The HVA45 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 mode.

**Performance** - the HVA45 offers outstanding features in terms of size, weight (36 kg) and performance (max. 10 µF). A dry design (no oil inside) makes the instruments nearly maintenance free.

**Safety** - The instrument has two independent earthing devices (electronic and mechanical dischar -

ing) 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.

**Features**

- Output voltage 45 kV\(_{peak}\) 32 kV\(_{rms}\)
- Pure sinusoidal output voltage (load-independent)
- Output current 60 mA max.
- Highest test capacity of 10µF
- Ultra light and compact weight (36 kg)
- Total protection – almost unbreakable, watertight, dustproof and corrosion proof case
- Protection class IP67 (with closed lid)
- Large Colour display (4,3“)
- USB and Bluetooth connections
- Programmable test sequences
- Upgradable with partial discharge diagnostic and Tan Delta system (optional)
- Integrated 12kV transient protection (50 Hz)
- Dual Discharge Device (DDD\(^*\)), two integrated and automatic discharge devices
- Easily exchangeable HV cable
- Intuitive menu operation
- Sheath Fault Locating (in combination with Earth Fault Locator\(^*\))
- Vacuum Bottle Test
- Insulation Testing

\(^*not included\)
**HVA45**  
**VLF High Voltage Test Set**

### Typ

<table>
<thead>
<tr>
<th>Article number</th>
<th>SH0260</th>
</tr>
</thead>
</table>

| Input Voltage   | 100 – 230 V, 50/60 Hz, 1200 VA |

### Output Voltage

<table>
<thead>
<tr>
<th>Voltage Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sinusoidal</td>
<td>0 – 45 kV peak, 32 kV rms</td>
</tr>
<tr>
<td>DC</td>
<td>± 0 – 45 kV</td>
</tr>
<tr>
<td>Squarewave</td>
<td>0 - 45 kV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 1%</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1 kV</td>
</tr>
</tbody>
</table>

### Output Current

| Current          | 0 – 60 mA (Resolution 1 µA) | Accuracy: ±1% |

### Resistance Range

| Range            | 0.1 MΩ…5 GΩ                 |

### Output Frequency

| Frequency        | 0.01 … 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency |

### Output Load

| Load             | 1.0 µF @ 0.1 Hz @ 32kV rms |

### Sheath Test

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unmax Sheath</td>
<td>10 kV</td>
</tr>
<tr>
<td>Trip Current</td>
<td>0.1 mA – 5.0 mA</td>
</tr>
</tbody>
</table>

### Sheath Fault Location

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unmax</td>
<td>10 kV</td>
</tr>
<tr>
<td>Pulse/Period</td>
<td>1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s</td>
</tr>
</tbody>
</table>

### 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

- 50 Hz 12 kV Feedback Protection / 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

### HV-Cable

- 5 m with clamps

### Software

- "b² Control Center" (included)

### Computer interfaces

- Bluetooth standard
- USB standard

### Dimensions LxBxH / Weight

- 500 x 305 x 457 mm (Peli Case) / 36 kg

### Environmental conditions

- 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**

- HVA45 Testing Device
- PC Software - b² ControlCenter
- HV cable 5 m
- Power and earthing cable
- Accessory Bag
- USB Stick
- Operating Manual