MUSHOR Technology مشور تكنولوجي
VALUE ADDED DISTRIBUTOR

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

B2 ELECTRONICS

HVA40-5

VLF High Voltage Test Set — Extra Power

The b2 electronics HVA40-5 is a member of the HVA series with extra power, with an output current up to 120 mA, which greatly extends the maximum load and the testable cable length. It assesses the condition of medium-voltage cables up to 25 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 more than 15 km long at 32 kVrms and 0.1 Hz (250 pF/m, 3.8 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
45 kVpeak / 32 kVrms	**3.8 µF @ 32 kVrms**	**Up to 25 kV**	**57 kg**

KEY FEATURES

- Max 45 kVpeak / 32 kVrms output
- For MV cables up to 25 kV (IEEE 400.2)
- Extra power: output current up to 120 mA DC
- 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 PDTD68

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TECHNICAL DATA — HVA40-5

Output voltage	VLF sine 0–45 kVpeak / 0–32 kVrms; DC −45 to +45 kV; VLF square 0–45 kV; sheath test 0–10 kV (negative)
Frequency	0.01–0.1 Hz, setting resolution 0.01 Hz
Output load	3.8 µF @ 0.1 Hz @ 32 kVrms
Test capability	Cables more than 15 km (250 pF/m) at 32 kVrms, 0.1 Hz
Output current	AC 85 mArms max., DC 120 mA max.; sheath test trip 0.1–5 mA; sheath fault location 35 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	190–240 V, 50/60 Hz, 3,000 VA
Operating temperature	−10 to +50 °C
Dimensions / weight	450 × 340 × 520 mm / 57 kg

DIAGNOSTICS & OPTIONS

Suggested diagnostics	b2 PDTD68 (PD & TD), b2 TD60-MC (Tan Delta)
Optional accessory	Flight case with wheels
Software	b2 ControlCenter included; HVA ControlCenter included

Technical data from b2 electronics datasheet DHV1449 Rev01. Specifications are subject to change by the manufacturer without notice.

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