

## Data Sheet



### Surge voltage generator SSG 1100 / SSG 1500 / SSG 2100 / SSG 3000

Surge voltage generators enable accurate location of high resistance, low resistance and intermittent faults on high, medium and low voltage cables.

Output voltage is continuously adjustable in the ranges 0 - 8 kV, 0 - 16 kV and 0 - 32 kV.

Discharging of high voltage capacitors into the faulty cable can be made continuously or cyclically via surge switch. When the instrument is switched off, the connected cables and the internal surge capacitors are automatically discharged separately from each other.

#### Features

- high surge voltage up to 32 kV
- voltage is adjustable continuously
- 3 range kV-meter direct reading
- high surge energy in each voltage range
- automatic discharging device
- electromagnetically operated surge switch with heat resistant tungsten electrodes
- security control according to VDE 0104
- output socket for optional remote Emergency-Off unit with signal lamps
- 4 selectable operating programmes:
  - single pulse
  - low impulse frequency
  - high impulse frequency
  - DC output
- thermal overload protection
- control output for coupling of system SA 32 (SIM-MIM)

## Technical data

	SSG 1100	SSG 1500	SSG 2100	SSG 3000
mains supply	220-230 V	220-230 V	220-230 V	220-230 V
Option:	110-120 / 240 V with external autotransformer or isolating transformer	110-120 / 240 V with external autotransformer or isolating transformer	110-120 / 240 V with external autotransformer or isolating transformer	110-120 / 240 V with external autotransformer or isolating transformer
mains frequency	45 Hz to 60 Hz	45 Hz to 60 Hz	45 Hz to 60 Hz	45 Hz to 60 Hz
max. power consumption (at short circuit)	3.000 VA	5.000 VA	5.000 VA	5.000 VA
max. output voltage	32 kV	32 kV	32 kV	32 kV
output voltage range	0 - 8 kV 0 - 16 kV 0 - 32 kV	0 - 8 kV 0 - 16 kV 0 - 32 kV	0 - 8 kV 0 - 16 kV 0 - 32 kV	0 - 8 kV 0 - 16 kV 0 - 32 kV
max. surge energy	1100 Ws	1536 Ws	2048 Ws	3000 Ws
impulse frequency	10, 20 Imp. / min	20, 30 Imp. / min	10, 20 Imp. / min	10, 15 Imp. / min
max. DC output current voltage range 0 - 8 kV voltage range 0 - 16 kV voltage range 0 - 32 kV	560 mA 280 mA 140 mA	850 mA 425 mA 210 mA	850 mA 425 mA 210 mA	850 mA 425 mA 210 mA
precision of the kV-meter	1,5	1,5	1,5	1,5
operating temperature range	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to + 50 °C
weight without housing	79 kg	120 kg	126 kg	147 kg
dimension of the housing (W x H x D)	approx. 514 x 645 x 730 mm	approx. 514 x 645 x 730 mm	approx. 514 x 645 x 730 mm	approx. 514 x 645 x 880 mm

## Delivery includes

- Surge voltage generator without accessories
- Mains connection cable (2,5 m)
- HV connection cable (4 m)
- Ground line (10 mm<sup>2</sup>, 4 m)
- Jumper plug for Emergency-Off socket
- User manual
- for stand alone use a 19" housing is required (see below options)

## Options

- 19" housing 14U; without carrying bars
- 1 pair of heavy duty carrying bars for 19" housing
- Set of wheels for 19" housing
- Discharge and earth rod GDR 40-250; 600 Ws

