Megger.

VLF Sinus 62 kV Test and diagnostic system for commissioning testing and condition analysis of medium-voltage cables



- Performs cable withstand testing, cable diagnosis and sheath fault pinpointing
- Smallest and lightest unit on the market in its class
- Automatic result interpretation as per latest IEEE 400.2 standard
- Easy field operation with no need for external computer

DESCRIPTION

The VLF Sinus 62 kV with integrated tanDelta is a compact, robust, and portable high-performance test and diagnostic system for medium voltage cables.

The 62 kV tester is a multifunctional tool: apart from VLF and DC testing, it can also perform sheath testing and sheath fault pinpointing (in combination with the step voltage probe ESG NT). Moreover, the optional internal tanDelta expands the system to assess both cable integrity and condition. The smart VLF system automatically adjusts the test frequency to the cable length, making even tests on 35 kV rated cables (up to 25 km) easy and reliable.

Field operations require no external computer. Equipped with intuitive operating software and a large internal memory, the VLF Sinus 62 kV evaluates and stores all data automatically. Via the USB port, datasets can be easily exported and processed for report generation via the PC software Easyprot (incl. in delivery). The user can review all performed measurements either immediately or at a later point in time (internally).

The well thought-out operating principle combined with simple visual commands guide the user through the entire measurement process, keeping training time to a minimum even for advanced cable diagnosis.

The system can also be used as a voltage source for the optional and lightest on the market available PD attachment, the PDS 62-SIN. Via this it can be expanded to a universal testing and diagnostic system enabling withstand testing, tanDelta diagnosis and partial discharge diagnosis.

For both VLF Sinus 62 kV and the PDS 62-SIN transport cases are optionally available allowing safe transportation and storage.

TECHNICAL DATA*

Output voltage

VLF sine wave
DC voltage
VLF rectangular voltage
Accuracy
Resolution

Output current

Source output current	
Accuracy	
Resolution	

Frequency range

Output load

Internal tanDelta

Measuring frequency	0.01 0.1Hz
Measuring range	10 ⁻⁴ 10 ^o
Accuracy	10-4
Resolution	10-5
Sheath testing	$0\ldots5kV,0\ldots10kV,0\ldots20kVDC$
	0 5 kV, 0 10 kV, 0 20 kV DC
Sheath fault pinpointing	Pulse rate 0.5:1, 1:2, 1:3, 1:4 and
	1.5:0.5
Safety	autom. discharging of the test
	object
Input voltage	100 V 264 V, 50/60 Hz, 2000 VA
Duty cycle	continuous
Internal memory	For at least 1000 measurements
Dimensions (W x H x D)	544 x 520 x 416 mm
Weight	59 kg
Protection class	IP 21
Operating temperature	- 20 °C + 55 °C
Storage temperature	- 20 °C + 70 °C

0 ... 44 kV_{RMS} / 0 ... 62 kV_{peak}

±0...62 kV

0 ... 62 kV

0 ... 40 mA

0.01 Hz ... 0.1 Hz

autom. frequency adjustment

10 µF maximum test capacity

 $1\,\mu\text{F}$ @ 0,1 Hz at 44 kV $_{\text{\tiny RMS}}$

±1%

0.1 kV

+1%

10 µA

FEATURES

- High test capacity of up to 10 µF
- Continuous duty cycle
- Intuitive user software with large internal memory
- Leakage current measurement in DC and VLF rectangular mode
- Optional internal tanDelta with automatic evaluation acc. to IEEE
- Via optional PDS 62-SIN PD coupler expandable to a full test and diagnostic test set
- Maximum user safety through automatic discharge of the test object
- Breakdown detection and load recognition (R, C)
- Quick, easy logging and updates via USB port
- Sheath testing and sheath fault pinpointing acc. to IEC 60229
- Monitored withstand testing in TD and PD mode

SCOPE OF DELIVERY

- VLF Sinus 62 kV
- Fixed HV connection cable in 5 or 10 m lenth
- Mains cable/grounding cable 3/5 m
- Fixed accessory bag
- USB stick for logging
- Easyprot reporting software
- Operating manual

VLF Sinus 62 kV with 5m HV lead VLF Sinus 62 kV with 10m HV lead VLF Sinus 62 kV with 5m HV lead and internal tanDelta VIE Sinus 62 kV with 10m HV lead and internal tanDelta

ORDERING INFORMATION

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Options:	
PDS 62-SIN PD attachment	1009853
Transport case VLF Sinus 62 kV	90028932
Transport case PDS 62-SIN	90023948
ESG NT step voltage probe	1004629-5
Test/calibration certificate VLF Sinus 62 kV	2011621

SALES OFFICES

Megger GmbH

Product

Obere Zeil 2 D-61440 Oberursel Germany T 0049 6171 92987-0 E info@megger.de

Seba Dynatronic Mess- und Ortungstechnik GmbH Dr.-Herbert-lann-Str. 6 96148 Baunach Germany T 0049 9544 68-0 E team.international@megger.de

VLFSINUS62KV_DS_EN_V02

www.megger.com ISO 9001



* We reserve the right to make technical changes.

Order no.

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