# VLF sine wave 34 kV Test system for medium voltage cables



- High test capacity of 5 μF
- Suitable for outdoor use (IP 54)
- Single-button operation
- Integrated safety system
- Reporting
- Continuous duty cycle

# **DESCRIPTION**

The **VLF sine wave 34 kV** is a compact, robust and portable VLF sine wave test system for medium voltage cables.

The design, optimized for rapid transportation and quick setup, and the continuous duty cycle make the system an ideal tool for routine cable testing.

For both 0.1 Hz sine wave voltage tests and rectangular or DC voltage tests, the **VLF sine wave 34 kV** fulfils the highest demands of test voltage quality and stability. Moreover, the integrated "breakdown detection" shuts down the test voltage in the event of an excessive charge current and guarantees limited damage to the cable.

Consistent single-button operation combined with a sophisticated operating concept allows fast and targeted use of the system.

The integrated USB port enables seamless reporting.

The **VLF Sine Wave 34 kV** is a multi-purpose device: it can be used for cable testing, sheath testing, and in combination with the optional step voltage probe ESG NT, for sheath fault pinpointing.

The system can also be used as a voltage source for the optional tanDelta measurement and partial discharge attachments and can be easily expanded to a universal testing and diagnostic system.

# Megger.

# **TECHNICAL DATA\***

#### **Output voltage**

 $\label{eq:VLF sine wave} {\rm VLF\, sine\,\, wave} \qquad \qquad 0\, \dots\, 24\, kV_{_{RMS}}\, /\, 0\, \dots\, 34\, kV_{_{peak}}$ 

 $\begin{array}{lll} \textbf{DC voltage} & \pm 0 \dots 34 \, \text{kV} \\ \textbf{VFL rectangular voltage} & 0 \dots 34 \, \text{kV} \\ \textbf{Precision} & \pm 1 \, \% \\ \textbf{Resolution} & 0.1 \, \text{kV} \end{array}$ 

# **Output current**

Input voltage

 $\begin{tabular}{lll} \mbox{Measuring range} & 0 & ... & 14 \mbox{ mA} \end{tabular}$   $\begin{tabular}{lll} \mbox{Precision} & \pm 1 \mbox{ \%} \end{tabular}$   $\begin{tabular}{lll} \mbox{Resolution} & 1 \mbox{ $\mu$A} \end{tabular}$ 

Frequency range 0.01 Hz ... 0.1 Hz

autom. frequency adjustment

 $\textbf{Output} \hspace{1cm} \textbf{0.6}\,\mu\text{F} \textbf{@} \,\textbf{0.1}\,\text{Hz bei}\,\textbf{24}\,\text{kV}_{\text{RMS}}$ 

 $5 \, \mu F @ 0.01 \, Hz \, bei \, 21 \, kV_{RMS}$   $100 \, V \, \dots \, 260 \, V, \, 50/60 \, Hz,$ 

400 VA

**Sheath testing**  $0 \dots 5 \text{ kV}, 0 \dots 10 \text{ kV DC}$ **Sheath fault pinpointing**  $0 \dots 5 \text{ kV}, 0 \dots 10 \text{ kV DC},$ 

Pulse rate 1:3 and 1:4

**Safety** Earth loop ground monitoring,

autom.discharging of the test

object

**Dimensions (W x H x D)** 520 x 450 x 300 mm

Weight 25 kg Protection class IP 20/IP 54

(operation/transportation)

Operating temperature  $-20 \,^{\circ}\text{C} \dots +55 \,^{\circ}\text{C}$ Storage temperature  $-25 \,^{\circ}\text{C} \dots +70 \,^{\circ}\text{C}$ 

# **FEATURES**

- Testing without operational interruptions
- AC testing in compliance with DIN VDE, EN, IEEE
- Compact, rugged, lightweight and IP 54 for transportation
- Sheath testing and sheath fault pin-pointing acc. to IEC 60229
- Maximises user safety through automatic discharge of the test object and earth loop ground monitoring
- Breakdown detection and load recognition (R, C)
- Quick & easy logging, and updates via USB port

# **SCOPE OF DELIVERY**

- VLF sine wave 34 kV
- Accessory bag
- HV connection cable 5 m
- Mains cable / grounding cable
- USB stick for reporting
- Easyprot reporting software

ORDERING INFORMATION	
Product	Order no.
VLF sine wave 34 kV	890026134-S
Options:	
HV connection cable 15 m	118303277
Return voltage recognition	128309611
tanDelta attachement	820020283
PD attachement	1007582
ESG NT	1004629-S
ESG NT	

#### GERMANY

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<sup>\*</sup> We reserve the right to make technical changes.