

- VLF
- DC
- Jacket/Sheath Test
- Sheath Fault Location mode<sup>3</sup>
- Fault conditioning
- DDD<sup>®</sup>  
Dual Discharge Device (internal)
- USB Data Transfer

b2 High-Voltage  
is a business division of  
**b2 electronic GmbH**

Riedstraße 1  
6833 Klaus  
AUSTRIA

Tel. +43 (0)5523 57373  
Fax + 43 (0)5523 57373-5

www.b2hv.com  
info@b2hv.com



DHV1285 Rev02  
ENGLISH

Subject to alternations-  
Errors excepted  
Illustrations are not binding

# HVA34

## Portable and universal VLF High Voltage Test Set

b2 electronic HVA34 is an ultra-compact and lightweight VLF Test set. The HVA34 also have the highest power to weight ratio of any comparable unit. Apart from their variable frequency VLF output, the operator can also select dual polarity DC and cable jacket or sheath testing output modes. It also features both electronic and mechanical discharging of devices under test (DDD<sup>®</sup>), a 12kV feedback protection system and an unlimited duty cycle (dry system – no oil used) completing the performance of this outstanding HV System. The HVA34 can be upgraded with a Tan Delta (TD) Diagnosis System and a Partial Discharge (PD) Diagnosis System (both optional).



Type	HVA34	
Article number	SH0202	
Input Voltage	110 – 240 V 50/60 Hz (400 VA)	
Output Voltage	Sinusoidal	0 – 34 kV peak, 24 kV rms
	DC	± 0 – 34 kV
	Squarewave	34 kV
	Vacuum Bottle	34 kV
	Accuracy	± 1 %
	Resolution	0.1 kV
Output Current	0 – 15 mA (Resolution 1 µA) Accuracy: ± 1 %	
Sheath Test	Umax	10 kV
	Duration	1 min – 15 min
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location <sup>3</sup>	Unmax	10 kV
	Duration	1 min – 60 min
	Pulse/Period	1:3/4 s, 1:5/4 s, 1:5/6 s, 1:9/6 s
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 selection	
Output Load	0.5 µF @ 0.1 Hz @ 24 kV rms (Approx 1,700 m of cable) <sup>2</sup> 1.0 µF @ 0.05 Hz @ 24 kV rms (Approx 3,300 m of cable) <sup>2</sup> 2.5 µF @ 0.02 Hz @ 24 kV rms (Approx. 8,300 m of cable) <sup>2</sup> 12.0 µF maximum Capacitance! <sup>1</sup>	
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	50 Hz – 12 kV Feedback Protection / Dual Discharge Device (Internal)	
Memory	50 Test Records Stored	
Metering	Voltage and Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
Duty	Continuous! No thermal limitation for operating time.	
HV Cable	4.5 m with Alligator clamps on end (other options available on request)	
Software	„HVA Control Center“	
Computer interfaces	RS232	•
	USB	Flash Drive
Environmental conditions	Storage: -25°C to + 70°C, Operating: -10°C to + 50°C	
Dimensions L x W x H	430 x 250 x 360 mm	
Weight	19.5 kg	
Upgrades (Optional)	Tan Delta TD30 and Partial Discharge System PD30	

<sup>1</sup> At lower frequency and voltage

<sup>2</sup> Based on a typical cable: 300 pF/m

<sup>3</sup> In combination with locator set (not in scope of supply)