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The HVA34 is a perfectly suitable test set to determine the condition of medium voltage cables with a voltage rating up to 25 kV (acc. to IEEE 400.2-2013). Its compact design and unmatchable high voltage output power to weight ratio is second to none on the market and makes it an excellent option for cable testing up to 24 kV_{rms} and 34 kV_{peak} (sine wave operation). Beside the VLF and DC testing, the HVA34 performs also sheath testing with sheath fault location mode (here, however, additional fault probe is needed).

Performance: Outstanding features considering size and weight vs. output load.

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) provide the best possible protection for the user and the device.

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.



YOUR BENEFITS



Output voltage

Output load

Weight

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

20 kg / 44.1 lbs



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.



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.



PD AND TD DIAGNOSTICS

HVA34 can be extended to a complete cable diagnostic system at any time.

- 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

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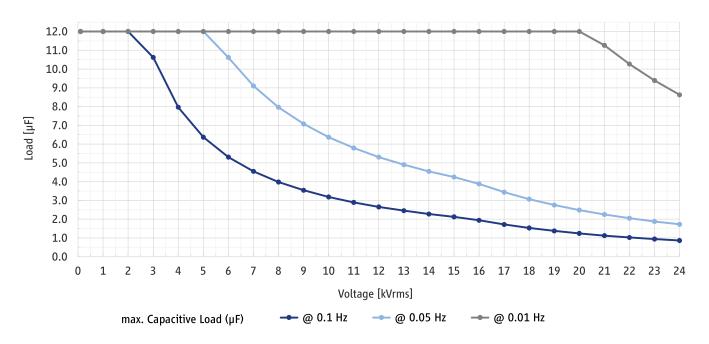


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TECHNICAL DATA

Output characteristics			
	VLF sine wave	e 0 24 kV _{rms} / 0 34 kV _{peak}	
	DC	-34 kV 34 kV	
	VLF square wave	0 34 kV	
Output voltage	Sheath test	0 10 kV (negative polarity)	
	Voltage setting resolution	n 0.1 kV	
	AC frequency range	0.01 Hz 0.1 Hz	
	Frequency setting resolution	0.01 Hz	
Output current	AC	20 mA _{rms} max.	
	DC	32 mA max.	
	Sheath test trip current	0.1 5 mA	
	Sheath fault location	17 mA max.	
Duty cycle		Continuous, no thermal limitation of operating time	

Load diagram for sine wave



High voltage tests			
	VLF withstand test		
	DC test		
Tost tunos	Sheath test		
Test types	Sheath fault location	pulse / period: 1:3 / 4s, 1:5 / 4s, 1:5 / 6s, 1:9 / 6s	
		(sheath fault locator not in scope of supply)	
	Vacuum bottle test		

Datasheet



High voltage tests (continued)		
Test modes	Manual mode Automatic test sequences (user definable)	
Arc management modes	Burn on arc	
Art management modes	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	35 kV _{rms}
	Resolution	0.1 kV _{rms}
Output voltage	Accuracy	$\pm 0.1 \text{kV}_{\text{rms}} \pm 1\%$ of reading
measurement range	DC	
	Maximum display value	50 kV
	Resolution	0.1kV
	Accuracy	$\pm 0.1 \text{kV} \pm 1\%$ of reading
	AC TrueRMS	
	Maximum display value	32 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	± 50 mA
	Resolution	0.1 / 1 / 10 / 100 μΑ
	Accuracy	
	Range	
Resistance	Resolution	0.1 / 1 / 10 / 100 ΜΩ
	Accuracy	typ. 10%
	Range	Ο 20 μF
Capacitance	Resolution	0.01 / 0.1 / 1 nF and 0.01 / 0.1 µF
	Accuracy	typ. 20%
Flashover voltage		Full output voltage range

Further characteristi	cs		
AC supply		110 240 V, 50/60 Hz, 1100 VA	
Product safety		Backfeed protection: 12 kV at 50/60 Hz	
		DDD Dual Discharge Device (integrated electronic and mechanical discharge device)	
		Connection for external interlock	
		Key switch (prevents unauthorized use)	
Environmental conditions	Operating temperature	-10 +50 °C	
	Storage temperature	-25 +70 °C	
	Humidity	5 85%, non condensing	

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Further characteristics		
Data transfer	USB type A	
	R5232	
Penert 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	430 x 250 x 360 mm	
	17 x 9.8 x 14.17 in	
Weight	20 kg / 44.1 lbs	

SCOPE OF SUPPLY

		Art. No.
HVA34 VLF High Voltage Test Set		SH5006
Included accessories	Pcs	Art. No.
HVA34 HV test lead 65 kV 4 m with 80 A clamp	1	GH0570
Earth lead 4 m 6 mm ² transparent M6/clamp	1	GH0522
Earth lead 4 m 6 mm ² yellow/green M6/M6	1	KEK0076
Power chord country specific - Unit side C13	1	XKEK0001
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 30 kV 6 k Ω 4 k] 750 mm	GH0628	TD30 Tan Delta diagnostics system	SH5021
Transport case	VKR0002	PD30-E Partial Discharge diagnostics system	SH5027
GH0628 GH0628 VKR0002		TD30 PD30-E	