

- VLF
- DC
- Jacket/Sheath
- Fault conditioning

HVA60

Portable and universal VLF High Voltage Test Set

Large output load capability up to 10 μF ¹

The high power HVA60 Test System is capable of testing cables up to 3,300 m (1 μF at 0.1 Hz and 44 kV rms).

The variable output frequency allows the testing of even much longer cables. At 10 μF – 0.01 Hz and 44 kV rms a length of approx 33,000 m can be tested (see technical data).



Type	HVA60	
Article number	SH0203	
Input Voltage	110 – 240 V 50/60 Hz (1.5 kVA)	
Output Voltage	Sinusoidal	0 – 62 kV peak, 44 kV rms
	DC	± 0 – 60 kV
	Squarewave	60 kV
	Vacuum Bottle	60 kV
	Accuracy	± 1 %
	Resolution	0.1 kV
Output Current	0 – 40 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 ³	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 M Ω ...5 G Ω	
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) – auto frequency selection	
Output Load	1.0 μF @ 0.1 Hz @ 44 kV rms (Approx 3,300 m of cable) ² 2.0 μF @ 0.05 Hz @ 44 kV rms (Approx 6,600 m of cable) ² 5.0 μF @ 0.02 Hz @ 44 kV rms (Approx 16,600 m of cable) ² 10 μF maximum Capacitance! ¹	
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 / Discharge unit	
Memory	50 Test Records Stored	
Metering	Voltage an Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
Duty	Continuous! No thermal limitation for operating time.	
HV Cable	5 m with Alligator clamps on end (other options available on request)	
Software	„HVA Control Center“	
Computer interfaces	RS232	•
	USB	Flash Drive (Option)
Environmental conditions	Storage: -25°C to + 70°C, Operating: -10°C to + 50°C	
Dimensions L x W x H	450 x 340 x 520 mm	
Weight	57 kg	
Upgrades (Optional)	Tan Delta TD60, TD60-MC and Partial Discharge System PDTD60-2	

¹ At lower frequency and voltage

² Based on a typical cable: 300 pF/m

³ In combination with locator set (not in scope of supply)

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.at
info@b2hv.at



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