

High-voltage test system HPG 50-H - 110-H Compact and powerful AC test systems



- 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 a rectifier

DESCRIPTION

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

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 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 kVRMS / DC-testing up to 50 kV
- HPG 80-H, AC testing up to 58 kVRMS / DC-testing up to 80 kV
- HPG 110-H, AC testing up to 78 kVRMS / DC-testing up to 110 kV

All HPG test systems at a glance:

- 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

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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	230 V / 50 ... 60 Hz	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 AC
Precision	2.5 %	2.5 %	2.5 %
Output current	0 ... 15mA 50 mA (1 hour)	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	0 ... 500 µA/ 0 ... 50 mA
Control unit HSW 3-2			
Weight	26 kg / 57.3 lbs.	26 kg / 57.3 lbs.	26 kg / 57.3 lbs.
Dimensions (W x H x D)	520 x 255 x 320 mm 20.5 in. x 10.0 in. x 12.9 in.	520 x 255 x 320 mm 20.5 in. x 10.0 in. x 12.9 in.	520 x 255 x 320 mm 20.5 in. x 10.0 in. x 12.9 in.
Transformer			
Weight	48 kg / 105.8 lbs.	76 kg / 167.6 lbs.	95 kg / 209.4 lbs.
Dimensions (W x H x D)	440 x 320 x 420 mm 17.3 in. x 12.6 in. x 16.5 in.	440 x 440 x 440 mm 17.3 in. x 17.3 in. x 17.3 in.	310 x 720 x 310 mm 12.2 in. x 28.3 in. x 12.2 in.

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
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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