IPG 2025/ IPG 2436

HV - IMPULSE GENERATOR

Surge testing 1.2/50µs
2.5 kV - 20 kV /
2.5 kV - 24 kV

Picture: incl. Option PA 503

According to	
IEC 60664	Testing impulse dielectric strength of components, insulations, air- and surface flash-over gaps
VDE 0110	
VDE 0411	
VDE 0420	
IEC 60335 : 2010	Insulation test of inductors and coils

The HV - Impulse generators IPG 2025 and IPG 2436 create standard impulse voltages with waveform 1.2 / 50 µs acc. to IEC 60060. They are designed for testing impulse dielectric strength of components, insulations, air- and surface flash-over gaps according to the standards.

The peak value of the test voltage is continuously adjustable from 2 - 20 kV or 2 - 24 kV. Positive or negative polarity of output voltage can be selected. A built-in voltage divider 1000:1 allows monitoring of the impulse output waveform during testing.

The generators possess two high-voltage outputs with different source impedance. The HV output terminals are located beyond a dielectric cover with safety interlock. The transparent test cabinet prevents accidental contact with live parts of the test object and allows observation of the test object during testing.

The generator output possesses a current monitor detecting breakdown or flashover of the test object. The threshold of the current monitor is adjustable.

Sales Partner:

ABSOLUTE EMC

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The generator excels by its compact design, simple handling and precise reproducibility of test impulses. It features a microprocessor controlled user interface and a 7" touch screen unit for ease of use. The microprocessor allows the user to execute either standard test routines or a "user defined" test sequence. A standard USB port provides the ability to print a summary of the test parameters to a USB stick.

Moreover all generator functions may be computer controlled via the isolated optical interface. The software program IPG-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 2025	IPG 2436
PROTECTIVE COVER ON THE EQUIPMENT TOP		
With safety interlock switch connected to the safety interlock loop, red and green warning lamps installed, acc. to VDE 0104, built-in.	See figure	
Type PA 503, Dimensions: W * H * D	400 * 140 * 300 mm³	
Type PA 505, Dimensions: W * H * D	400 * 250 * 400 mm³	
Software IPG-REMOTE, for remote control Or description of remote control commands		
With Impulse Recording Function (IRF)		
(XP, WIN7, WIN10) incl. 5m long light guide and PC Ethernet interface		
Version without protective cover, current shunt Rm = 1Ω,		
BNC for measuring on the back		

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TECHNICAL SPECIFICATIONS		IPG 2025	IPG 2436
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/ 10V	
Connector for external safety interlock loop		24 V=	
External red and green warning lamps		230V / 60 W	
Mains power		90V – 264V / 50/60 Hz	
Dimensions of desk top case W * H * D		450*180*500 mm^3	
Weight		18kg	
HV-Generator section			
Peak value of impulse output voltage, adjustable, ± 5 %		2.5 - 20 kV	2.5 - 24 kV
Waveform of impulse output voltage, acc. to VD 0433, IEC 60060		1.2/50 µs ± 30 % / 20 %	
Max. stored energy		25 Joule	36 Joule
Energy storage capacitor	Cs	0.125 µF	
Resistor in series to the output HV1	Rs1	500Ω	
Resistor in series to the output HV2	Rs2	Standard 200Ω (opt. 40 or 50Ω)	
Output polarity, selectable		pos / neg / alt	
Trigger :			
a) manual		Push button	
b) external Trigger input		Switch	
c) internal, automatic, adjustable via test procedure		1 - 1000 Impulse	
Repetition time, selectable		5 - 1000 s	
CURRENT SENSE		built-in	
Threshold value, selectable		1 - 1250 µAs	1 - 1500 µAs
Impulse voltage divider, built-in		1000:1 ± 2 %	
Mains synchronous triggering, phase shifting, digitally selectable		0 - 359°, step 1°	
HV output, HV-OUT		HV Plug	
Accessories: power cable, turn key, instruction manual			

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