

## SSG 500

### BAUR Surge voltage generator



The figure is illustrative.

### Reliable cable fault location

- Ideal for low voltage cable
- High surge energy in all voltage steps
- Robust construction - high reliability

The compact SSG 500 surge voltage generator is used to generate surge and DC voltage and can be used for the pre-location and pin-pointing of cable faults in buried power cables, in particular low voltage cables.

The SSG 500 surge voltage generator is arranged in a 19" housing. Maximum safety is achieved with the electrical safety control unit, the automatic discharge unit, the fully enclosed design and separate protective and operational earthing.

The device generates surge voltages of 4 / 8 / 16 kV or 3 / 6 / 12 kV. In surge mode, the charge of the HV capacitors can be discharged to the faulty cable manually or automatically, as required, at a rate of 10 or 20 surges/min. When the device is switched off, the HV output is automatically discharged.

#### Functions

- Generates surge and DC voltage
- Cable and cable sheath testing with DC voltage up to 16 kV
- The following pin-pointing methods are possible in combination with the BAUR protrac® pin-pointing system:
  - Acoustic pin-pointing
  - Step voltage method

#### Features

- 6 selectable surge voltages up to 16 kV
- High output current up to DC 480 mA
- Automatic surge mode or manual triggering of voltage surges
- Rapid surge sequence up to 20 surges/min
- Surge energy up to 512 J (can be switched to 56 %)
- Electromagnetically actuated surge switch
- Voltmeter with 3 display ranges
- Safety control unit in compliance with EN 50191
- Integrated automatic discharge unit
- Overcurrent protection switch with thermal and magnetic triggering
- Connection option for external emergency off unit with signal lamps
- Can be installed in cable fault location systems

## Technical data

Output voltage	
Max. DC voltage	16 kV
Surge voltage	4 / 8 / 16 kV
Switchable to:	3 / 6 / 12 kV (56 % of the surge energy)
Surge energy	<ul style="list-style-type: none"> <li>▪ 512 J @ 4 / 8 / 16 kV</li> <li>▪ 288 J @ 3 / 6 / 12 kV</li> </ul>
Max. output current (in DC mode)	Depending upon the position of the step selector switch: <ul style="list-style-type: none"> <li>▪ DC 480 mA @ 4 kV position</li> <li>▪ DC 240 mA @ 8 kV position</li> <li>▪ DC 120 mA @ 16 kV position</li> </ul>
Surge sequence	10 or 20 pulses/min
Display range of the voltmeter	<ul style="list-style-type: none"> <li>▪ 0 – 4 kV</li> <li>▪ 0 – 8 kV</li> <li>▪ 0 – 16 kV</li> </ul>
Accuracy of the voltmeter	1.5 %

## Standard delivery

- SSG 500 surge voltage generator, incl. HV connection cable, 5 m (fix mounted)
- Earth cable, 3 m, with earth terminal
- Mains supply cord, 2.5 m
- Jumper plug for external emergency off unit
- User manual

General	
Power supply	220 – 230 V, 50/60 Hz
Options:	<ul style="list-style-type: none"> <li>▪ 110 – 120 V, 50/60 Hz (with external auto transformer)</li> <li>▪ 240 V, 50/60 Hz (with conversion kit for mains supply)</li> </ul>
Max. power consumption	1,500 VA (in the event of short circuit)
Ambient temperature (operational)	-10°C to +50°C
Storage temperature	-20°C to +60°C
Dimensions (W x H x D)	Approx. 500 x 290 390 mm
Weight	Approx. 48 kg
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), EN 60068-2-ff Environmental testing

## Accessories and options

- Hinged stand for 19" devices, height 5 RU (222 mm)
- GR 40 earth rod
- GDR 40-250 discharge and earth rod
- External auto transformer, 110/230 V; 1.5 kVA
- Conversion kit for 240 V mains supply
- External emergency off unit with signal lamps, incl. connection cable, 25 m, on hand drum
- External emergency off unit with signal lamps, incl. connection cable, 50 m, on hand drum



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