

- VLF
- DC
- Jacket/Sheath Test
- Sheath Fault Location mode²
- Fault conditioning
- DDD®
Dual Discharge Device (internal)
- USB Data Transfer

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DHV1258 Rev01
ENGLISH

Subject to alternations-
errors excepted
Illustrations are not binding

HVA54/80

Compact and universal VLF High Voltage Test Set

Large output load capability up to 10 μF ¹

The unique and patented high Power HVA54/80 test system is specially designed to test long cables (up to 33 km) via portable use or as a built-in version for test vans. The compact design is ideal for on-site testing and makes the system highly portable. The system is capable of a maximum output voltage of 38kV rms (VLF) and 80kV (DC) thus allowing a versatile use.

The HVA 54/80 is a dry type design (no oil filled components) which minimizes maintenance expenses and maximises operating times (no limitation!). The HVA54/80 can also be extended to a diagnostic system allowing it to make Tan Delta and Partial Discharge measurements (optional).



Type	HVA54/80	
Article number	SH0213	
Input Voltage	210 – 240 V 50/60 Hz (3.0 kVA)	
Output Voltage	Sinusoidal	0 – 54 kV peak, 38 kV rms
	DC	± 0 – 80 kV
	Squarewave	54 kV
	Vacuum Bottle	54 kV
	Accuracy	± 1 %
	Resolution	0.1 kV
Output Current	0 – 65 mA (Resolution 1 μA) Accuracy: ± 1 %	
Resistance Range	0.1 M Ω ...5 G Ω	
Sheath Test	Umax	10 kV
	Duration	1 min – 15 min
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location ¹	Unmax	10 kV
	Duration	1 min – 60 min
	Pulse/Period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) – auto frequency selection	
Output Load	2.0 μF @ 0.1 Hz @ 38 kV rms 3.8 μF @ 0.1 Hz @ 20 kV rms 10 μF @ 0.01 Hz @ 38 kV rms 10 μF maximum Capacitance! ¹	
Output Modes	AC (VLF) Symmetrical and load independent across full range, DC (plus or negative polarity), Burn-/ Fault Condition or Fault Trip Mode, Jacket / Sheath Testing	
Safety	50 Hz 12 kV Feedback Protection / Discharge unit	
Memory	50 Test Records Stored	
Metering	Voltage an Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
Duty	Continuous! No thermal limitation for operating time.	
HV Cable	7.5 m with Alligator clamps on end (other options available on request)	
Software	„HVA Control Center“	
Computer interfaces	RS232	•
	USB	Optional
Environmental conditions	Storage: -25°C to + 70°C, Operating: -5°C to + 45°C	
Dimensions L x W x H	650 x 445 x 610 mm (Excl. Carry Handle), also as 19" version available	
Weight	127 kg	
Upgrades (Optional)	Tan Delta TD60, Partial Discharge System PD60	

¹ At lower Voltage and Frequency

² in combination with locator set (not in scope of supply)