

# HVA90

## VLF High Voltage Test Set



at 0.1 Hz  
at 64 kV<sub>rms</sub>



128 kg



VLF 0.1 Hz  
90 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 HVA90 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 (50 Hz) 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 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.



real time  
oscilloscope  
display



user  
interface



b2CC  
software

## Features

- Output voltage 64 kV<sub>rms</sub>, 90 kV<sub>peak</sub>
- Pure sinusoidal output voltage (load-independent)
- Output current 65 mA max.
- Highest test capacity of 10 μF
- Real time oscilloscope display of output voltage
- Breakdown voltage and load detection
- RMS digital metering of voltage and current
- Software b2 ControlCenter with various reporting functions included
- Cable testing according: IEEE 400.2-2004, CENELEC HD 620/621, 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 Mode (in combination with Sheath Fault Locator – not included)

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# HVA90

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dry system



upgradeable to  
PD and TD  
diagnostics systems



unlimited  
operating time

HVA90		
Article number	SH5017	
Input voltage	210-240 V, 50/60 Hz, 3 kVA	
Output voltage	VLF sine wave	0-90 kV <sub>peak</sub> , 64 kV <sub>rms</sub>
	DC	± 0-90 kV
	VLF square wave	0-90 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-65 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	1.0 μF @ 0.1 Hz @ 64 kV <sub>rms</sub> 9.9 μF @ 0.01 Hz @ 64 kV <sub>rms</sub> 10.0 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	7 m with MC contact or additional clamp	
Software	b2 ControlCenter (included)	
Computer interfaces	RS232, USB flash drive	
Dimensions <sup>3</sup> L x W x H	545 x 445 x 610 mm	
Weight	128 kg	
Environment	temperature: storage:-25°C to +70°C, operating: -10°C to +50°C humidity: 5-85% non condensing	
Scope of delivery	HVA90 testing device, Software – b2 ControlCenter, HV cable 7 m, Power and earthing cable, USB Stick, Operating manual	
Options	External Tan Delta diagnostics system, Partial Discharge with integrated Tan Delta diagnostics system	

<sup>1</sup> at lower frequency and voltage | <sup>2</sup> in combination with locating device (not in scope of supply) | <sup>3</sup> without handles

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