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

B2 ELECTRONICS

HVA45TD

VLF High Voltage Test Set with integrated Tan Delta

The b2 electronics HVA45TD is a compact, portable VLF test set for assessing the condition of medium-voltage cables up to 25 kV, in accordance with IEEE 400.2. Besides VLF testing with sine and square wave and DC testing, it performs sheath testing and sheath fault location (an additional sheath fault locator is needed). Its integrated Tan Delta diagnostics unit measures with an accuracy of ±0.1 × 10^{-3} and enables the Monitored Withstand Test (MWT) per IEEE 400.2.



It can test cables up to 4 km long at 32 kVrms and 0.1 Hz (250 pF/m, 0.9 µF load), and its duty cycle is continuous with no thermal limitation. It comes as a trolley version with integrated wheels, and the rugged case is rated IP67 with the lid closed, so no extra transport box is needed. Results are stored on the unit and downloaded via USB or Bluetooth for reporting with b2 ControlCenter (included) or b2 Suite, so no laptop is needed on site. An optional +4 kV upgrade raises the output to 49 kVpeak / 34.6 kVrms (0.8 µF at 34 kVrms).

OUTPUT VOLTAGE	OUTPUT LOAD	CABLE RATING	WEIGHT
45 kVpeak / 32.3 kVrms	**0.9 µF @ 32 kVrms**	**Up to 25 kV**	**39 kg**

KEY FEATURES

- Max 45 kVpeak / 32.3 kVrms output
- For MV cables up to 25 kV (IEEE 400.2)
- Integrated Tan Delta, accuracy ±0.1 × 10^{-3}
- Monitored Withstand Test (MWT) per IEEE 400.2
- VLF sine and square wave, DC, sheath and vacuum bottle tests
- Load-independent pure sinusoidal output
- Continuous operation, no thermal limitation
- Electronic and mechanical discharge, 12 kV backfeed protection
- IP67 with the lid closed, trolley version
- USB and Bluetooth, b2 ControlCenter included

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TECHNICAL DATA — HVA45TD

Output voltage	VLF sine 0–45 kVpeak / 0–32.3 kVrms (+4 kV option: 0–49 kVpeak / 0–34.6 kVrms); DC −45 to +45 kV; VLF square 0–45 kV; sheath test 0–15 kV (negative)
Frequency	0.01–0.1 Hz, setting resolution 0.01 Hz
Output load	0.9 µF @ 0.1 Hz @ 32 kVrms; +4 kV option: 0.8 µF @ 0.1 Hz @ 34 kVrms
Test capability	Cables up to 4 km (250 pF/m) at 32 kVrms, 0.1 Hz
Output current	AC 30 mArms max., DC 45 mA max.; sheath test trip 0.1–10 mA; sheath fault location 25 mA max.
Test types	VLF withstand, DC, sheath test, sheath fault location, vacuum bottle test, VLF Tan Delta, Monitored Withstand Test
Tan Delta	Range 0.1–999 E-3, accuracy ±0.1 E-3
Compliance	IEEE 400.2; DIN VDE 0276-620 (CENELEC HD 620 S2), DIN VDE 0276-621 (CENELEC HD 621 S1); IEC 60502-2 / IEC 60229
Safety	Dual Discharge Device, 12 kV backfeed protection (50/60 Hz), external interlock, key switch
Data	USB, Bluetooth; memory for 50 reports and 50 test sequences; b2 ControlCenter included
Power supply	100–240 V, 50/60 Hz, 1,200 VA
Operating temperature	−20 to +55 °C, IP67 (lid closed)
Dimensions / weight	500 × 305 × 457 mm / 39 kg

DIAGNOSTICS & OPTIONS

Suggested diagnostics	b2 PDTD68 (PD & TD), b2 TD60-MC (Tan Delta)
Software	b2 ControlCenter included; b2 Suite supported via Bluetooth

Technical data from b2 electronics datasheet DHV1453 Rev01. Specifications are subject to change by the manufacturer without notice.

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