

HVA45

VLF High-Voltage Test Set

+4 kV Option*
Smart VLF™
 34.6 kV_{rms}* | 39 kg
 10 μF¹



smallest & lightest VLF cable test set



Trolley type



unlimited operating time

The HVA45 is a truly compact and portable VLF test set system for testing medium-voltage cables. It performs VLF and DC testing, sheath testing and sheath fault location modes. The system can be retrofitted with internal Tan Delta Diagnostics upgrade (as HVA45TD).

Service and maintenance: with no oil or arcing contacts (both of which require routine servicing), the dry-type transformer makes the instrument almost maintenance free.

Performance: the HVA45 offers outstanding features in terms of size, weight (39 kg) and performance (max. 10 μF).

Safety: the instrument has two independent earthing devices (electronic and mechanical discharging) and an integrated 12 kV feedback protection system to protect both operator and instrument.

Field use: a watertight and very rugged case with a protection class of IP67 (with closed lid) makes additional transport boxes obsolete.

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

Unlimited operating time: Operating time of the HVA high-voltage generators are not thermally limited and can be operated continuously.



Features

- Output voltage 45 kV_{peak}, 32.3 kV_{rms}
- +4 kV option*: 49 kV_{peak}, 34.6 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Leakage Guard® – leakage current correction
- Output current 60 mA max.
- 0.9 μF @ 0.1 Hz @ 32.3 kV_{rms}
- Almost maintenance free device – no oil or arcing contacts
- Highest test capacity of 10 μF
- Ultra light and compact weight (39 kg)
- Protection class IP67 (with closed lid)
- Total protection: almost unbreakable, watertight, dustproof and corrosion proof case
- Large Colour display (4.3")
- USB and Bluetooth connections
- Cable testing according: IEC60502-2:2015, IEEE 400.2-2004, CENELEC HD 620/621, IEEE400.2-2013 etc.
- Programmable test sequences
- Upgradable with Partial Discharge diagnostics system (optional)
- 12 kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), integrated electronic and mechanical discharge devices
- Easily exchangeable HV test lead
- Intuitive menu operation

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- Sheath Fault Locating Mode (in combination with Sheath Fault Locator – not included)
- Vacuum Bottle Test
- Insulation Testing

¹ at lower frequency and voltage | * default: the HVA45 is supplied with an output voltage of 45 kV_{peak}, 32.3 kV_{rms}. The option +4 kV must be ordered additionally.

HVA45

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dry system



protection class
IP67



upgradeable
to PD and TD
diagnostics systems

HVA45		
Article number	SH5010	
Input voltage	100-240 V, 50/60 Hz, 1200 VA	
Output voltage	VLF sine wave	0-45 kV _{peak} , 32.3 kV _{rms}
	+ 4 kV Option*	0-49 kV_{peak}, 34.6 kV_{rms} (Art. Nr. GH5845)
	DC	± 0-45 kV
	VLF square wave	0-45 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-60 mA	
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	0.9 μF @ 0.1 Hz @ 32 kV _{rms} 10.0 μF maximum Capacitance! ¹	
Sheath test	max. test voltage	15 kV
	trip current	0.1-10 mA
Sheath fault location ²	max. test voltage	15 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	12 kV/50 Hz Feedback Protection integrated electronic and mechanical discharge devices - DDD®: 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	
Duty cycle	Continuous! No thermal limitation for operating time.	
HV test lead	5 m with clamps	
Software	b2 ControlCenter (included)	
Computer interfaces	Bluetooth and USB flash drive	
Dimensions L x W x H	500 x 305 x 457 mm (Peli Case)	
Weight	39 kg	
Environment	temperature: storage: -25 °C to +70 °C, operating: -20 °C to +55 °C humidity: 5-85% non condensing	
Scope of supply	HVA45 testing device, Software – b2 ControlCenter, HV test lead 5 m, Power and earthing cable, Accessory bag, USB Stick, Operating manual	
Options	Internal/external Tan Delta diagnostics system, Partial Discharge diagnostics system	
Language	Please indicate desired language upon ordering.	

¹ at lower frequency and voltage | ² in combination with locating device (not in scope of supply)

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