

PG 6-200 / PG 6-400

HV – SURGE CURRENT GENERATOR

Surge testing 8/20 μ s

0.2-6.25 kV

0,16 – 5 kA/0,32-10 kA



According to

IEC 60060-2

IEC 62475-2

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

Options	PG6-200	PG6-400
PROTECTIVE COVER ON THE EQUIPMENT TOP		
With safety interlock switch, connected to the safety interlock loop, red and green warning lamps installed acc. CDE 0104		
Type PA 503, Dimensions W * H * D	400 * 140 * 300 mm ³	
Type PA 505, Dimensions W * H * D	400 * 250 * 400 mm ³	
Monitor output for output voltage	ratio 1000:1 ± 2%	
Software CE-REMOTE, for remote control		
With Impulse Recording Function (IRF)		
(XP, WIN7, WIN10) incl. 5m long light guide and PC Ethernet interface		

TECHNICAL SPECIFICATIONS	PG6-200	PG6-400
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	230V / 60 W	
Mains power	90V – 264V / 50/60 Hz	
Dimensions of desk top case W * H * D	450*180*500 mm ³	
Weight	25kg	
Generator section		
Charging voltage, adjustable	0.2-6.25 kV	
Waveform of impulse output voltage, acc. to IEC 60060, VDE 0432	8/20 µs ± 20 % / 20 %	
Surge current, (short circuit at the output)	5kA	10kA
Max. stored energy	200 J	400 J
Output polarity, selectable	pos / neg / alt	
Monitor output for output current	1mΩ ± 2 %	
Trigger :		
a) manual	push button	
b) external Trigger input	Switch	
c) internal, automatic, adjustable via test procedure	1 - 1000 pulses	
Repetition time, selectable	2-1000s	2-1000s
Charging time for max. charging voltage approx	10s	20s
Mains synchronous triggering, phase shifting	0 - 359°, step 1°	
HV output, HV-OUT	6 mm Ø, connector	
accessories:	power cable, turn key, instruction manual	