

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 switchgears
- 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 µA/ 0 ... 50 mA	0 ... 500 µA/ 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	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

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
Mandatory selection mains cable (1x)	
Mains cable EU	810002145
Mains cable UK	108301423
Mains cable US	2016233
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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