

# HVA45

the smallest VLF test system of its performance class

- VLF and DC output
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- Upgradeable with TD & PD system options
- Insulation Testing

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.



## Features

- Output voltage 45 kV<sub>peak</sub> / 32 kV<sub>rms</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 60 mA max.
- 1  $\mu$ F @ 0.1 Hz @ 32 kV<sub>rms</sub>
- 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: IEC60502-2:2015, IEEE400.2-2013, CENELEC HD 620/621, etc.
- Programmable test sequences
- Upgradable with partial discharge and Tan Delta diagnostics system (optional)
- Integrated 12kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- Easily exchangeable HV cable
- Intuitive menu operation
- Sheath Fault Locating (in combination with Earth Fault Locator)<sup>1</sup>
- Vacuum Bottle Test
- Insulation testing

[www.b2hv.at](http://www.b2hv.at)

**b2**  
electronicgmbh

<sup>1</sup> not in scope of supply

# HVA45

the smallest VLF test system of its performance class



smallest and lightest  
VLF cable test set



trolley casing



unlimited operating  
time

Type	HVA45	
Article number	SH0260	
Input voltage	100 - 240 V, 50/60 Hz, 1.200 VA	
Output voltage	VLF sine wave	0 - 45 kV peak, 32 kV rms
	DC	± 0 - 45 kV
	VLF square wave	0 - 45 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0 - 60 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	1.0 µF @ 0.1 Hz @ 32kV rms 10.0 µF maximum Capacitance! <sup>1</sup>	
Sheath test	max. test voltage	10 kV
	trip current	0.1 mA – 5.0 mA
Sheath fault location <sup>2</sup>	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	50 Hz - 12 kV feedback protection/ Dual Discharge Device (internal)	
Memory	Built-in memory: up to 50 reports & 50 test sequences USB flash drive: unlimited	
Metering	voltage and current (true rms and/or peak), capacitance, resistance, time, flashover voltage	
HV-Cable	5 m with clamps	
Software	"b2 Control Center" (included)	
Computer interfaces	Bluetooth and USB	
Dimensions	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: 5-70 % non condensing	

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

DHV1364 Rev02 - 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



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