The HVA28 is a truly compact and portable VLF test set system for testing medium voltage cables. It performs VLF and DC testing, sheath testing and sheath fault location modes. The system can be retrofitted with internal Tan Delta Diagnostics upgrade (as HVA28TD).

**Performance:** the HVA28 offers outstanding features in terms of size, weight (14 kg) and performance (max. 10 µF).

**Safety:** the instrument has two independent earthing devices (electronic and mechanical discharging) and an integrated 12 kV feedback protection system to protect both operator and instrument.

**Field use:** a watertight and very rugged case with a protection class of IP67 makes additional transport boxes obsolete.

**Connectivity:** on site, no external PC is needed. All results can be downloaded later by USB or Bluetooth for further investigation and easy report creation on the PC Software.

**Unlimited operating time:** Operating time of the HVA high voltage generators are not thermally limited and can be operated continuously.

### Features

- **Output voltage** 29 kV<sub>peak</sub>, 21 kV<sub>rms</sub>
- **Pure sinusoidal output voltage** (load-independent)
- **Output current** 20 mA max.
- **0.5 µF @ 0.1 Hz @ 20 kV rms**
- **Highest test capacity of 10µF**
- **Ultra light and compact weight (14 kg)**
- **Protection class IP67 with closed lid**
- **Total protection: almost unbreakable, watertight, dustproof and corrosion proof case**
- **Large Colour display (4.3”)**
- **USB and Bluetooth connections**
- **Cable testing according:**
  - Programmable test sequences
  - Upgradable with Partial Discharge and Tan Delta diagnostics system (optional)
  - 12 kV transient protection (50 Hz)
- **Dual Discharge Device (DDD®), integrated electronic and mechanical discharge devices**
- **Easily exchangeable HV cable**
- **Intuitive menu operation**
- **Sheath Fault Locating (in combination with Earth Fault Locator) (not included)**
- **Vacuum Bottle Test**
- **Insulation Testing**

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**HV Diagnostics**

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**www.b2hv.at**
## HVA28

### Type

<table>
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<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Article number</td>
<td>SH5001</td>
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<tr>
<td>Input voltage</td>
<td>100-240 V, 50/60 Hz, 400 VA</td>
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### Output voltage

- **VLF sine wave**: 0-29 kV peak, 21 kV rms
- **DC**: ± 0-28 kV
- **VLF square wave**: 0-28 kV
- **accuracy**: ± 1%
- **resolution**: 0.1 kV

### Output current

0-20 mA

### Resistance range

0.1 MΩ-5 GΩ

### Output frequency

0.01-0.1 Hz in steps of 0.01 Hz
- **default**: 0.1 Hz (auto frequency)

### Output load

- **max. test voltage**: 10 kV
- **trip current**: 0.1-5.0 mA
- **max. test voltage**: 10 kV
- **Pulse/Period**: 1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s

### Output Modes

AC (VLF) Symmetrical and load independent across full range, DC (plus or negative polarity), Burn-/Fault Condition or Fault Trip Mode, Jacket/Sheath Testing

### Safety

12 kV/50 Hz Feedback Protection | integrated electronic and mechanical discharge devices - DDD®: Dual Discharge Device (internal)

### Memory

50 Test Record Stored, USB almost unlimited

### Metering

Voltage and Current (True rms and/or peak), Capacitance, Resistance, Time, Flashover Voltage

### Duty cycle

Continuous! No thermal limitation for operating time.

### HV-Cable

4 m with alligator clamps

### Software

"b2 Control Center" (included)

### Computer interfaces

Bluetooth and USB flash drive

### Dimensions LxWxH

416 x 221 x 334 mm (Peli Case)

### Weight

14 kg

### Environment

- **temperature**: storage -25°C to +70°C, operating -20°C to +55°C
- **humidity**: 5-85 % non condensing

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### Options

- Internal/external Tan Delta diagnostics system
- Partial Discharge diagnostics system

### Scope of delivery

- HVA28 testing device
- PC Software - b2 ControlCenter
- HV cable 4 m
- Power and earthing cable
- Accessory bag
- USB Stick
- Operating manual