61000-4-18 Ed2.0 Figure 13
41080610	Capacitive coupling clamp	H3C-DO	100pF~1000pF,maximum diameter 40mm,IEC 61000-4-18 Ed2.0



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