

HVA34-1

the smallest VLF test system of its performance class



VLF 0.1 Hz
34 kV_{peak}



39 kg



upgradeable with
integrated TD



The **HVA34-1** 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 HV34TD-1).

Performance: the HVA34-1 offers outstanding features in terms of size, weight (39 kg) and performance (max. 10 μ F).

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.



USB
Bluetooth



IP67



Color
Display
4.3"

Features

- Output voltage 34 kV_{peak} / 24 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Output current 60 mA max.
- 1.5 μ F @ 0.1 Hz @ 24 kV rms
- Highest test capacity of 10 μ F
- Ultra light and compact weight (39 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: CENELEC HD 620/621, IEEE 400.2-2004, IEC60502-2:2014
- 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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HVA34-1

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dry system



upgradeable to
PD and TD
diagnostics system



unlimited
operating time



Trolley type

| Type | | HVA34-1 |
|------------------------------------|-------------------|--|
| Article number | | SH5007 |
| Input voltage | | 100-240 V, 50/60 Hz, 1200 VA |
| Output voltage | VLF sine wave | 0-34 kV peak, 24 kV rms |
| | DC | ± 0-34 kV |
| | VLF square wave | 0-34 kV |
| | accuracy | ± 1 % |
| | resolution | 0.1 kV |
| Output current | | 0-60 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 | | 1.5 µF @ 0.1 Hz @ 24 kV rms 2.8 µF @ 0.1 Hz @ 18 kV rms 10.0 µF maximum capacitance! ¹ |
| Sheath test | max. test voltage | 10 kV |
| | trip current | 0.1-5.0 mA |
| Sheath fault location ² | 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 | | 5 m with clamps |
| Software | | "b2 ControlCenter" (included) |
| Computer interfaces | | Bluetooth and USB flash drive |
| Dimensions LxWxH | | 500 x 305 x 457 mm (Peli Case) |
| Weight | | 39 kg |
| Environment | | temperature: storage -25°C to + 70°C, operating -20°C to + 55°C humidity: 5-85 % non condensing |

¹ at lower frequency and voltage | ² in combination with locating device (not in scope of supply)

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DHV1379 Rev02 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



Options

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

Scope of delivery

- HVA34-1 testing device
- PC Software - b2 ControlCenter
- HV cable 5 m
- Power and earthing cable
- Accessory bag
- USB Stick
- Operating manual