SURGE GENERATOR
PG 2 - 750

10/160 µs, 1.6 kV, 4 * 100 A
10/560 µs, 800 V, 2 * 100 A

acc. to FCC, Part 68.302,
ANSI / TIA - 968 - A - 2002

optional:
10/1000µs, 1 kV, 2*100 A
acc. to GR-1089-CORE

The surge current generator PG 2-750 delivers pulse currents with the waveform 10/160µs and 10/560µs. Optionally an additional waveform, 10/1000µs can be integrated. The generator has four or two surge current outputs.

The peak value of the surge current at each output can be set to (1 – 100)A by adjusting the charging voltage.

The generator features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to either execute standard test routines, or a ´user defined´ test sequence. The test parameters 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 PG 2-750 excels by its compact design, simple handling and precise reproducibility of test impulses. The output current- and voltage waveforms, due to built-in sensors, can be recorded via separate signal outputs for current and voltage. Moreover, all generator functions may be computer controlled via the isolated optical interface.

Technical specification:	**PG 2-750**
Main frame:	
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	4 channels, 5 V - Level
Connector for external safety interlock loop	24 V =
and external red and green warning lamps acc. to VDE 0104	230 V, 60W
Mains power	230 V, 50/60 Hz
Dimensions: desk top case W * H * D	453*320*580 mm^3
Weight	35 kg

High-Voltage Pulse Generator:

Pulse current outputs:	Safety connectors on the rear panel	4 mmØ
Pulse voltage divider, built-in		1000:1 ± 2%
Pulse generation:	a) manual trigger	push button
	b) external trigger input	10V/1kΩ
	c) internally, automatically	test program

PFN 1: Pulse forming network 10/160µs **FCC 68 / TIA 968**

Charging voltage, adjustable		0 - 1.8 kV
Max. charging time		< 10 sec
Polarity of pulse output current, swichable		POS/NEG/ALT
Peak current value, adjustable via charging voltage		
Waveform:	short circuit current 4*100 A ± 5 %	10µs -20% / 160µs +20%
Waveform:	short circuit current 1.6 kV ± 10 %	10µs -50% / 160µs +50%

PFN 2: Pulse forming network 10/560µs **FCC 68 / TIA 968**

Charging voltage, adjustable		0 - 900 V
Max. charging time		< 10 sec
Polarity of pulse output current, swichable		POS/NEG/ALT
Peak current value, adjustable via charging voltage		
Waveform:	short circuit current 2*100 A ± 5 %	10µs -20% / 560µs +20%
Waveform:	short circuit current 800 V ± 10 %	10µs -50% / 560µs +50%

Option 2:

PFN 3: Pulse forming network 10/1000µs **GR-1089-CORE**

Charging voltage, adjustable		0 - 1000 V
Max. charging time		< 20 sec
Polarity of pulse output current, swichable		POS/NEG/ALT
Peak current value, adjustable via charging voltage		
Waveform:	short circuit current 2*100 A ± 5 %	10µs -20% / 1000µs +20%
Waveform:	open loop voltage 1000 V ± 10 %	10µs -50% / 1000µs +50%