MUSHOR Technology مشور تكنولوجي
VALUE ADDED DISTRIBUTOR

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

B2 ELECTRONICS

HVA120

VLF High Voltage Test Set

The b2 electronics HVA120 is a VLF test set with a robust design and a strong power-to-weight ratio for routine cable testing in the field. It assesses the condition of medium-voltage cables up to 69 kV in accordance with IEEE 400.2, and 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).

It can test cables up to 2 km long at 85 kVrms and 0.1 Hz (250 pF/m, 0.5 µF load). The output stays purely sinusoidal over the entire power range, operating time has no thermal limit, and the dry system with non-arcing contacts needs no oil changes. Results are stored on the unit and downloaded via USB for reporting with b2 ControlCenter, so no laptop is needed on site.



OUTPUT VOLTAGE	OUTPUT LOAD	CABLE RATING	WEIGHT
120 kVpeak / 85 kVrms	**0.5 µF @ 85 kVrms**	**Up to 69 kV**	**198 kg**

KEY FEATURES

- Max 120 kVpeak / 85 kVrms output
- For MV cables up to 69 kV (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
- Breakdown and load detection, real-time oscilloscope display
- Dry system, no oil changes
- Expandable with b2 PD, TD or PDTD diagnostics such as the PDTD120-2

Contact Mushor Technology — Authorized b2 electronics distributor in Saudi Arabia

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TECHNICAL DATA — HVA120

Output voltage	VLF sine 0–120 kVpeak / 0–85 kVrms; DC −100 to +100 kV; VLF square 0–100 kV; sheath test 0–10 kV (negative)
Frequency	0.01–0.1 Hz, setting resolution 0.01 Hz
Output load	0.5 µF @ 0.1 Hz @ 85 kVrms
Test capability	Cables up to 2 km (250 pF/m) at 85 kVrms, 0.1 Hz
Output current	AC 56 mArms max., DC 80 mA max.; sheath test trip 0.1–5 mA; sheath fault location 40 mA max.
Test types	VLF withstand, DC, sheath test, sheath fault location, vacuum bottle test
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, RS232; memory for 50 reports and 40 test sequences; b2 ControlCenter and HVA ControlCenter included
Power supply	210–240 V, 50/60 Hz, 3,000 VA
Operating temperature	−5 to +45 °C
Dimensions / weight	790 × 445 × 740 mm / 198 kg

DIAGNOSTICS & OPTIONS

Suggested diagnostics	b2 PDTD120-2 (PD & TD), b2 TD120-MC (Tan Delta)
Optional accessory	Transport case with wheels
Software	b2 ControlCenter included; HVA ControlCenter included

Technical data from b2 electronics datasheet DHV1447 Rev03. Specifications are subject to change by the manufacturer without notice.

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