

HIGH CURRENT PULSE GENERATOR

PG 5-4500

Pulse forming network
250 A, 1.5/5000 μ s

Output current
2 * 5 - 125 A

Internal resistor
20 Ω / 2* 40 Ω



The high current pulse generator PG 5-4500 has been designed for pulse-current testing of electric components, overvoltage protectors and electronic circuits acc. IEC, VDE etc.

The basic version generates impulse currents with waveform 1.5/5000 μ s and peak value 250 A (2 x 125A) . In addition to that, the energy storage capacitance is switchable from 100 F to 400 F.

The pulse-forming network contains a pulse-fidelity current viewing resistor for monitoring the output waveform.

The PG 5-4500 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.

Technical specification	PG 5-4500
Mainframe control unit:	
Microprocessor controlled touch panel	5", 800X480, 24 bit
Optical Ethernet Interface for remote control of the generator	optional
Interface for saving reports	USB
External Trigger input	Switch
External Trigger output	10 V at 1 k Ω
Connector for external safety interlock loop	24 V =
external red and green warning lamps acc. to VDE 0104	230 V, 60W
HV unit:	
Charging voltage, adjustable	0.2 - 5 kV \pm 2 %
Accuracy of the test current	< 2%
Energy storage capacitor, selectable	4 * 100 μ F
Charging time, max.	< 60 sec
max. repetition rate	1/100 sec
Connection for ground rod	M 6
Ground rod	0.7 m long
Mains power	230 V, 50/60 Hz, 1250 VA
Pulse forming network	
	250 A, 1.5/5000 μs
Waveform of short circuit output current	1.5 / 5000μs \pm20%
Peak output current, adjustable by preset of charging voltage	2 * 5 - 125 A \pm 5 %
Polarity of pulse output current, selectable	POS/NEG
Energy switchable 100 – 400F	3 steps
Monitor output for pulse output current, built-in	100 m Ω , 1.0 MHz
Pulse current output: plug-in terminals on the rear panel	HV Plug
Dimensions	W * H * D
	600*800*800 mm ³
Weight	270 kg
Option:	
Test chamber on top, build in 19" rack, with security glass door, safety interlock protects the high-voltage output terminals. Upon opening of the door or switching-off of the generator, the HV output switches off. Test space ca.	W*H*D
	470*530*490 mm ³