

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

Compact and powerful AC and DC test systems

Megger[®]



- Compact, maintenance free, cast-resin high-voltage transformers
- Separate control and HV units
- Continuously adjustable voltage
- A powerful system: continuous operation at 1.2 kVA; 60 min. short operation at up to 3 kVA
- DC testing via the 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 100 kV and 160 kV respectively. 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 witchgears
- Testing voltage and current transformers
- Testing MV plants/components
- DC cable testing

The two piece design allows the operator to use the unit at a safe distance. The control unit is used to operate the high voltage transformer. The control 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-D, testing up to 35 kV_{RMS} / DC-testing up to 100 kV
- HPG 80-D, AC testing up to 58 kV_{RMS} / DC-testing up to 160 kV

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

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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	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	2,5 %	2,5 %
Output current	0 ... 15mA 50 mA (1 hour)	0 ... 15mA 50 mA (1 hour)
Measuring range	0 ... 500 μ A/ 0 ... 50 mA	0 ... 500 μ A/ 0 ... 50 mA
Control unit HSW 3-2		
Weight	26 kg / 57.3 lbs.	26 kg / 57.3 lbs.
Dimensions (W x H x D)	520 x 255 x 320 mm 20.47 in. x 10.04 in. x 12.60 in.	520 x 255 x 320 mm 20.47 in. x 10.04 in. x 12.60 in.
Transformer		
Weight	94 kg / 207.2 lbs.	124 kg / 273.4 lbs.
Dimensions (W x H x D)	900 x 1065 x 450 mm 35.43 in. x 41.93 in. x 17.72 in.	1000 x 1065 x 490 mm 39.37 in. x 41.93 in. x 19.29 in.

ORDERING INFORMATION

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

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