

# High-Voltage Pulse Generator

## PG 4-641



HV - Impulse generator PG 4-641 creates standard voltage and current pulses with wave form 10 / 160  $\mu$ s. Output voltage is adjustable up to 3600 V, the maximum short circuit current amplitude is 480 A peak. 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 short circuit current wave can be monitored by use of the built-in shunt.

The generator features a microprocessor controlled user interface and display for ease of use. The microprocessor allows the user to execute either standard test routines, or a 'user defined' test sequence. The test parameters, which are shown on the built-in display, are easily adjusted by means of the rotary encoder.

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

Sales Partner:



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**Mainframe:**

Microprocessor controlled LCD module	8*40 characters
Parallel printer interface for on-line documentation	25-way 'D' connector
Optical-interface for remote control of the generator	built-in
External Trigger input	10 V at 1 kΩ
External Trigger output	10 V at 1 kΩ
Diagnostic input for monitoring of the test device	four channels, 5 V - Level
Connector for external safety interlock loop and external red and green warning lamps acc. to VDE 0104	24 V = 230 V, 60 W
Mains power	230 V, 50/60 Hz
Dimensions: 19" desk top case W * H * D	450*410*520 mm <sup>3</sup>
Weight	28 kg

**Generator section:**

Peak value of impulse output voltage, adjustable,	0 - 3600 V, ± 10%
Waveform of impulse output voltage: Front time	10 μs, + 0 / -5 μs
Duration	160 μs, +160 / -0 μs
Peak value of impulse short circuit output current	480 A, ± 10%
Waveform of short circuit current: Front time	10 μs, + 0 / -5 μs
Duration	160 μs, ± 32 μs
Max. stored energy	600 Wsec
Energy storage capacitor Cs	80 μF
Output polarity, selectable	pos./neg.
Charging time	20 sec
Trigger: a) manual	push button
b) external Trigger input	10 V / 1 kΩ
c) internal, automatic	test procedure
Impulse voltage divider, built-in	ratio 1000:1 ± 2%
Impulse current shunt, built-in	5 mΩ ± 2%

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