

HV - IMPULSE GENERATOR

IPG 255

**Impulse voltage
test acc. to IEC 60255**

1.2/50 μ s, 0.5J

$R_s = 500 \Omega$

**0.8 kV, 1 kV, 1.5 kV, 2.5 kV
4 kV, 5 kV, 6 kV and 8 kV**



The High-Voltage Pulse Generator IPG 255 is designed for testing of impulse dielectric strength of components, insulation, air-and surface flash-over gaps of watt-hour meters, static relays etc. according to IEC 60255, EN 61036, VDE 0435 part 303.

The impulse test voltage amplitude can be set to different values:
0.8 kV, 1.0 kV, 1.5 kV, 2.5 kV, 4 kV, 5 kV, 6 kV and 8 kV.

In all cases the stored impulse energy is 0,5 J, the series resistor to the output is 500 Ω .
Positive or negative polarity of the test voltage can be selected.

A built-in voltage divider 1000:1 allows monitoring of the impulse output waveform during testing. The generator output possesses a current monitor detecting break-down or flash-over of the test object. The threshold of the current monitor is adjustable.

The peak value of the impulse voltage generated and the impulse charge ($\int i dt$) are shown in the display for each pulse and are outputted to the record file.

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.

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As an option the generator can be supplied with an safety test cover, mounted on the top of the generator, see picture above.

Technical specifications:	IPG 255
Main frame:	
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	10 V at 1 k Ω
External Trigger output	10 V at 1 k Ω
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
Microprocessor controlled touch panel	5", 800X480, 24 bit
Generator section:	
Peak value of impulse output voltage, selectable	0.8 / 1.0 / 1.5 / 2.5 / 4 kV 5 / 6 / 8 kV, +0 %/-10 %
Waveform of impulse output voltage, acc. to IEC 60 stored energy	1.2/50 μ s \pm 30 %/ \pm 20 % 0.5 J
Resistor in series to the output R _S	500 Ω
Output polarity, selectable	pos./neg.
Charging time	< 2 sec
Trigger : a) manual	push button
b) external Trigger input	10 V / 1 k Ω
c) internal, automatic	test procedure
Number of pulses, selectable	1 - 1000 Impulse
Repetition rate, max.	12 Imp./min
Impulse voltage divider, built-in	ratio = 1000:1 \pm 2 %
CURRENT SENSE, threshold value, selectable	1 - 250 μ As
Option Safety test cover PA503	
on the equipment top, PA 503, with safety interlock switch connected to the safety interlock loop, red and green warning lamps installed.	
Dimensions: W * H * D, ca.	400 * 150 * 250 mm ³