

HVA54-5

VLF High Voltage Test Set

Extreme Output Power

- VLF pure sinusoidal voltage
- VLF rectangular voltage
- DC voltage
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test

Pure VLF sinusoidal output voltage up to 5 μF at 0.1 Hz at 54 kV peak, 38 kV rms, for testing extra long medium voltage cables.

Dry system - The HVA54-5 test set is a dry type test system - have no oil filled components. This means less maintenance, compact and lightweight design and no limitation of operating time.

Safety - The instrument has two independent earthing devices (electronic and mechanical discharging) and a 12 kV feedback protection system to protect both operator and instrument.

Connectivity - On site, no external PC is needed. All results can be downloaded later by USB for further investigation and easy report creation on the PC software.

Solid HV connectors - Robust HV-connectors allow the use of different HV test lead lengths, the quick exchange for a replacement cable, or the simpler upgrade path for connection of diagnostic systems.



Features

- Output voltage 38 kV_{rms}, 54 kV_{peak}
- Pure sinusoidal output voltage (load-independent)
- Output current 160 mA max.
- Highest test capacity of 15 μF
- Unlimited and continuous duty circle
- Cable testing according: CENELEC HD 620/621, IEEE 400.2-2004, IEC60502-2:2014
- Programmable test sequences
- Upgradable with Partial Discharge diagnostic and Tan Delta system (optional)
- 12kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- Easily exchangeable HV cable
- Vacuum Bottle Test
- Sheath Fault Locating (in combination with Earth Fault Locator) (not included)
- Real time oscilloscope display of output voltage
- Breakdown voltage and load detection (R and C)
- RMS digital metering of voltage and current
- PC software "b2 Control Center" with various reporting functions included

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solid HV connectors



dry system



unlimited operating time

HVA54-5		
Article number	SH0242	
Input Voltage	210 – 240 V, 50/60 Hz, 6.0 kVA	
Output Voltage	Sinusoidal	0 - 54 kV peak, 38 kV rms
	DC	± 0 – 54 kV
	Squarewave	0 - 54 kV
	Accuracy	± 1%
	Resolution	0.1 kV
Output Current	0 – 160 mA (Resolution 1 µA) Accuracy: ±1%	
Resistance Range	0.1 MΩ...5 GΩ	
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency	
Output Load	5.0 µF @ 0.1 Hz @ 38 kV rms 15.0 µF @ 0.01 Hz @ 38 kV rms	
Sheath Test	Unmax	10 kV
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location ¹	Unmax	10 kV
	Pulse/Period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
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 / Dual Discharge Device (internal)	
Memory	50 Test Record Stored USB almost unlimited	
Metering	Voltage and Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
HV-Cable	5 m with MC contact and alligator clamps	
Software	"b2 Control Center" (included)	
Computer interfaces	RS232	standard
	USB	Flash Drive
Dimensions	L 863 x W 445 x H 611 mm (Excl. Carry Handle)	
Weight	169 kg	
Environmental conditions	Storage: -25°C to + 70°C Operating: -10°C to + 50°C Humidity: 5-85% non condensing	

¹ in combination with locating device (not in scope of supply)

Options

- External Tan Delta Diagnostics System TD60 / TD60-MC
- Partial Discharge with integrated Tan Delta Diagnostics System PDTD60-2

Scope of delivery

- HVA54-5 Testing Device
- PC Software - b2 ControlCenter
- HV cable 5 m
- Power and earthing cable
- USB Stick
- Operating Manual