

IPG 255

HV - IMPULS GENERATOR

Impulse voltage 1.2/50 μ s, 0.5J, Rs = 500 Ω

0.8 kV, 1 kV, 1.5 kV, 2.5 kV

4 kV, 5 kV, 6 kV und 8 kV



Picture: incl. option PA503

According to

IEC 60255

EN 61036

VDE 0435 part 303

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 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 peak value of the impulse voltage generated and the impulse charge (Jidt) are shown in the display for each pulse and are outputted to the record file.

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.

The generator excels by its compact design, simple handling and precise reproducibility of test impulses.

Options	IPG 255
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
Typ PA 503, Dimensions W * H * D	400 * 140 * 300 mm ³
Typ PA 505, Dimensions W * H * D	400 * 250 * 400 mm ³
Software IPG-REMOTE, for remote control	
With Impulse Recording Function (IRF) (XP, WIN7, WIN10) incl. 5m long light guide and PC Ethernet interface	

TECHNICAL SPECIFICATIONS	IPG 255
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
Generator section	
Peak value of impulse output voltage, selectable	0.8 / 1.0 / 1.5 / 2.5 / 4 / 5 / 6 / 8 kV, +0 %/-10 %
Waveform of impulse output voltage, acc. to IEC 60	1.2/50 μ s \pm 30 % / 20 %
Max. stored energy	0.5 Joule
Resistor in series to the output R _s	500 Ω
Output polarity, selectable	pos / neg / alt
Charging time	< 2 sec
Trigger :	
a) manual	push button
b) external Trigger input	switch
c) internal, automatic, Number of pulses, selectable	1 - 1000 Impulse
Repetition rate, max.	1 - 1000 s
Impulse voltage divider, built-in	ratio = 1000:1 \pm 2 %
CURRENT SENSE, threshold value, selectable	1 - 250 μ As