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VALUE ADDED DISTRIBUTOR

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

B2 ELECTRONICS

# HVA54-3

## VLF High Voltage Test Set — Extra Power

The b2 electronics HVA54-3 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 30 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 11 km long at 38 kVrms and 0.1 Hz (250 pF/m, 2.7 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 |
|---|---|---|---|
| **54 kVpeak / 38 kVrms** | **2.7 µF @ 38 kVrms** | **Up to 30 kV** | **57 kg** |

## KEY FEATURES

- Max 54 kVpeak / 38 kVrms output
- For MV cables up to 30 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 — HVA54-3

| | |
|---|---|
| **Output voltage** | VLF sine 0–54 kVpeak / 0–38 kVrms; DC −54 to +54 kV; VLF square 0–54 kV; sheath test 0–10 kV (negative) |
| **Frequency** | 0.01–0.1 Hz, setting resolution 0.01 Hz |
| **Output load** | 2.7 µF @ 0.1 Hz @ 38 kVrms |
| **Test capability** | Cables up to 11 km (250 pF/m) at 38 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 DHV1450 Rev01. Specifications are subject to change by the manufacturer without notice.

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