

High-voltage test system HPG 50 ... 80-D

Compact and powerful AC and DC 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 voltage doubler rectifying attachment**

DESCRIPTION

The high voltage test sets HPG 50-D and 80-D are suitable for 50/ 60 Hz AC testing (35 to 58 kV_{RMS}) and DC testing up to respectively 100 kV or 160 kV. The DC voltage is generated via a voltage doubler. The high-voltage test systems consist of two separate units: the control unit and the high-voltage unit. This separation enables the operator to use the test set on-site without any complications.

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 xx-D test systems at a glance:

- HPA 50-D, testing up to 35 kV_{RMS} / DC-testing up to 100 kV
- HPA 80-D, AC testing up to 58 kV_{RMS} / DC-testing up to 160 kV

TECHNICAL DATA*

	HPG 50-D	HPG 80-D
Power consumption P_N	1.2 kVA	1.2 kVA
Power consumption short-time P_k (1h)	3 kVA	2.5 kVA
Input voltage	230 V / 50 ... 60 Hz	
Output voltage	0 ... 35 kV _{rms} AC 0 ... 100 kV DC	0 ... 58 kV _{rms} AC 0 ... 160 kV DC
Measuring range	0 ... 40 kV AC 0 ... 100 kV DC	0 ... 60 kV AC 0 ... 160 kV DC
Precision	1.5 %	
Output current	0 ... 15mA 50 mA (1 hour)	
Measuring range	0 ... 500 μ A / 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	94 kg	124 kg
Dimensions (W x H x D)	900 x 1065 x 450 mm	1000 x 1065 x 490 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 voltage doubler rectifier attachment

ORDERING INFORMATION	
Product	Order no.
HPG 50-D	813219
Control unit (HSW 3-2), HV-transformer 35 kV _{rms} , set of cables, rectifier attachment (voltage doubler), discharge and earthing rod 100 kV	
HPG 80-D	813223
Control unit (HSW 3-2), HV-transformer 58 kV _{rms} , set of cables, rectifier attachment (voltage doubler), discharge and earthing rod 150 kV	
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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