MUSHOR Technology مشور تكنولوجي
VALUE ADDED DISTRIBUTOR

Authorized distributor of **b2 electronics**
in the Kingdom of Saudi Arabia

B2 ELECTRONICS

HVA68TD

VLF High Voltage Test Set with integrated Tan Delta diagnostics

The b2 electronics HVA68TD is a compact, portable VLF test set for assessing medium-voltage cables rated up to 46 kV, in accordance with IEEE 400.2. It performs VLF testing with sine and square wave, DC testing, sheath testing and sheath fault location (additional sheath fault locator needed).

Its Tan Delta diagnostics unit is built in, and it runs the Monitored Withstand Test (MWT) per IEEE 400.2. With its high output power it tests cables up to 7 km long at 48 kVrms and 0.1 Hz (250 pF/m, 1.7 µF load), or several phases in parallel.

If the cable breaks down during a VLF test, Arc Pre-Location (APL) gives the distance to the failure. Results are stored on the unit and downloaded via USB or Bluetooth for reporting with b2 ControlCenter, so no laptop is needed on site.



OUTPUT VOLTAGE	OUTPUT LOAD	CABLE RATING	WEIGHT
68 kVpeak / 48 kVrms	**1.7 µF @ 0.1 Hz**	**Up to 46 kV**	**63 kg**

KEY FEATURES

- Max 68 kVpeak / 48 kVrms output
- For MV cables rated up to 46 kV (IEEE 400.2)
- Integrated Tan Delta diagnostics
- Monitored Withstand Test (MWT) per IEEE 400.2
- Arc Pre-Location (APL): distance to the failure point
- VLF sine and square wave, DC, sheath and vacuum bottle tests
- Load-independent pure sinusoidal output
- Continuous operation, no thermal limitation
- Dual electronic and mechanical discharge
- 12 kV backfeed protection (50/60 Hz)
- USB and Bluetooth, b2 ControlCenter included
- Expandable with b2 PD or PDTD diagnostics (e.g. PDTD68)

Contact Mushor Technology — Authorized b2 electronics distributor in Saudi Arabia

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TECHNICAL DATA — HVA68TD

VLF sine wave	0 … 68 kVpeak | 0 … 48 kVrms
DC	−68 kV … +68 kV
VLF square wave	0 … 68 kV
Sheath test	0 … 15 kV (negative polarity)
Frequency range	0.01 Hz … 0.1 Hz (0.01 Hz steps)
Output current	AC 56 mArms max. | DC 100 mA max.
Output load	1.7 µF @ 0.1 Hz @ 48 kVrms
Test capability	Cables up to 7 km at 48 kVrms, 0.1 Hz (250 pF/m)
Duty cycle	Continuous, no thermal limitation of operating time
Test types	VLF withstand, VLF Tan Delta, Monitored withstand, DC, sheath test, sheath fault location, vacuum bottle test
Tan Delta (10 nF … 10 µF)	Range 0.1 … 999 E-3 | resolution 0.01 E-3 (mean) | accuracy ±0.1 E-3
Arc Pre-Location	80 m … 10 km | resolution 0.1 m
Compliance	IEEE 400.2; DIN VDE 0276-620 (HD 620 S2), DIN VDE 0276-621 (HD 621 S1); IEC 60502-2 / IEC 60229
Safety	Dual Discharge Device, 12 kV backfeed protection, external interlock connector, key switch
Data	USB type A, Bluetooth; memory for 50 reports and 50 test sequences
AC supply	190 … 240 V, 50/60 Hz, 3,000 VA (120 V operation: 1,500 VA)
Environment	Operating −10 … +55 °C | altitude up to 3,500 m | IP42 (lid closed)
Dimensions / weight	593 × 340 × 513 mm | 63 kg

SCOPE OF SUPPLY & OPTIONS

Included	HVA68TD test set, HV test lead with DUT adapters, grounding cable, corona spheres, guard connection cables, Bluetooth USB adapter, power cord, b2 ControlCenter software and documentation on USB drive
Optional	Discharge stick 60 kV; transport case with wheels
Suggested diagnostics	b2 PDTD68 VLF diagnostics system (partial discharge + Tan Delta)

Technical data from b2 electronics datasheet DHV1472 Rev07. Specifications are subject to change by the manufacturer without notice.

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