

# HVA34

## VLF High Voltage Test Set



**0.5 $\mu$ F** at 0.1 Hz  
at 24 kV<sub>rms</sub>

**19.5 kg**

**VLF 0.1 Hz**  
34 kV<sub>peak</sub>

The compact design and unmatched high voltage output power to weight ratio of the HVA test sets are second to none in the market, and make the b2 electronic high-voltage generators the lightest in all classes at all voltage levels.

**Dry system:** the HVA34 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 diagnostics systems.

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



## Features

- Output voltage 24 kV<sub>rms</sub> , 34 kV<sub>peak</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 15 mA max.
- Highest test capacity of 12  $\mu$ F
- Real time oscilloscope display of output voltage
- Breakdown voltage and load detection
- RMS digital metering of voltage and current
- PC software "b2 Control Center" with various reporting functions included
- 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
- Vacuum Bottle Test
- Sheath Fault Locating (in combination with Earth Fault Locator) (not included)

# HVA34



dry system



upgradeable to  
PD and TD  
diagnostics systems



unlimited  
operating time

HVA34		
Article number	SH5006	
Input voltage	110-240 V, 50/60 Hz, 400 VA	
Output voltage	VLF sine wave	0-34 kV peak, 24 kV rms
	DC	± 0-34 kV
	VLF square wave	0-34 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-15 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	0.5 μF @ 0.1 Hz @ 24 kV rms 1.0 μF @ 0.04 Hz @ 24 kV rms 2.5 μF @ 0.01 Hz @ 24 kV rms 12.0 μF maximum Capacitance! <sup>1</sup>	
Sheath test	max. test voltage	10 kV
	trip current	0.1-5.0 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	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	4 m with clamp	
Software	"b2 Control Center" (included)	
Interfaces	RS232 (Computer), USB (flash drive)	
Dimensions L x W x H	430 x 250 x 360 mm	
Weight	19.5 kg	
Environment	temperature: storage:-25°C to +70°C, operating: -10°C to +50°C humidity: 5-85% non condensing	

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

## Options

- External Tan Delta diagnostics system
- Partial Discharge system

## Scope of delivery

- HVA34 testing device
- PC Software - b2 ControlCenter
- HV cable 4 m
- Power and earthing cable
- USB flash drive
- Operating manual