

Surge generator 24 kV

The 24 kV surge generator is used for cable fault location in low and medium voltage networks. It is equipped with three motorised switchable surge levels for use in cable networks with low nominal voltage. The maximum energy of 1000 J is available in all three levels, 6, 12 and 24 kV. The prelocation method based on ART (Arc Reflection Technique) is integrated in the versions PS 6/12/24-A for the prelocation of high impedance cable faults.

The 24 kV surge generator is available in four versions:

- Basic versions PS 6/12/24-E1000, divided as PS 6/12/24-E1002
- ART versions PS 6/12/24-A1000, divided as PS 6/12/24-A1002



- High mobility due to the wheels
- Various versions available

FEATURES

- easy transport due to integrated wheels
- motor controlled switch for selection of the operating modes and surge voltage levels 0-6, 0-12, 0-24 kV
- automatic discharge of the cable under test and the system
- continuously adjustable surge rate and single shot mode
- zero position forced for switching on high voltage
- version PS 6/12/24- A1000: integrated prelocation method based on ART (Arc Reflection Technique)
- versions PS 6/12/24-E1002 and PS 6/12 24-A1002: optimised for installation in vehicles by separating the operating and the HV unit.

SPECIFICATIONS: PS-6/12/24

Operating modes

- DC test
 - output voltage 0 – 24 kV
 - output current $I_n = 30 \text{ mA}$, $I_k = 220 \text{ mA}$
- surge
 - surge voltage 0 – 6 / 0 – 12 / 0 – 24 kV
 - surge power 1000 J each surge layer
 - surge pulse $3.5 \text{ s} \leq 10 \text{ s}$ or single shot
 - surge ART single shot

Power supply

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

Environmental

- operating temperature $-25^\circ\text{C} - +55^\circ\text{C}$

Mechanical data

- dimensions (LxWxH) 430 x 516 x 990 mm
- weight PS 6/12/24-E1000 approx. 105 kg
- weight PS 6/12/24-A1000 approx. 115 kg
- version PS 6/12/24-(E)A1002:
 - control unit (L x W x H) 255 x 516 x 251 mm
 - high voltage unit (L x W x H) 570 x 516 x 780 mm
- version PS 6/12/24-(E)A1002:
 - weight control unit ca. 15 kg
 - high voltage unit E-version approx. 90 kg
A-version approx. 100 kg

SCOPE OF SUPPLY

- surge generator PS 6/12/24
- versions -E1002 and -A1002 separated:
 - control unit and high voltage unit
- set of connecting cables
- set of connecting clamps
- user manual
- Optional accessories
 - acoustic pinpointing system Kamphone
 - InterFlex 130
(for versions PS 6/12/24-A1000 and PS 6/12/24-A1002)