



HPG 70-K

Portable, fully insulated high-voltage test system up to 70 kV DC

Benefits

- ▶ **Highest safety thanks to fully insulated design**
- ▶ **Compact and lightweight**
- ▶ **Separate control and HV unit**
- ▶ **Voltage continuously adjustable**
- ▶ **Expandable with a VLF CR attachment for VLF testing on MV cables**



System description

SebaKMT's high voltage test set HPG 70-K is a fully insulated test set for DC testing up to 70 kV. Thanks to its fully insulated design, this system is ideal for stand-alone applications. The DC voltage is obtained through a bridge rectifier which ensures a very low ripple of the test voltage. Moreover, the DC voltage is measured on the secondary side and therefore ensures a precise output voltage.

The high voltage test equipment HPG 70-K consists of two parts and is used for testing of cable installations either as a stand-alone unit or built into a module or cable test van. The control unit HSG 1 includes a variac. Its output voltage feeds the high voltage unit HVT 70.

The high voltage unit HVT 70-K is fully insulated. The test voltage of 70 kV DC is drawn from a socket outlet and plug and fed to the cable under test. For feeding of the control voltage of 0 ... 230 V AC, a multi-pole connection lead to the control unit is supplied.

For testing of polymer insulated cables the test system can be expanded with a VLF CR attachment. This attachment will allow high-capacitance testing up to 54 kV at 0.1Hz.

Technical Data

DC output voltage	0 ... 70 kV
DC output current	0 ... 10 mA
kV indication	0 ... 80 kV (analogue)
mA indication	0 ... 10 mA (analogue)
Measuring ranges	0.1, 1, 10 mA
Timer	0 ... 60 min
Dimensions control unit	520 x 255 x 320 mm
Weight control unit	18 kg
Dimensions HV unit	320 x 255 x 255 mm
Weight HV unit	20.5 kg
Power supply	230 V \pm 10 %, 45 ... 60 Hz, 700 VA
Operating temperature	- 25 ... + 55 °C
Storage temperature	- 40 ... + 85 °C

Scope of delivery HPG 70-K

- ▶ Control unit HSG 1
- ▶ HV-unit HVT 70-K
- ▶ Kabelsatz
- ▶ Entladestab 75 kV

Scope of delivery HPG 70-K-VLF

- ▶ Control unit HSW 3-VLF
- ▶ HV-unit HVT 70-K
- ▶ VLF attachment VLF PZ
- ▶ Set of cables
- ▶ Discharge rod 75 kV