

IPG Series

HV - IMPULSE GENERATOR

Surge testing 1.2/50µs

0.2 - 6.25 kV

0.2 - 10 kV

0.25 - 12 kV

2.5 - 20 kV /

2.5 - 24 kV



Picture: IPG 1218 incl. Option PA 503

According to

IEC 60664	Testing impulse dielectric strength of components, insulations, air- and surface flash-over gaps
IEC 61180	
IEC 61439	
VDE 0110	
VDE 0411	
VDE 0420	Insulation test of inductors and coils
IEC 60335 : 2010	

High-Voltage Pulse Generators of IPG Series generate 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 acc. to IEC.

The peak value of the test voltage is continuously adjustable from 0.2 - 24 kV. Positive or negative polarity of the 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 threatening parts of the test object and allows observation of the test object during testing.

Sales Partner:



ABSOLUTE EMC LLC.

Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com

Phone: 703-774-7505
info@absolute-emc.com

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

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.

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) Moreover all generator functions may be computer controlled via the isolated optical interface.

Options	
PROTECTIVE COVER ON THE EQUIPMENT TOP	
With safety interlock switch, connected to the safety interlock loop, red and green warning lamps installed acc. VDE 0104	See figure
Type PA 503, Dimensions W * H * D	400 * 140 * 300 mm ³
Type PA 505, Dimensions W * H * D	400 * 250 * 400 mm ³
Software IPG-REMOTE, for remote control (Windows)	
With Impulse Recording Function (IRF)	
Incl. 5m long light guide and PC Ethernet interface	
Version without protective cover, current shunt R_m = 1Ω,	
BNC for measuring on the back	

TECHNICAL SPECIFICATIONS	
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	24 V=, 40 mA
Mains power	90V – 264V / 50/60 Hz
Dimensions of desk top case W * H * D	450*180*500 mm ³
Weight	18kg

Sales Partner:



ABSOLUTE EMC LLC.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com

TECHNICAL SPECIFICATIONS	IPG 605	IPG 1012	IPG1218	IPG 2025	IPG 2436
Generator section					
Peak value of impulse output voltage, adjustable, ± 3 %	0.2-6.25 kV	0.2-10 kV	0.25-12 kV	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	5 Joule	12 Joule	18 Joule	25 Joule	36 Joule
Energy storage capacitor Cs	0.25 μF			0.125 μF	
Resistor in series to the output HV1 Rs1	500Ω				
Resistor in series to the output HV2 Rs2	Standard 50Ω (opt. 40 oder 200Ω)			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 - 10000 pulses				
Repetition time, selectable	1-1000 s	3 -1000 s	3 -1000 s	5 - 1000 s	
CURRENT SENSE	built-in				
Threshold value, selectable	1-830μAs	1-1200 μAs	1-1500 μAs	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 connector				
Accessories: power cable, instruction manual					

Sales Partner:



ABSOLUTE EMC LLC.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com