

VLF Sinus 54 kV

Test system for medium-voltage cables



- For integration in test vans
- High test capacity up to 5 μ F
- Single-button operation via Centrix or Teleflex notebook
- Integrated safety system
- Reporting via USB
- Expandable with tanDelta or PD attachment

DESCRIPTION

The VLF Sinus 54 kV is the ideal system for all users who want or have to perform a test with a genuine 0.1 Hz sine wave voltage. The VLF testing system can be integrated perfectly in a fault location system or used in combination with the optional tan delta test attachment or PD attachment as part of a diagnostic test van.

The VLF Sinus 54 kV always fulfils the highest demands regarding quality and stability of test voltages for 0.1 Hz sine wave voltages and when testing with square wave and DC voltages. Moreover, the integrated "break-down recognition", which disconnects the test voltage and earth the test object if a load current is too high, ensures easy and safe operation.

Depending on how the system is integrated, the VLF Sinus 54kV can be operated intuitively through the built-in operator guide, notebook, Centrix control panel, or via a Teleflex SX or VX.

Logs can be conveniently created in .csv format using a USB stick, enabling further data processing. Data is also saved in Easyprot format (software supplied) for clear and structured reports.

Used together with the optional ESG NT step voltage probe, sheath faults can be precisely pinpointed using the step voltage method.

Moreover, the VLF Sinus 54 kV can be upgraded to become an accurate testing and diagnostic system with the optional tan delta test attachment or PD attachment.

TECHNICAL DATA*

Output voltage

VLF sine wave	0 ... 38 kV _{RMS}
DC voltage	± 0 ... 54 kV
Square wave voltage	0 ... 54 kV
Accuracy	± 1 %
Resolution	0.1 kV

Output current

Measuring range	0 ... 35 mA
Accuracy	± 1 %
Resolution	10 µA

Frequency range	0.01 Hz ... 0,1 Hz autom. frequency adjustment
-----------------	---------------------------------------------------

Output	1 µF @ 0.1 Hz at 38 kV _{RMS} 5 µF @ 0.01 Hz at 38 kV _{RMS}
--------	---------------------------------------------------------------------------------

Input voltage	100 V ... 260 V, 50/60 Hz, 1200 VA
---------------	---------------------------------------

Sheath testing	0 ... 5 kV, 0 ... 10 kVDC
----------------	---------------------------

Sheath fault pinpointing	0 ... 5 kV, 0 ... 10 kVDC, Pulse ratio 1:3 and 1:4
--------------------------	-------------------------------------------------------

Safety	F-Ω earthing monitoring, autom. discharges the test object
--------	---------------------------------------------------------------

Dimensions (W x H x D)	1000 x 600 x 500 mm
------------------------	---------------------

Weight	approx. 110 kg
--------	----------------

Protection class	IP 20
------------------	-------

Operating temperature	- 25 °C ... + 55 °C
-----------------------	---------------------

Storage temperature	- 25 °C ... + 70 °C
---------------------	---------------------

FEATURES

- AC testing acc. to IEC, IEEE and CENELEC
- Capable of testing 35 kV rated cables and diagnosing 45 kV rated cables acc. to IEEE
- Sheath testing and sheath fault location acc. to IEC 60229
- Programmable test sequences
- Maximum user safety thanks to the integrated safety system
- Breakdown detection and load recognition (R, C)
- Quick and convenient logging and updating via USB port
- Ideal as a component in the diagnostic test van

ORDERING INFORMATION

Product	Order no.
VLF Sinus 54 kV Centrix 1 integration	890027200
VLF Sinus 54 kV Centrix 3 integration	890027100
VLF Sinus 54 kV Classic/Variant/Diagnostic test van integration	128310950-S
Options:	
tanDelta attachment	820020283
PD attachment	1007582
ESG NT	1004629-S

* We reserve the right to make technical changes.

GERMANY

Megger GmbH
Obere Zeil 2
D-61440 Oberursel
T +49 6171 92987 0
F +49 6171 92987 19
info@megger.de

Seba Dynatronic
Mess- und Ortungstechnik GmbH
Dr.-Herbert-lann-Str. 6
96148 Baunach
T +49 (0) 9544 680
F +49 (0) 9544 2273
team.dach@megger.de

Hagenuk KMT
Kabelmesstechnik GmbH
Röderaue 41
01471 Radeburg
T +49 (0) 35208 840
F +49 (0) 35208 84249
team.dach@megger.de

CERTIFICATION ISO

Registered to ISO 9001 Cert. no. 000677 QM08

VLFSINUS54KV_DS_EN_V01

www.megger.de

Megger is a registered trademark