

HVA45TD

VLF High-Voltage Test Set

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



integrated
TD diagnostics



smallest &
lightest VLF
cable test set



Trolley
type

The HVA45TD is a truly compact and portable VLF test set system for testing and Tan Delta diagnostics of medium-voltage cables in one device. It also performs VLF and DC testing, sheath testing, sheath fault location mode and features TD leakage current correction (guard terminal).

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.

MWT: the recently introduced Monitored Withstand Test, a combination of Withstand Testing and Tan Delta Diagnostics in compliance with IEEE 400.2-2013, can be performed.

Performance: the HVA45TD 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.



USB
Bluetooth



IP67



Colour
display
4.3"

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)
- Internal TD measurement with high accuracy (1 x 10⁻⁴)
- 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

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- Easily exchangeable HV test lead
- Intuitive menu operation
- 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 HVA45TD is supplied with an output voltage of 45 kV_{peak}, 32.3 kV_{rms}. The option +4 kV must be ordered additionally.



HVA45TD

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unlimited
operating time



dry system



protection class
IP67



upgradeable to
PD diagnostics
system

HVA45TD		
Article number	SH5011	
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)	
Tan Delta	accuracy	± 1 x 10 ⁻⁴
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	HVA45TD testing device incl. Tan Delta diagnostics, Software – b2 ControlCenter, HV test lead 5 m, Power and earthing cable, Accessory bag, USB Stick, Operating manual	
Options	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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