



HPA 100 AC HPA 130 DC

**Powerful High-Voltage test system up to
100 kV_{rms} AC 50 Hz**

Benefits

- ▶ **Powerful test and burning system**
- ▶ **Continuous testing with AC voltages up to 100 kV_{rms} at 5 kVA**
- ▶ **Own noise level below 1pC**
- ▶ **Built-in overcurrent protection**
- ▶ **DC testing up to 130 kV with optional rectifier**



System description

The AC Test Set HPA 100 is a powerful test set. The unit has been designed for installation in cable test van and can be used for testing of cable systems and for burning down high-resistance cable faults with a high breakdown voltage. The test set can be equipped with a rectifier attachment for DC testing up to 130 kV. Since the own noise level of the test system is below 1pC, it is also suitable as a voltage source for PD measurements.

The control unit HSG 10 - 1 is used for controlling the HTR 100 high voltage transformer. The unit consist of a variac, test meters for displaying the current and voltage, operational components for the high voltage spark gap, a timer for the test duration and a safety circuit.

The low voltage winding can be continuously excited from zero to the maximum value so that a certain output is available for a pre-determined period. The operating duration depends on the application, ranging from a few minutes to continuous operation. The test transformer is single-pole insulated and mounted in an insulated cylinder with top and bottom flanges. The insulation material is primarily oil impregnated paper.

Scope of delivery

- ▶ Control unit
- ▶ Transformer
- ▶ LV and HV cable set
- ▶ Earthing stick 150 kV

Technical Data

Control Unit HSG 10 - 1

Power consumption P _n	5 kVA
Power consumption short-time P _k (1 h)	7.5 kVA
Primary voltage	220 V
Outgoing voltage	0 ... 250 V
kV-Measuring range (alternative)	50 / 100 / 150 kV
Dimensions	520 x 430 x 465 mm
Weight	75 kg

Transformer HTR 100

Rated voltage	100 kV AC
Power consumption P _n	5 kVA
Power consumption short-time P _k (1 h)	7.5 kVA
Frequency	50 Hz or 60 Hz
Short circuit voltage	approx. 5 %
PD at rated voltage	< 1pC
Weight	approx. 225 kg

Option

- ▶ HGL 130 rectifier for 130 kV DC testing