

High-voltage test system HPG 35 / 58 / 78 AC

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

DESCRIPTION

The AC voltage test sets HPG 35 to 78 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 via a one-way rectifier.

Typical application areas:

- Testing switchgears
- Testing voltage and current transformers
- Testing MV plants/components

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 35, AC testing up to 35 kV_{RMS}
- HPG 58, AC testing up to 58 kV_{RMS}
- HPG 78, AC testing up to 78 kV_{RMS}

Features:

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

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TECHNICAL DATA*

	HPG 35-AC	HPG 58-AC	HPG 78-AC
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 ... 58 kV _{rms} AC	0 ... 78 kV _{rms} AC
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 μ A/0 ... 50 mA	0 ... 500 μ A/0 ... 50 mA	0 ... 500 μ A/0 ... 50 mA

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 320 x 420 mm	440 x 440 x 440 mm	310 x 720 x 310 mm

ORDERING INFORMATION

Product	Order no.
HPG 35-AC Control unit (HSW 3-2), HV-transformer 35 kV _{rms} , set of cables, discharge and earthing rod 50 kV	820003084
HPG 58-AC Control unit (HSW 3-2), HV-transformer 58 kV _{rms} , set of cables, discharge and earthing rod 100 kV	128310896
HPG 78-AC Control unit (HSW 3-2), HV-transformer 78 kV _{rms} , set of cables, discharge and earthing rod 100 kV	128310772
Options:	
HV-connection cable 3 m (unshielded)	2005029
HV-connection cable 5 m (unshielded)	2004993
HV-connection cable 10 m (unshielded)	2005030

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SALES OFFICE

Megger Germany GmbH
Dr.-Herbert-lann-Str. 6
96148 Baunach
Germany
T +49 9544 68-0
E team.international@megger.com

HPG35_DS_EN_V03a

www.megger.com
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