

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

## Compact and powerful AC and DC 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 the voltage-doubler rectifying attachment**

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### DESCRIPTION

The high voltage test sets HPG 50-D and 80-D are suitable for 50/ 60 Hz AC testing (35 to 58 kV<sub>RMS</sub>) 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 xx-D test systems at a glance:

- HPG 50-D, testing up to 35 kV<sub>RMS</sub> / DC-testing up to 100 kV
- HPG 80-D, AC testing up to 58 kV<sub>RMS</sub> / DC-testing up to 160 kV

## TECHNICAL DATA\*

	HPG 50-D	HPG 80-D
<b>Power consumption <math>P_N</math></b>	1.2 kVA	1.2 kVA
<b>Power consumption short-time <math>P_k</math> (1h)</b>	3 kVA	2.5 kVA
<b>Input voltage</b>	230 V / 50 ... 60 Hz	
<b>Output voltage</b>	0 ... 35 kV <sub>rms</sub> AC 0 ... 100 kV DC	0 ... 58 kV <sub>rms</sub> AC 0 ... 160 kV DC
<b>Measuring range</b>	0 ... 40 kV AC 0 ... 100 kV DC	0 ... 60 kV AC 0 ... 160 kV DC
<b>Precision</b>	1.5 %	
<b>Output current</b>	0 ... 15mA 50 mA (1 hour)	
<b>Measuring range</b>	0 ... 500 µA / 0 ... 50 mA	
<b>Precision</b>	1.5 %	
<b>Control unit HSW 3-2</b>		
<b>Weight</b>	26 kg	
<b>Dimensions (W x H x D)</b>	520 x 255 x 320 mm	
<b>Transformer</b>		
<b>Weight</b>	94 kg	124 kg
<b>Dimensions (W x H x D)</b>	900 x 1065 x 450 mm	1000 x 1065 x 490 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 voltage doubler rectifier attachment

## ORDERING INFORMATION

Product	Order no.
<b>HPG 50-D</b>	<b>813219</b>
Control unit (HSW 3-2), HV-transformer 35 kV <sub>rms</sub> , set of cables, rectifier attachment (voltage doubler), discharge and earthing rod 100 kV	
<b>HPG 80-D</b>	<b>813223</b>
Control unit (HSW 3-2), HV-transformer 58 kV <sub>rms</sub> , set of cables, rectifier attachment (voltage doubler), discharge and earthing rod 150 kV	
<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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## HPG50D-HPG80D\_DS\_EN\_V01

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