

Surge generator 12 kV

The 12 kV surge generator is used for cable fault location in low and medium voltage networks. It generates high energy surge waves up to a voltage of 12 kV. It is equipped with three motorised switchable surge levels for the use in cable networks with low nominal voltage. The maximum energy of 1000 J is available in all levels, 3, 6 and 12 kV. The prelocation method based on ART

(Arc Reflection Technique) is integrated in the version PS-3/6/12-A1000 for the prelocation of high impedance cable faults.

The 12 kV surge generator is available in two versions:

- Basic version PS-3/6/12-E1000
- ART version PS-3/6/12-A1000



- Practical voltage levels with high energy in each level
- Simplest operation

FEATURES

- simple operation, compact design
- motor controlled switch for the selection of the operating modes and surge voltage levels
- automatic discharge of the cable under test and the system
- switchable surge voltage levels 0–3, 0–6, 0–12kV
- electronically monitored and continuously adjustable surge rate
- single shot mode
- zero position forced for switching on high voltage according to VDE standard
- version PS 3/6/12-A1000: integrated prelocation method based on ART (Arc Reflection Technique)

SPECIFICATIONS: PS-3/6/12

Operating modes

- DC test
 - output voltage 0–12 kV
 - output current $I_n = 50 \text{ mA}$, $I_k = 160 \text{ mA}$
- surge
 - surge voltage 0–3 / 0–6 / 0–12 kV
 - surge power 1000 J each surge layer
 - surge pulse $3.5 \text{ s} \leq 10 \text{ s}$ or single shot
- version PS-3/6/12-A1000:
 - surge ART surge pulse single shot

Power supply

- mains voltage 230 V, 50/60 Hz
- power consumption 2000 VA

Environmental

- operating temperature $-25 \text{ °C} - +55 \text{ °C}$
- IP rating IP 40

Mechanical data

- dimensions (LxWxH) 443 x 525 x 702 mm
- weight approx. 86 kg
- version PS-3/6/12-A1000:
 - weight approx. 94 kg

SCOPE OF SUPPLY

- surge generator PS 3/6/12-E1000, or PS 3/6/12-A1000
- set of connecting cables
- set of connecting clamps
- user manual

Optional accessories

- acoustic pinpointing system Kamphone
- InterFlex 130 (for Version PS 3/6/12-A1000)