SURGE CURRENT GENERATOR

PG 6 - 400
PG 6 - 200

Surge current

8 / 20 µs

0.4 - 10 kA
0.2 - 5 kA

acc. to IEC 60060, VDE 0432

The high current pulse generators PG 6-400 / PG 6-200 are designed for surge testing of electrical components, over-voltage protectors and electronic circuits acc. to IEC, VDE etc. They generate standard impulse currents with waveform 8/20 µs. Short circuit output current amplitude is selectable from 0.2 up to 10 kA by adjustment of the charging voltage of the internal energy storage capacitor.

The polarity of the output current is selectable. Positive, negative or alternating polarity of the output current can be pre selected.
The pulse-forming network contains a high pulse-fidelity current viewing resistor for measurement of the output current amplitude and waveform with a scope.

The impulse current output is located at the top of the equipment and provides high-current connectors for a plug-in test adapter. A dielectric cover with safety interlock protects the high-voltage output terminals. Upon lifting of the cover, switching-off of the generator or mains blackout a built-in high-voltage grounding switch discharges the test object and the internal energy storage capacitor.

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	PG 6-200 / PG 6-400
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 trigger input /output	10 V at 1 kΩ
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	25 kg
Pulse forming network: surge current 8/20 µs	**5 kA / 10 kA**
Charging voltage, adjustable	0.2 - 6.25 kV
Surge current, (short circuit at the output) PG 6-400	0.4 - 10 kA ± 10 %
Surge current, (short circuit at the output) PG 6-200	0.2 - 5 kA ± 10 %
Waveform acc. to IEC 60060, VDE 0432	8 / 20 µs ± 20%
Polarity of output current, selectable	pos / neg /alt.
Max. stored energy	200 / 400 Joule
Charging time for max. charging voltage approx.	10s / 20 s
High current output terminals	6 mm Ø, connector
Monitor output for output current PG 6-400	10V ≡ 10 kA ± 5 %
Monitor output for output current PG 6-200	10V ≡ 5 kA ± 5 %
Safety test cover	
mounted on the top of the equipment, safety interlock loop connected to the limit switch, red and green warning lamps installed	
Dimensions W * H * D	400 * 150 * 250 mm^3
Option	
PC Software for remote control of the generator, (XP,7 ,8). PC Ethernet Interface USB/RS232, optically isolated and light guide, 5 m long.	
Monitor output for output voltage	ratio 1000:1 ± 2%