

# HVA45

the smallest VLF test system of its performance class



45 kV<sub>peak</sub> 32 kV<sub>rms</sub>  
48 kV<sub>peak</sub> 34 kV<sub>rms</sub>  
Option\*



39 kg



upgradeable with  
integrated TD



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).

**Performance:** the HVA45 offers outstanding features in terms of size, weight (39 kg) and performance (max. 10  $\mu$ F).

**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 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 PC Software.

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



USB  
Bluetooth



IP67



Color  
Display  
4.3"

## Features

- Output voltage 45 kV<sub>peak</sub> 32 kV<sub>rms</sub>
- + 3 kV option\*: 48 kV<sub>peak</sub> 34 kV<sub>rms</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 60 mA max.
- 1  $\mu$ F @ 0.1 Hz @ 32 kV rms
- Highest test capacity of 10  $\mu$ F
- 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: CENELEC HD 620/621, IEEE 400.2-2004, IEC60502-2:2014
- Programmable test sequences
- Upgradable with Partial Discharge and Tan Delta diagnostics system (optional)
- 12 kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), integrated electronic and mechanical discharge devices
- Easily exchangeable HV cable
- Intuitive menu operation
- Sheath Fault Locating (in combination with Earth Fault Locator) (not included)
- Vacuum Bottle Test
- Insulation Testing

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# HVA45

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dry system



upgradeable to  
PD and TD  
diagnostics system



unlimited  
operating time



Trolley type

Type	HVA45	
Article number	SH5010	
Input voltage	100-240 V, 50/60 Hz, 1200 VA	
Output voltage	VLF sine wave	0-45 kV peak, 32 kV rms
	<b>+3 kV Option*</b>	<b>0-48 kV peak, 34 kV rms (Art. Nr. GH5845)</b>
	DC	± 0-45 kV
	VLF square wave	0-45 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-60 m	
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	1.0 μF @ 0.1 Hz @ 32 kV rms 10.0 μF maximum Capacitance!¹	
Sheath test	max. test voltage	10 kV
	trip current	0.1-5.0 mA
Sheath fault location²	max. test voltage	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	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-Cable	5 m with clamps	
Software	"b2 ControlCenter" (included)	
Computer interfaces	Bluetooth and USB flash drive	
Dimensions LxWxH	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	

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

\* default: the HVA45TD is supplied with an output voltage of 45 kV<sub>peak</sub> 32 kV<sub>rms</sub>. The option +3 kV must be ordered additionally.

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DHV1364 Rev03 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



## Options

- Internal/external Tan Delta diagnostics system
- Partial Discharge diagnostics system

## Scope of delivery

- HVA45 testing device
- PC Software - b2 ControlCenter
- HV cable 5 m
- Power and earthing cable
- Accessory bag
- USB Stick
- Operating manual