



High voltage test instruments and -equipment



**For dielectric testing to
VDE 0276 part 1 and
for DC testing in high
voltage and cables systems**

sebaKMT



1. HV Testing Instruments 5 kV to 850 kV

SebaKMT offers DC testing instruments for a very wide range of application and voltage levels.

Portable test instruments and mobile test systems up to 130 kV are available for dielectric testing of paper-insulated cables to VDE 0276 Part 1 and other international standards. High-voltage testers between 200 kV and 850 kV are available for the DC testing of high-voltage systems and cables.

Fields of application:

- Testing of cables and joints prior to putting into service
- Testing after repair and maintenance operations
- Testing of electrical fixtures

2. Portable HV Testers

HV Tester 25 kV DC

- Built-in rechargeable battery with integrated charger.
- Stabilised, continuously adjustable output voltage 0 to 25 kV.
- Indication of leakage current and test voltage.
- Integrated discharge unit.
- Immune to short and open circuit conditions.



HV Tester 40 kV DC-T 99 / 1

- Mains-powered or powered by external battery (12V DC).
- Stabilised, continuously adjustable output voltage 0 to 40 kV.
- Indication of leakage current and test voltage.
- Integrated discharge unit.
- Overcurrent tripping.



Technical specification	HV Tester 25 kV	40 kV T 99/1
Output voltage	0 - 25 kV	40 kV
Rated current	1.5 mA	2.5 mA
Power supply	Mains 115 V/230 V, 50/60 Hz Internal battery ca. 45 min External battery 11-15 V	Mains 230 V AC ($\pm 10\%$) External battery 12 V
Power Consumption	max. 100 W	max. 220 VA
Dimensions (L x W x H)	168 x 467 x 284 mm	160 x 260 x 400 mm
Weight:	13.5 kg	15 kg

HV Test Set 50/80/110 kV

- Integrated measurement of leakage current and test voltage.
- Separate control and HV units.
- Control unit with operating elements.
- HV unit with high-voltage transformer, rectifier and voltage divider.
- Stabilised, continuously adjustable DC output voltage.



Technical specification	HV Tester 50 kV	HV Tester 80 kV	HV Tester 110 kV
Output voltage	50 kV	80 kV	110 kV
Rated current	6 mA	5 mA	4 mA
Power supply	230 V, 50 Hz (115 V, 60 Hz on demand)	230 V, 50 Hz (115 V, 60 Hz on demand)	230 V, 50 Hz (115 V, 60 Hz on demand)
Power consumption	max. 900 W	max. 900 W	max. 900 W
Dimensions (L x W x H) HV-unit and operating unit	214 x 460 x 236 mm 400 x 335 x 200 mm	214 x 560 x 236 mm 400 x 335 x 200 mm	214 x 670 x 236 mm 400 x 335 x 200 mm
Weight: HV-unit and control unit	17.0 kg + 13.5 kg	18.5 kg + 13.5 kg	20.0 kg + 13.5 kg

3. Portable AC Tester

AC Voltage Testers HPG 35 AC and HPG 55 AC

- Compact high-voltage transformers HTR 35-1 and HTR 55-1, resin cast.
- Separate control and HV units.
- Voltage continuously adjustable.
- Powerful system: 1.2 kVA continuous operation, 3.5 kVA 60 min shortterm operation.



AC Voltage Tester 75 kV - T 22-1

- Continuously adjustable output voltage 0 to 75 kV.
- Optional extra: DC testing up 80 kV.
- Component parts: Operating / control unit and SF6-gas high-voltage transformer.
- Suitable for testing objects of low capacitance (e. g. medium-high voltage switch-gear to VDE 0670).
- Built-in overload protector.

Technical specification	HPG 35-1 + HSW 3-2	HPG 55 + HSW 3-2	T22 / 1
Output voltage	0 - 35 kV AC	0 - 50 kV AC	0 - 75 kV rms.
Rated current	15 mA	15 mA	13 mA
Power supply ±10%	220/230 V, 50/60 Hz	220/230 V, 50/60 Hz	220/230 V, 50/60 Hz
Test load at	0.2 µF	0.2 µF	appr. 1000 pF; max. 30 min
Dimensions (L x W x H) HV-unit and operating unit	214 x 460 x 236 mm 225 x 370 x 380 mm	214 x 560 x 236 mm 440 x 485 x 475 mm	214 x 670 x 236 mm 255 x 551 x 380 mm
Weight: HV-unit and control unit	42 kg + 26 kg	70 kg + 26 kg	19 kg + 29 kg



4. Mobile HV Tester of Series HPG

HV Testers T26/1A, T26/1B and T26/1C

- Control unit HSW 3-2 with mA and kV indicating meters.
- Maximum output voltages 50 – 70 – 100 – 130 kV at 15 / 50 mA (continuous / short-circuit current).
- DC tester consisting of several components which can be combined and upgraded with a VLF tester.
- Powerful transformers HTR 35-1 and HTR 55-1, also suitable for AC testing.
- Cost-effective 70 kV test apparatus with special control unit HSG 1 and fully insulated test unit HVT 70-K.



Technical specification	HPG 50 - H	HPG 50 - D	HPG 70 - H	HPG 70 - K	HPG 70 - D
Output voltage	50 kV DC	0 - 100 kV DC	70 kV DC	0 - 70 kV DC	0 - 130 kV DC
Rated current	14 mA	15 mA	15 mA	10 mA	15 mA
HV - transformer	HTR 35-1	HTR 35-1	HTR 55-1	HVT 70 K	HTR 55-1
Dimensions (L x W x H)	225 x 370 x 705 mm	900 x 1065 x 450 mm	440 x 485 x 800 mm	255 x 320 x 255 mm	1000 x 1065 x 490 mm
Weight:	47.5 kg	94 kg	75.5 kg	20.5 kg	124 kg

5. High-Voltage Testers 400 kV to 850 kV

HV Testers T26/1A, T26/1B and T26/1C

- Suitable for integration in a test van or trailer or for stand-alone operation.
- Control and HV units spatially separated.
- Consisting of: Control unit, HV transformer, frequency converter, cascades for voltage multiplication, surge protector and discharge unit.
- Indication of current and voltage, overcurrent trip.
- Standard versions 400 kV, 650 kV and 850 kV.



Technical specification	T26/1A 400 kV	T26/1B 650 kV	T26/1C 850 kV
Output voltage	400 kV DC	650 kV DC	850 kV DC
Rated current	4 mA (max. 350 kV)	3.5 mA (max. 600 kV)	2 mA
Power supply	230 V / 50/60 Hz	230 V / 50/60 Hz	230 V / 50/60 Hz
Test load at	0.2 µF	0.2 µF	appr. 1000 pF; max. 30 min
Power consumption	max. 4 kVA	max. 5.5 kVA	max. 5.5 kVA

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Product Range: Instruments and Systems for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water Distribution Systems • Cable and Pipe Locators • Seminars • Service • Contracting
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