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The HVA30-7 is a truly compact and portable VLF test set which determines the condition of medium voltage cables. It performs VLF and DC testing, as well as sheath testing with sheath fault location mode (additional fault probe needed). It is also an HVA series member with a very high output current, up to 120 mA, extending greatly the load possibilities and testable length of a cable.

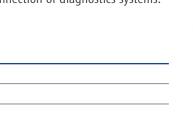
Performance: Outstanding features considering size and weight vs. output load. $6.0 \,\mu\text{F} @ 0.1 \,\text{Hz} @ 24 \,\text{kV}_{rms}$ in comparison to $0.8 \,\mu\text{F} @ 0.1 \,\text{Hz} @ 24 \,\text{kV}_{rms}$ (HVA34)

Duty cycle: No thermal limitation! You can use the test set continuously.

Safety first: Two independent discharge devices (electronic and mechanical discharging) and an integrated 12 kV backfeed protection system (at 50/60 Hz).

Connectivity: On-site, no external PC is needed. All results can be later downloaded via USB for further investigation and easy reporting via the b2 ControlCenter.

Solid HV connectors: Robust HV connectors allow the use of various HV test lead lengths, quick exchange through a replacement cable, or a simpler upgrade path for connection of diagnostics systems.





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Output voltage	max. 34 kV _{peak} , 24 kV _{rms}
Output load	6.0 µF @ 0.1 Hz @ 24 kV _{rms}
Weight	57 kg / 125.6 lbs

YOUR BENEFITS



TD AND PD DIAGNOSTICS HVA30-7 can be extended to a complete

cable diagnostic system at any time.



UNLIMITED OPERATING TIME HVA generators are designed for continuous operation without any thermal limitations.



DRY SYSTEM

HVA test sets are constructed with non-arcing contacts and no need to change oil. This eliminates routine servicing and makes the test sets almost maintenance-free.



COMPACT AND PORTABLE

Our HVA series have been designed for maximum portability and on-site use. It makes them widely applicable for in-field use.

- Pure sinusoidal output voltage (load-independent)
- Sheath fault pinpointing in combination with
- sheath fault locator (not included)
- Easily exchangeable HV test lead

- Breakdown voltage and load detection
- Real time oscilloscope of the output voltage on the HVA display
- Programmable test sequences with a tailor-made software tool
- Report downloads from the device via USB flash drive

DHV1448 Rev01 – \odot b2 electronics GmbH – Subject to change without notice.

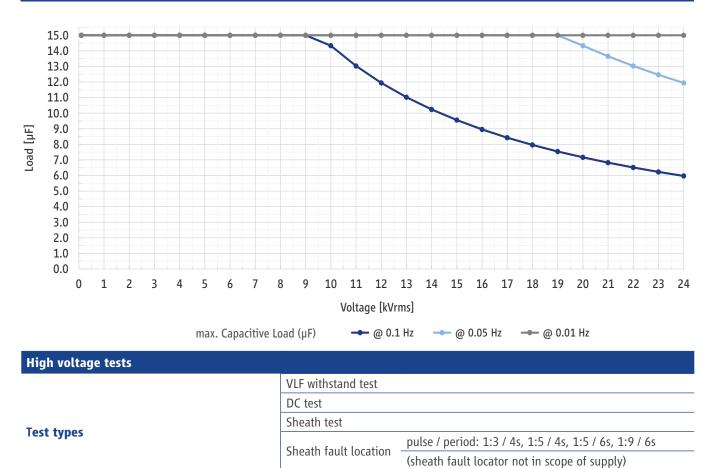


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TECHNICAL DATA

Output characteristics				
Output voltage	VLF sine wave	0 24 kV _{rms} / 0 34 kV _{peak}		
	DC	-34 kV 34 kV		
	VLF square wave	0 34 kV		
	Sheath test	0 10 kV (negative polarity)		
	Voltage setting resolution	0.1 kV		
	AC frequency range	0.01 Hz 0.1 Hz		
	Frequency setting resolution	0.01 Hz		
Output current	AC	90 mA _{rms} max.		
	DC	C 120 mA max.		
	Sheath test trip current	t 0.1 5 mA		
	Sheath fault location	35 mA max.		
Duty cycle		Continuous, no thermal limitation of operating time		

Load diagram for sine wave



Vacuum bottle test

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High voltage tests (continued)		
Test modes	Manual mode Automatic test sequences (user definable)	
Arc management modes	Burn on arc	
	Trip out on arc	
Compliance	VLF withstand testing according to IEEE 400.2 and the test standards DIN VDE 0276-620 (CENELEC HD 620 S2), DIN VDE 0276-621 (CENELEC HD 621 S1)	
	AC and sheath testing according to IEC 60502-2 / IEC 60229	

Metering					
	AC TrueRMS				
	Maximum display value	53 kV _{rms}			
	Resolution	0.1 kV _{rms}			
Output voltage	Accuracy	$\pm 0.1 kV_{rms} \pm 1\%$ of reading			
measurement range	DC				
	Maximum display value	75 kV			
	Resolution	0.1 kV			
	Accuracy	$\pm 0.1 \text{kV} \pm 1\%$ of reading			
	AC TrueRMS				
	Maximum display value	106 mA _{rms}			
	Resolution	0.1 / 1 / 10 / 100 μA _{rms}			
Output current	Accuracy	$\pm 1 \mu A_{rms} \pm 1\%$ of reading			
measurement range	DC				
	Max./min. display values	± 150 mA			
	Resolution	0.1 / 1 / 10 / 100 μΑ			
	Accuracy	$\pm 1 \mu A \pm 1\%$ of reading			
	Range	0.1ΜΩ 5 GΩ			
Resistance	Resolution	0.1 / 1 / 10 / 100 ΜΩ			
	Accuracy	typ. 10%			
	Range	Ο 30 μF			
Capacitance	Resolution	0.01 / 0.1 / 1nF and 0.01 / 0.1 µF			
	Accuracy	typ. 20%			
Flashover voltage		Full output voltage range			

Further characteristi	ics		
AC supply		190 240 V, 50/60 Hz, 3.000 VA	
Product safety		Backfeed protection: 12 kV at 50/60 Hz	
		DDD Dual Discharge Device (integrated electronic and mechanical discharge device)	
Environmental – conditions –	Operating temperature range		
	Storage temperature range	$-25 \pm 70^{\circ}$	
	Humidity	5 85%, non condensing	

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Further characteristics		
Data transfer	USB type A	
	R5232	
Poport management	Built-in memory: up to 50 reports, 40 test sequences	
Report management	USB flash drive: dependent on storage capacity	
PC software	b2 ControlCenter (included)	
	HVA ControlCenter (included)	
Dimensions L x W x H	450 x 340 x 520 mm	
	17.7 x 13.4 x 20.47 in	
Weight	57 kg / 125.6 lbs	

SCOPE OF SUPPLY

			Art. No.
HVA30-7 VLF High Voltage Test Set			SH5005
Included accessories	Р	cs.	Art. No.
HVA54-3 HV test lead 100 kV 5 m 150 mA MC14		1	GH0655
Earth lead 4 m 6 mm ² transparent M6/clamp		1	GH0522
Power chord country specific - Unit side C19		1	XKEK0002
HVA language specific manual		1	XDHV0005
HVA safety instructions multi language		1	DHV1440
HVA 1st generation data storage device with PC software		1	GZD5026
Extra Power-on key		1	KEC0007
Cable serial DB9 f/f Link 3 m		1	KEK0017
UC232R-10 "ChiPi" USB-RS232 Adapter		1	KEK0049

OPTIONALLY AVAILABLE

Additional Accessories	Art. No.	Diagnostics Options	Art. No.
Discharge Stick 60 kV 12 k Ω 8 kJ 1100 mm	GH0629	TD60-MC Tan Delta diagnostics system	SH5023
Transport case with wheels	VKR0009	PDTD60-2 PD & TD diagnostics system	SH5031
VKR0009 GH0629		ТD60-MC РDTD60-2	
