

HV-IMPULSE GENERATOR IPG 2025 IPG 2436

1.2 / 50 μ s
2 kV - 20 kV /
2 kV - 24 kV

**Surge testing acc to:
IEC 60664, IEC 60335,
VDE 0110, VDE 0411, VDE 0420, etc.
Insulation test of inductors and coils**



Picture: incl. Option PA 503

The HV - Impulse generators IPG 2025 and IPG 2436 create 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 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.

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.

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

The software program CE-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).

| TECHNICAL SPECIFICATIONS | IPG 2025 | IPG 2436 |
|--|---------------------------------|--------------|
| Mainframe | | |
| Microprocessor controlled touch panel | 5", 800x480, 24 bit | |
| Optical Ethernet Interface for remote control of the generator | optional | |
| Interface for saving reports | USB | |
| 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 | 22 kg | |
| Generator section | | |
| Peak value of impulse output voltage, adjustable | 2 - 20 kV | 2 - 24 kV |
| Tolerance of output voltage amplitude | ± 5% | |
| Waveform of impulse output voltage, acc. to IEC 60060 | 1.2 / 50 -µs ± 30% / 20% | |
| Max. stored energy | 25 Wsec | 36 Wsec |
| Energy storage capacitor Cs | 0.125 µF | |
| Resistor in series to the output HV1 Rs1 | 200 Ω | |
| Resistor in series to the output HV2 Rs2 | 500 Ω | |
| Output polarity, selectable | pos / neg / alt | |
| Trigger: a) manual | push button | |
| b) external Trigger input | 10 V / 1 kΩ | |
| c) internal, automatic, adjustable via test procedure | 1 - 1000 pulses | |
| Repetition time, selectable | 5 - 1000 sec | |
| Current Sense | | |
| Threshold value, selectable | 1 - 1250 µAs | 1 - 1500 µAs |
| Impulse voltage divider, built-in | ratio 1000:1 ± 2% | |
| HV output, HV-OUT | HV plug | |
| Accessories. mains cable, keys, user manual | | |
| Option | | |
| Protective cover on the equipment top, PA 503 | see figure on page 1 | |
| With safety interlock switch connected to the safety interlock loop, red and green warning lamps installed | | |
| Dimensions: W * H * D | 400 * 150 * 250 mm ³ | |
| Option | | |
| Enlarged protective cover, PA 505 | | |
| With safety interlock switch connected to the safety interlock loop, red and green warning lamps installed | | |
| Dimensions: W * H * D | 400 * 250 * 430 mm ³ | |
| Option | | |
| Software IPG-REMOTE, for remote control | | |
| With Impulse Recording Function (IRF) | | |
| For XP or WIN7, incl. 5m long light guide and PC Ethernet interface | | |