

SURGE CURRENT GENERATOR

PG 6 - 400

PG 6 - 200

Surge current

8 / 20 μ s

0.4 - 10 kA

0.2 - 5 kA

acc. to IEC 60, 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 μ s. 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 high current pulse generators PG 6-400 / PG 6-200 feature a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to operate the generator manually or to generate, save and execute a 'user defined' test sequence. The test parameters, charging voltage, polarity, number of pulses and pulse repetition time, which are shown on the built-in display, are easily adjusted by means of the rotary encoder.

A standard parallel interface provides the ability to print a summary of the test parameters whilst testing is being carried out.

The generator excels by their compact design, simple handling and precise reproducibility of test impulses. Moreover all generator functions may be computer controlled via the isolated optical interface.

Technical specification:
PG 6-400 / PG 6-200
Mainframe:

Micro processor controlled LCD display			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
Connector for external safety interlock loop and external red and green warning lamps acc. to VDE 0104			24 V = 230 V, 60W
Mains power			230 V, 50/60 Hz
Dimensions:	desk top case	W * H * D	453*160*520 mm ³
Weight			25 kg

Pulse forming network:	surge current	8/20 μs,	10 kA / 5 kA
Charging voltage, adjustable			0.25 - 6 kV
Surge current, (short circuit at the output)		PG 6-400c	0.4 - 10 kA ± 10 %
Surge current, (short circuit at the output)		PG 6-200c	0.2 - 5 kA ± 10 %
Waveform acc. to IEC 60, VDE 0432			8 / 20 μs ± 20%
Polarity of output current, selectable			pos/neg
Max. stored energy			400 / 200 Joule
Charging time for max. charging voltage			< 20s / < 10 s
High current output terminals			6 mm Ø, connector
Monitor output for output current		PG 6-400c	10V ≡ 10 kA ± 5%
Monitor output for output current		PG 6-200c	10V ≡ 5 kA ± 5%

Safety test cover:

mounted on the top of the equipment,
safety interlock loop connected to the limit switch,
red an green warning lamps installed

Dimensions:	W * H * D	400*150*250 mm ³
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