

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:

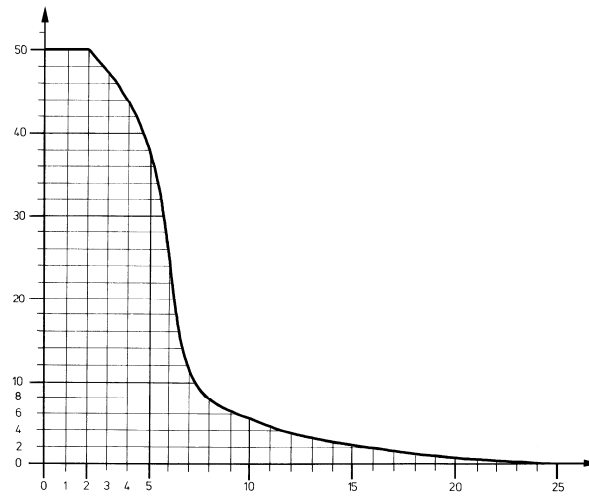
- stepless adjustable output voltage
- voltage measurement is made directly at high voltage output
- timer 1-30 min
- sensitive current measurement for acquisition of smallest insulation currents (6 ranges)
- high short-circuit current
- safety control according to VDE 0104
- transient wave protection
- 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.

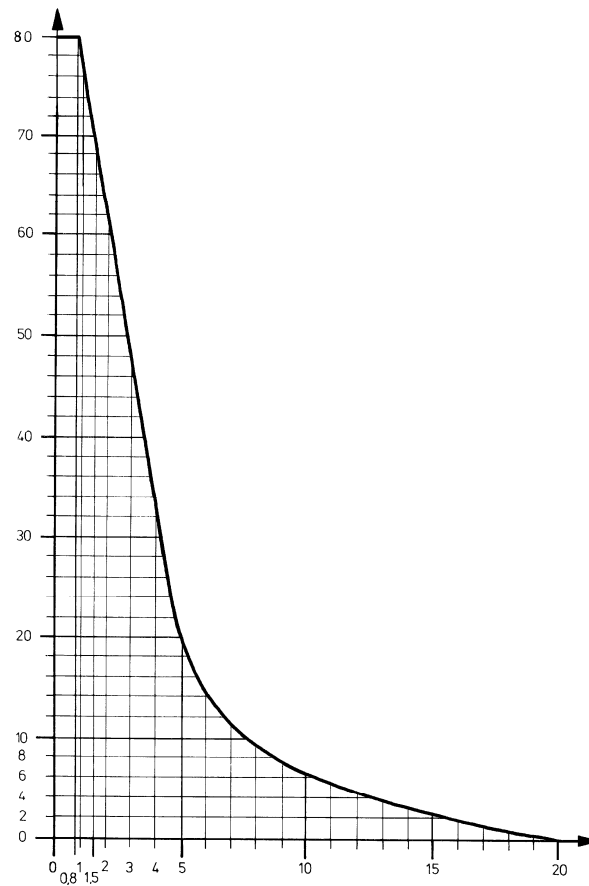
Technical data

	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
Short-circuit output current	25 mA	1,5 mA at 70 kV 20 mA
Timer	0 - 30 min	
Discharge device	for a maximum discharge energy of 8.000 Ws, at 1 discharge per 15 min; $T_u = 20\text{ °C}$	
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	$\pm 2,5\%$	
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 rod ES 70; 12 kW

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 rod ES 70; 12 kW

