

VLF SINE 62 kV

Test and diagnostics system for medium voltage cables

Megger



- Performs cable withstand testing, cable diagnostics and sheath fault pinpointing
- Smallest and lightest unit on the market in its class
- Unique user-experience thanks to large colour-touch display
- Automatic result interpretation as per latest IEEE 400.2 standard
- Highest safety thanks to analogue residual voltage indicator

DESCRIPTION

The VLF sine wave 62 kV with integrated tan delta 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 NT2). Furthermore, the optional internal tan delta 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 sine wave 62 kV evaluates and stores all data automatically. Via either USB port or wireless connection to mobile end-device (coming soon), datasets can be easily exported and processed for report generation via the PC software Megger Book Lite (incl. in delivery). On the unit itself the user can review all performed measurements either immediately or at a later point in time.

The well-thought-out and touch-friendly user interface puts the user experience on a level as never reached before. Training time is kept to a minimum, even for the more advanced cable diagnostic methods. Thanks to the analogue residual voltage indicator the user is always informed about the status of its cable under test and therefore ensures highest safety.

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

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

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FEATURES

- High test capacity of up to 10 μ F
- Continuous duty cycle
- Large 7" colour-touchscreen
- Intuitive user software with large internal memory
- Optional internal tan delta with automatic evaluation acc. to IEEE 400.2 or user-defined trending limits
- Via optional PDS 62-SIN PD coupler expandable to a full test and diagnostic test set
- Maximum user safety through breakdown detection, automatic discharge of the test object and residual voltage indicator
- Sheath testing and sheath fault pinpointing acc. to IEC 60229
- Monitored withstand testing in TD and PD mode
- Prepared for wireless data-transfer

SCOPE OF DELIVERY

- VLF SINE 62 kV
- Fixed HV connection cable in 5 or 10 m
- Mains cable/grounding cable 5 or 10 m
- Fixed accessory bag
- Megger Book Lite reporting software on USB stick
- Operating manual

TECHNICAL DATA *

Output voltage

VLF sine wave	0 ... 44 kV _{RMS} / 0 ... 62 kV _{peak}
DC voltage	$\pm$ 0 ... 62 kV
VLF rectangular voltage	0 ... 62 kV
Accuracy	$\pm$ 1 %
Resolution	0.1 kV

Output current

Source output current	0 ... 40 mA
Accuracy	$\pm$ 1 %
Resolution	1 μ A
Frequency range	0.01 ... 0.1 Hz
	autom. frequency adjustment
Output load	1 μ F @ 0,1 Hz at 44 kV _{RMS}
	10 μ F maximum test capacity

Internal tan delta

Measuring frequency	0.01 ... 0.1 Hz
Measuring range	10 ⁻⁴ ...10 ⁰
Accuracy	10 ⁻⁴
Resolution	10 ⁻⁵ or 10 ⁻⁶
Sheath testing	0 ... -20 kV DC
Sheath fault pinpointing	0 ... -20 kV DC
	Pulse rate 0.5:1, 1:2, 1:3, 1:4 and 1.5:0.5

Safety	autom. discharging of the test object and residual voltage indicator
Input voltage	100 V ... 264 V, 50/60 Hz, 2000 VA
Duty cycle	continuous
Display	7" colour-touchscreen
Interfaces	USB, LAN, wireless (coming soon)
Internal memory	For at least 1000 measurements
Dimensions (W x H x D)	544 x 520 x 416 mm
	21.4 in. x 20.5 in. x 16.4 in.
Weight	59 kg
	130 lbs.
Protection class	IP 21
Operating temperature	-20 °C ... +55 °C
	-4 °F ... 131 °F
Storage temperature	-20 °C ... +70 °C
	-4 °F ... 158 °F

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ORDERING INFORMATION	
Product	Order no.
VLF SINE 62 kV with 5 m HV lead	1015090
VLF SINE 62 kV with 10 m HV lead	1015091
Mandatory selection mains cable (1x)	
Mains cable EU	810000024
Mains cable UK	118307335
Mains cable US	502025220
Mains cable AUS	90020435
Mandatory selection clamp set (1x)	
Clamp set EU VLF SINE 62 kV	2016176
Clamp set US VLF SINE 62 kV	2016300
Options	
Internal tan delta	138316309
HVCC VLF SIN-62, leakage current correction	1013605
External safety unit without / with controls	2010001 / 2006112
Test adapter VLF CS-SF6-UNI-L set (long 460 mm)	1013586
Test adapter VLF CS-SF6-UNI-K set (short 310 mm)	1013587
PDS 62-SIN PD coupler	further information on PDS 62-SIN datasheet
Transport case VLF SINE 62 kV	90041725
Transport case PDS 62-SIN	90023948
ESG NT2 step voltage probe	1014430
Test/calibration certificate VLF SINE 62 kV	2011622
Software MeggerBook 3 for Windows - full license	2015875



SF6 test adapter for angle plug



PD coupler
PDS 62-SIN



Transport case
VLF SINE 62 kV



External safety equipment without
and with operating function



Leakage current correction
HVCC VLF SIN-62

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