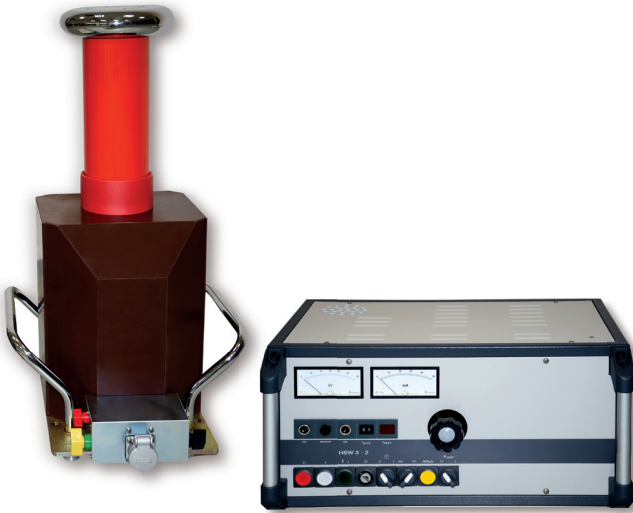


# High-voltage test system HPG 50-H - 110-H

## 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**

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### 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 kV<sub>RMS</sub> / DC-testing up to 50 kV
- HPG 80-H, AC testing up to 58 kV<sub>RMS</sub> / DC-testing up to 80 kV
- HPG 110-H, AC testing up to 78 kV<sub>RMS</sub> / DC-testing up to 110 k

## 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	
Output voltage	0 ... 35 kV <sub>rms</sub> AC 0 ... 50 kV DC	0 ... 58 kV <sub>rms</sub> AC 0 ... 80 kV DC	0 ... 78 kV <sub>rms</sub> 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 DC
Precision		1.5 %	
Output current		0 ... 15mA 50 mA (1 hour)	
Measuring range		0 ... 500 µA / 0 ... 50 mA	
Precision		1.5 %	
<b>Control unit HSW 3-2</b>			
Weight		26 kg	
Dimensions (W x H x D)		520 x 255 x 320 mm	
<b>Transformer</b>			
Weight	48 kg	76 kg	95 kg
Dimensions (W x H x D)	440 x 740 x 420 mm	440 x 800 x 440 mm	310 x 960 x 310 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 rectifier attachment

## ORDERING INFORMATION

Product	Order no.
<b>HPG 50-H</b> Control unit (HSW 3-2), HV-transformer 35 kV <sub>rms</sub> , set of cables, rectifier attachment, discharge and earthing rod 50 kV	<b>813220</b>
<b>HPG 80-H</b> Control unit (HSW 3-2), HV-transformer 58 kV <sub>rms</sub> , set of cables, rectifier attachment, discharge and earthing rod 100 kV	<b>118303086</b>
<b>HPG 110-H</b> Control unit (HSW 3-2), HV-transformer 78 kV <sub>rms</sub> , set of cables, rectifier attachment, discharge and earthing rod 150 kV	<b>1004470</b>
<b>Options:</b>	
<b>HV-connection cable 3 m (unshielded)</b>	<b>2005029</b>
<b>HV-connection cable 5 m (unshielded)</b>	<b>2004993</b>
<b>HV-connection cable 10 m (unshielded)</b>	<b>2005030</b>
<b>HV-connection cable 5 m (shielded)</b>	<b>810003736</b>
<b>HV-connection cable 10 m (shielded)</b>	<b>820023906</b>

\* We reserve the right to make technical changes.

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