

HV-IMPULSE GENERATOR

IPG 1218 IPG 1012 IPG 605

1.2 / 50 µs 0.25 kV - 12 kV 0.20 kV - 10 kV 0.20 kV - 6.25 kV



Picture: incl. Option PA 503

Surge testing acc to:

IEC 60664, VDE 0110, VDE 0411, VDE 0420

IEC 60335: 2010

etc. Insulation test of inductors and coils

High-Voltage Pulse Generators IPG 1218 / 1012 / 605 generate standard impulse voltages with waveform 1.2 / 50 μ s 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 - 6.25 / 10 / 12 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.

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 5" 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.



TECHNICAL SPECIFICATIONS	IPG 605	IPG 1012	IPG 121	
Mainframe				
Microprocessor controlled touch panel	5", 800X480, 24 bit			
Optical Ethernet Interface for remote control of the generator	optional			
Interface for saving reports		USB		
External Trigger input	switch			
External Trigger output	10 V at 1 kΩ			
Connector for external safety interlock loop	24 V =			
External red and green warning lamps		230 V, 60W		
Mains power		230 V, 50/60 Hz		
Dimensions of desk top case W * H * D		450*185*500 mm ³		
Weight	18 kg			
Generator section				
Peak value of impulse output voltage, adjustable	0.2-6.25 KV	0.2-10KV	0.25-12 k\	
Tolerance of output voltage amplitude	0.2-0.23 KV	± 5%	U.ZU-1Z K	
Waveform of impulse output voltage, acc. to IEC 60060	1.0		200/	
vvaverorm or impulse output voltage, acc. to IEC 60060	1.2	/ 50 -µs ± 30/	∠U70	
Max. stored energy	5 Joule	12 Joule	18 Joul	
Energy storage capacitor Cs	- Jouis	0.25 µF	10 0001	
Load capacitance CI		0.003 μF		
Resistor in series to the output HV1 Rs1		500 Ω		
Resistor in series to the output HV2 Rs2				
·	Standard 50Ω (opt. 40 or 200Ω) pos / neg / alt			
Output polarity, selectable				
Trigger: a) manual		push button		
b) external Trigger input	switch			
c) internal, automatic, adjustable via test procedure		1 – 1000 pulse		
Repetition time, selectable	1-1000 s	3-1000 paise	3-1000	
repetition time, solectable	1 1000 3	3 1000 3	3 1000	
Current Sense				
Threshold value, selectable	1-830 uAs	1-1200 µAs	1-1500 u/	
Current sense working range	1 kV - V-max			
Impulse voltage divider, built-in	ratio 1000:1 ± 2%			
HV output, HV-OUT	HV connector			
Mains synchronous triggering, phase shifting, digitally selectable	0 - 360 °, step 1°			
wains synchronous inggering, phase shirting, digitally selectable	J	300 , 3tcp	1	
Accessories: power cable, turn key, instruction manual				
Option :				
Protective cover on the equipment top	see figure on page 1			
With safety interlock switch connected to the safety interlock loop, red and green warning lamps installed	see figure on page 1			
PA 503, Dimensions:	400 * 150 * 250 mm³			
PA 505, Dimensions:	400 * 250 * 400 mm³			
Option :				
Software IPG-REMOTE, for remote control				
With Impulse Recording Function (IRF)				
(XP, WIN7) incl. 5m long light guide and PC Ethernet interface				
Option:				
Description of Remote control commands				
Incl. Ethernet PC-interface and 5m long light-guide				
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