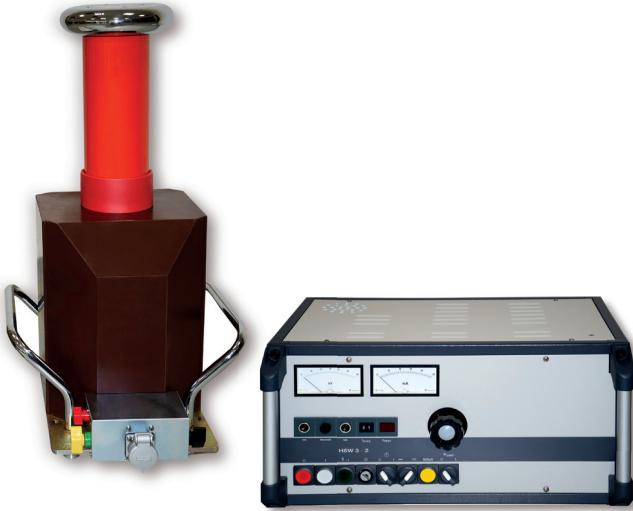


High-voltage test system HPG 50 ... 110-H

Compact and powerful AC test systems



- **Compact, maintenance free, cast-resin high-voltage transformers**
- **Separate control and HV-unit**
- **Voltage continuously adjustable**
- **Powerful system: 1,2 kVA continuous operation, up to 3 kVA 60 min. short-time operation**
- **DC testing via rectifier**

DESCRIPTION

The AC voltage test sets HPG 50, 80 and 110-H are suitable for 50 / 60 Hz AC testing of test objects with a low capacity. In addition to the 50 / 60 Hz AC testing these units can be upgraded to a DC test set by mounting the rectifier attachment on top of the transformer.

Typical application areas:

- Testing of switchgear
- Testing of voltage and current-transformers
- Testing of MV plant/ component testing
- Testing of cables (DC)

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.

All HPG test systems at a glance:

- HPG 50-H, testing up to 35 kV_{RMS} / DC-testing up to 50 kV
- HPG 80-H, AC testing up to 58 kV_{RMS} / DC-testing up to 80 kV
- HPG 110-H, AC testing up to 78 kV_{RMS} / DC-testing up to 110 kV

TECHNICAL DATA*

	HPG 50-H	HPG 80-H	HPG 110-H
Power consumption P_N	1.2 kVA	1.2 kVA	1.5 kVA
Power consumption short-time P_k (1h)	3 kVA	2.5 kVA	3.5 kVA
Input voltage		230 V / 50 ... 60 Hz	
Output voltage	0 ... 35 kV _{rms} AC 0 ... 50 kV DC	0 ... 58 kV _{rms} AC 0 ... 80 kV DC	0 ... 78 kV _{rms} AC 0 ... 110 kV DC
Measuring range	0 ... 40 kV AC 0 ... 60 kV DC	0 ... 60 kV AC 0 ... 80 kV DC	0 ... 80 kV AC 0 ... 110 kV DC
Precision		1.5 %	
Output current		0 ... 15mA 50 mA (1 hour)	
Measuring range		0 ... 500 µA / 0 ... 50 mA	
Precision		1.5 %	
Control unit HSW 3-2			
Weight		26 kg	
Dimensions (W x H x D)		520 x 255 x 320 mm	
Transformer			
Weight	48 kg	76 kg	95 kg
Dimensions (W x H x D)	440 x 740 x 420 mm	440 x 800 x 440 mm	310 x 960 x 310 mm

FEATURES

- Continuous testing with AC voltages up to 1.5 kVA
- Separate control and HV-unit
- In-built over-current protection
- DC-testing via rectifier attachment

ORDERING INFORMATION	
Product	Order no.
HPG 50-H Control unit (HSW 3-2), HV-transformer 35 kV _{rms} , set of cables, rectifier attachment, discharge and earthing rod 50 kV	813220
HPG 80-H Control unit (HSW 3-2), HV-transformer 58 kV _{rms} , set of cables, rectifier attachment, discharge and earthing rod 100 kV	118303086
HPG 110-H Control unit (HSW 3-2), HV-transformer 78 kV _{rms} , set of cables, rectifier attachment, discharge and earthing rod 150 kV	1004470
Options:	
HV-connection cable 3 m (unshielded)	2005029
HV-connection cable 5 m (unshielded)	2004993
HV-connection cable 10 m (unshielded)	2005030
HV-connection cable 5 m (shielded)	810003736
HV-connection cable 10 m (shielded)	820023906

* We reserve the right to make technical changes.

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