

HVA68-2

VLF High-Voltage Test Set Double Power



dry
system



unlimited
operating time



upgradeable
to PD and TD
diagnostics
systems

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.

Performance: With 2 μF @ 0.1 Hz @ 44 kV_{rms} HVA68-2 has double the power of previous version with no increase in size or weight.

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.

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 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 48 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Output current 80 mA max.
- Almost maintenance free device – no oil or arcing contacts
- Highest test capacity of 10 μF
- Real time oscilloscope display of output voltage
- Breakdown voltage and load detection (R and C)
- 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 diagnostic and Tan Delta Diagnostics System (optional)
- Unlimited and continuous duty cycle
- 12 kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- Easily exchangeable HV test lead
- Vacuum Bottle Test
- Sheath Fault Locating Mode (in combination with Sheath Fault Locator – not included)

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b2
electronicgmbh

HVA68-2

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smallest & lightest
VLF cable test set



DDD® – integrated
electronic and
mechanical
discharge devices



50 Hz – 12 kV
Feedback
Protection

HVA68-2		
Article number	SH5016	
Input voltage	190-240 V, 50/60 Hz, 3 kVA	
Output voltage	VLF sine wave	0-68 kV _{peak} , 48 kV _{rms}
	DC	± 0-60 kV
	VLF square wave	0-60 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-80 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	2.0 μF @ 0.1 Hz @ 44 kV _{rms} 1.7 μF @ 0.1 Hz @ 48 kV _{rms} 5.6 μF @ 0.03 Hz @ 48 kV _{rms} 10.0 μF maximum Capacitance! ¹	
Sheath test	max. test voltage	10 kV
	trip current	0.1-5.0 mA
Sheath fault location ²	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 test lead	5 m with MC contact or additional clamp	
Software	b2 ControlCenter (included)	
Computer interfaces	RS232, USB flash drive	
Dimensions ³ L x W x H	450 x 340 x 520 mm	
Weight	57 kg	
Environment	temperature: storage: -25 °C to +70 °C, operating: -10 °C to +50 °C humidity: 5-85% non condensing	
Scope of supply	HVA68-2 testing device, Software – b2 ControlCenter, HV test lead 5 m, Power and earthing cable, USB Stick, RS232 - USB cable, Operating manual	
Options	External Tan Delta Diagnostics System TD60-MC, Partial Discharge with integrated Tan Delta Diagnostics System PDTD60-2	
Language	Please indicate desired language upon ordering.	

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

DHW1378 Rev05 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.