

IPG 2554

Oscillatory Wave Generator

Slow damped oscillatory	100 kHz
	1.0 MHz
Fast damped oscillatory	3.0 MHz
	10.0 MHz
	30.0 MHz



According to
IEC 61000-4-18 : 2006

The oscillatory wave generator IPG 2554 has been designed for immunity testing of electrical and electronic equipment against repetitive damped oscillatory waves according to IEC 61000-4-18 requirements.

It generates a decaying sine waveform with ringing frequency from 100 kHz to 30.0 MHz. These waveforms represent disturbances occurring in power, control and signal cables installed in high voltage and medium voltage stations and in heavy industrial installations.

The output amplitude is adjustable between 0.25 kV and 4 kV. The positive or negative polarity of the first amplitude can be selected.

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The Coupling-/ Decoupling Network integrated allows superimposition of the generator output waveform to up to four interconnection lines of the equipment under test.

IPG 2554 features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to execute either standard test routines, or a user defined test sequence. The test parameters, which are shown on the built-in display, are easily adjusted by means of the rotary encoder. A standard parallel interface provides the ability to print a summary of the test parameters whilst testing is being carried out.

Moreover, all generator functions, including the settings of the built-in Coupling-/Decoupling Network, may be computer controlled via the isolated optical interface. The software program OW-REMOTE allows full remote control of the test generator via Ethernet light guide as well as documentation and evaluation of test results, accordingly to the IEC 17025. To record definite impulses, it is equipped with an Impulse Recording Function (IRF).

Options	IPG 2554
Software OW-REMOTE Test, for remote control	
With Impulse Recording Function (IRF)	
(XP, WIN7, WIN10) incl. 5 m fibre optic cable and PC Ethernet interface	

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TECHNICAL SPECIFICATIONS		IPG 2554
Mainframe		
Microprocessor controlled touch panel	7", capacitive	
Optical Ethernet Interface for remote control of the generator	optional	
Interface for saving reports	USB	
External trigger input/ output	Switch/ 10 V	
Coupling-/decoupling network for power supply lines	L1, L2, L3, N, PE	
Connector for external safety interlock loop	24 V =	
External red and green warning lamps	230 V, 60W	
Mains power	90V - 264V, 50/60 Hz	
Dimensions of desk top case W * H * D	450*330*500 mm ³	
Weight	35 kg	
Slow damped oscillatory		
Peak1 open circuit voltage	200V to 3 kV (± 10%)	
Oscillation frequencies	100 kHz 1 MHz (± 10%)	
Repetition rate	40 Hz 400 Hz (± 10%) Range: (40 – 400Hz)	
Voltage rise time (first peak)	75 ns ± 20%	
Voltage decay	Peak5 > 50 % of Peak1 value Peak10 < 50 % of Peak1 value	
Polarity of the first half-period	positive and negative	
Burst duration	continuous	
Test time	1 - 1000s	
Output impedance	200 Ω ± 20%	
HV-output	HV-OUT, 4 mm Ø connector	
Monitor output	100:1 ± 5%	
Specifications short circuit:		
Short circuit current (Peak1)	1.25 A to 12.5 A (± 20 %)	
Fast damped oscillatory		
Peak1 open circuit voltage	200V to 4 kV (± 10%)	
Oscillation frequencies	3 MHz 10 MHz 30 MHz (± 10%)	
Repetition rate	5000/s (± 10%) Range: (40 – 5000Hz)	
Voltage rise time (first peak)	5 ns ± 30%	
Voltage decay	Peak5 > 50 % of the Peak1 value Peak10 < 50 % of the Peak1 value	
Polarity of the first half-period	positive and negative	
Burst duration	3 MHz: 50 ms (± 20%) 10 MHz: 15 ms (± 20%) 30 MHz: 5 ms (± 20%) Range : (1ms – 50ms)	
Burst period	300 ms (± 20%) Range: (300ms – 1000ms)	
Test time	1 - 1000s	
Output impedance	50 Ω ± 20%	
HV-output	HV-OUT, Fischer connector	
Specifications short circuit:		
Current rise time	3 MHz: < 330 ns 10 MHz: < 100 ns 30 MHz: < 33 ns	
Current oscillation frequencies	3, 10 and 30 MHz (± 30 %)	
Decaying	Peak5 > 25 % of the Peak1 value Peak10 < 25 % of the Peak1 value	
Short circuit current (Peak1)	5 A to 80 A (± 20 %)	

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Coupling- / decoupling network for AC/DC power supply ports		CDN 2554-16
Coupling capacitor, slow pulses		0.5 μ F
Coupling capacitor, fast pulses		33 nF
Isolation withstand capability of the coupling capacitors with the 1.2/50 μ s wave		5 kV
Supply current rating / voltage rating		16 A / 250 V
Number of lines		4 + PE
Coupling mode		line to line or line to ground
Common mode decoupling (attenuation)		20 dB
Differential mode decoupling (attenuation)		30 dB
Input line terminal: L1-L4, GND		4 mm \varnothing connector
Output EUT terminal: L1-L4, GND		4 mm \varnothing connector

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