

HPA 100 / 110 / 120 AC / HPA 130 DC
Powerful High-Voltage test system
up to 100 / 110 / 120 kV_{RMS} AC / 130 kV DC

Megger[®]



- Continuous testing with AC voltages up to 100 kVRMS at 5 kVA
- Suitable for sensitive PD measurements
- Built-in overcurrent protection
- DC testing up to 130 kV with optional rectifier

DESCRIPTION

The AC Test Set HPA 100 is a powerful test set. The unit has been designed to test low to medium types of capacitive objects such as transformers, switchgears, isolated bus-bars and bushings.

The test set can be equipped with a rectifier attachment for DC testing up to 130 kV. Since the system's own noise level is below 1pC, it is also suitable as a voltage source for PD measurements.

The two piece design allows the operator to use the unit at a safe distance. The control unit is used for controlling the high voltage transformer. The unit consists of a variac, current/ voltage display instruments, 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.

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TECHNICAL DATA*

Power consumption P_n	5 kVA
Power consumption short-time P_k (1h)	7.5 kVA
Input voltage	230 V/50 ... 60 Hz
Output voltage	0 ... 100 kV _{RMS} AC (HPA 100) 0 ... 110 kV _{RMS} AC (HPA 110) 0 ... 120 kV _{RMS} AC (HPA 120) 0 ... 130 kVDC'
Measuring range	0 ... 100 kV _{RMS} AC 0 ... 150 kVDC
Precision	2.5 %
Output current	0 ... 50 mA _{RMS} continuous, 75 mA _{RMS} short circuit current (1 h)
Measuring range	0 ... 1/0 ... 10/0 ... 100 mA _{RMS} AC 0 ... 0.1/0 ... 1/0 ... 10/0 ... 100 mA DC
PD at rated voltage	< 1 pC
Control unit HSG 10-1	
Weight	75 kg / 165 lbs.
Dimensions	520 x 430 x 465 mm 20.5 in. x 16.9 in. x 18.3 in.
Transformer HTR 100	
Weight	225 kg / 496 lbs.
Dimensions	540 x 785 x 540 mm 20.5 in. x 30.9 in. x 21.3 in.

FEATURES

- High power AC test set
- Ideal for testing of HV-components such as switchgear, bus-bars etc.
- Suitable for sensitive PD measurements
- Two piece design

SCOPE OF DELIVERY

- Control unit HSG 10-1
- Transformer HTR 100/ 110/ 120
- Set of cables HPA 100, 5 m
- Earthing stick 150 kV

ORDERING INFORMATION

Product	Order no.
HPA 100 (AC 100 kV _{RMS} only) 5 kVA output power, 10 kVA on request	820004061
HPA 110 (AC 110 kV _{RMS} only) 5 kVA output power, 10 kVA on request	1004466
HPA 120 (AC 120 kV _{RMS} only) 5 kVA output power, 10 kVA on request	1005226
HPA 130 (AC 100 kV _{RMS} / DC 130 kV) 5 kVA output power, 10 kVA on request	813208
Options:	
HV connection cable 3 m (unshielded)	2013483
HV connection cable 5 m (unshielded)	2013484
HV connection cable 10 m (unshielded)	2013485

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