

Data Sheet



High Voltage Test Set PGK 50/80

The portable high voltage devices PGK 50/80 for generation of negative high voltage up to 50, or 80 kV are designed for at site testing of paper-insulated mass-impregnated cables in medium voltage networks. High voltage is generated by a high voltage transformer and a voltage multiplier. Thanks to an internal operating frequency of 20 kHz small dimensions are possible. Packaged in a handy carrying case with handles and carrying strap, the PGK units are portable and well equipped for field applications.

Type	PGK 50*	PGK 80*
Max. test voltage	50 kV DC	80 kV DC
at an output current of:	2 mA	0,8 mA

* for more data refer to load curve

Features:

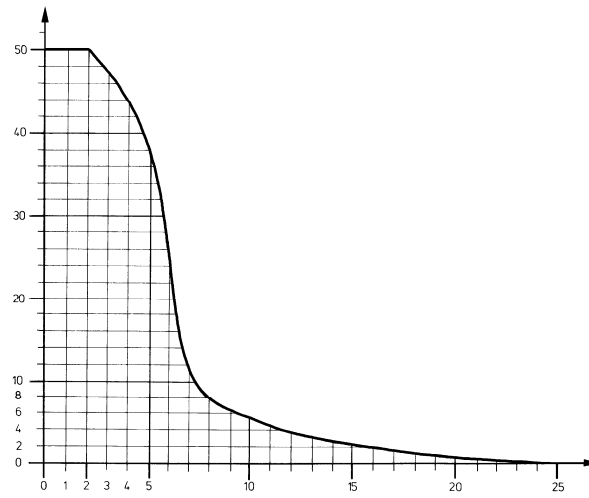
- stepless adjustable output voltage
- voltage measurement is made directly at high voltage output
- timer 1-30 min
- sensitive current measurement for acquisition of smallest insulation currents (6 ranges)
- high short-circuit current
- safety control according to VDE 0104
- transient wave protection
- socket for safety contact, emergency off switch, external signal lamps
- connection of Y/t plotter for recording the current output

The integrated discharge device works automatically and independent of instrument position. The discharge resistor is prepared for a maximum discharge energy of 8.000 Ws. At power failure the discharge device is automatically released.

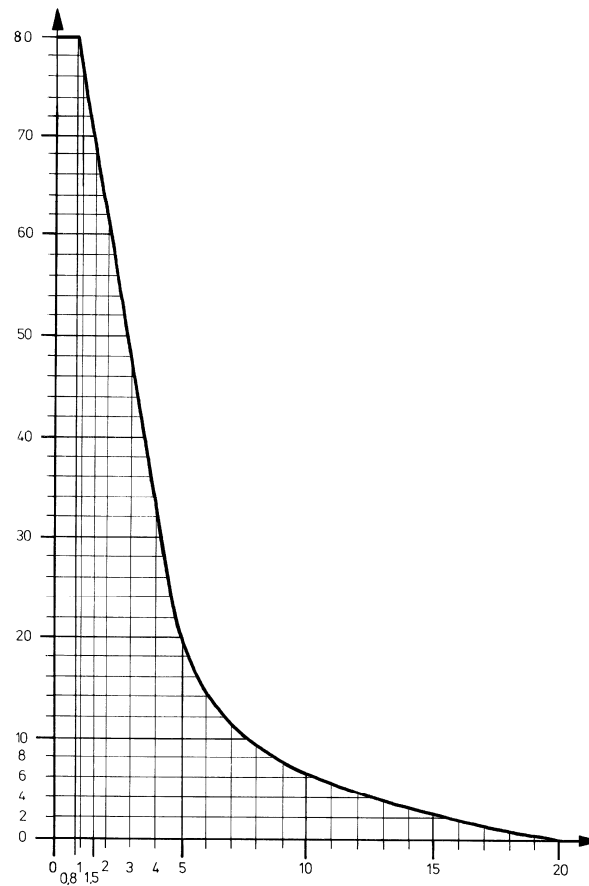
Technical data

		PGK 50/80	
Power supply		220 - 230 V; 50 - 60 Hz Also available for power supply: 110 - 120 V / 240 V	
Max. power consumption		PGK 50: 1.600 VA	PGK 80: 1.400 VA
Rated output voltage		50 kV DC neg.	80 kV DC neg.
Rated output current		2 mA at 50 kV	0,8 mA at 80 kV 1,5 mA at 70 kV
Short-circuit output current		25 mA	20 mA
Timer		0 - 30 min	
Discharge device		for a maximum discharge energy of 8.000 Ws, at 1 discharge per 15 min; T _u = 20 ° C	
Voltage measuring range	I II	PGK 50: 0 - 50 kV 0 - 10 kV	PGK 80: 0 - 80 kV 0 - 16 kV
Accuracy of kV-meter		± 2,5 %	
Current measuring range		1 µA / 10 µA / 100 µA; 1 mA / 10 mA / 100 mA	
smallest readable current		20 nA	
Relative humidity		not condensing	
Ambient temperature		Working: 0 ... + 45 ° C Storage: - 20 ... + 60 ° C	
Dimensions (W x H x D)		495 x 460 x 285 mm	
Weight		25 kg	

PGK Load characteristics



Load characteristics PGK 50



Load characteristics PGK 80

High Voltage Test Set PGK 50

Delivery includes:

- High voltage test set PGK 50 without accessories
- HV connection cable, approx. 4 m long; fix mounted to instrument
- Ground line 3 m long; with ground terminal 24 mm wide
- Cable for operating ground, current measuring cable
- Mains connection cable, fix mounted on instrument
- Operating manual

Options:

- Discharge and earthing rod: GDR 60-375, 900 Ws

High Voltage Test Set PGK 80

Delivery includes:

- High voltage test set PGK 80 without accessories
- HV connection cable, approx. 4 m long; fix mounted to instrument
- Ground line 3 m long; with ground terminal 24 mm wide
- Cable for operating ground, current measuring cable
- Mains connection cable, fix mounted on instrument
- Operating manual

Options:

- Discharge and earthing rod: GDR 80-500, 1200 Ws

