



S VLF series High Voltage Insulation Testers

Evaluate the condition of cables using VLF or DC voltage

Features

- Extremely compact high-power VLF test device
- Easily portable for 1-2 people
- Simple operation: menu-assisted control with industrial class OLED display
- Fully automatic test sequence
- Integrated timer 1-300 min with automatic tripping
- Integrated breakdown detection
- Integrated fault time detection
- Voltage measurement direct at HV output
- Protective ground connection
- High voltage start key interlock
- Protective circuit / indication in accord. with EN 50191
- Leakage current measurement during VLF test



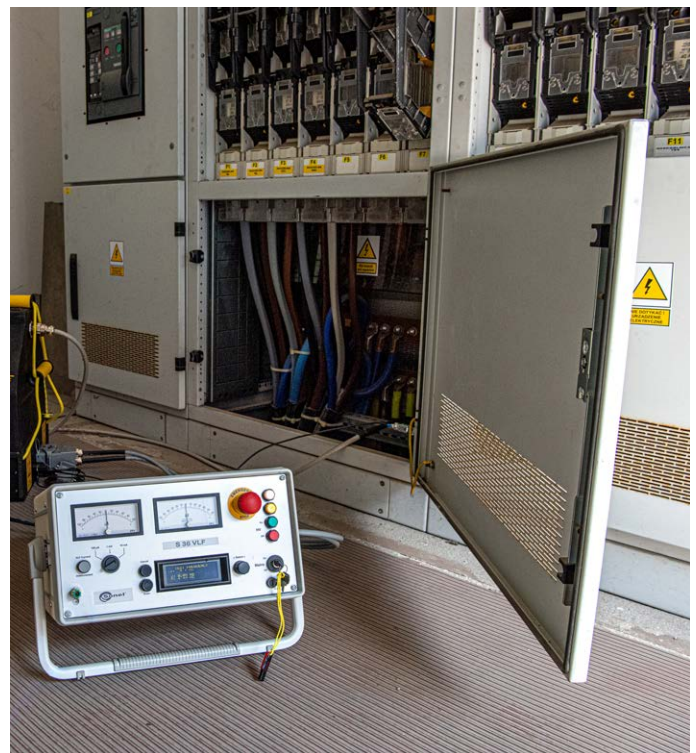
Overview

The compact, robust and portable S VLF cable test sets are used for testing of medium voltage cables in accordance to the standards IEEE400, IEC 60502-2, CENELEC HD 620 & 621 and DIN VDE 0276/620 & 621. The test is carried out with a low strain practice with VLF (very low frequency) test voltage at 0.1 Hz frequency.

VLF test enables detection of damages of the insulation within shortest test time. The S VLF series device can test cables with extruded insulation (XLPE-, PE-, EPR-insulation) as well as cables with paper-oil insulation (PILC). Cable sheath testing with direct voltage is also possible.

Optional features

- Data logging (USB stick) for VLF test sets
- Frequency extension: 0.05 + 0.02 Hz
- Customized test cables
- Transport case



Technical specification

	S-24 VLF	S-36 VLF	S-44 VLF	S-57 VLF	
Index	WMGBS24VLF	WMGBS36VLF	WMGBS44VLF	WMPAS44VLF	WMGBS57VLF
Power supply	230 V (±10%) 10 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz	110 V (100 V...127 V) 15 A, 50/60 Hz	230 V (±10%) 10 A, 50/60 Hz
Output voltage	0...24 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz) ± 0...34 kV DC	0...36 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz) ± 0...52 kV DC	0...44 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz) ± 0...62 kV DC	0...44 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz) ± 0...62 kV DC	0...57 kV _{RMS} VLF 0.1 Hz (option: 0.05 Hz + 0.02 Hz) ± 0...62 kV DC
Voltage waveshape	VLF similar sine-wave, symmetrical, with True RMS measurement DC direct voltage, negative and positive polarity				
Overcurrent trip (DC)	10 mA				
Max. testable cable length, max. capacitance (VLF)	up to 60 km (15 µF at 24 kV _{RMS} * 0.02 Hz)*	up to 60 km (15 µF at 36 kV _{RMS} * 0.02 Hz)*	up to 60 km (15.0 µF at 44 kV _{RMS} * 0.02 Hz)*	up to 60 km (15.0 µF at 44 kV _{RMS} * 0.02 Hz)*	up to 60 km (15.0 µF at 57 kV _{RMS} * 0.02 Hz)*
	*at a cable capacitance of approx. 0.25 µF/km				
Max. load at max. output voltage (VLF) and 0.1 Hz	5 µF at 24 kV _{RMS}	2.4 µF at 36 kV _{RMS}	1.6 µF at 44 kV _{RMS}	1.0 µF at 44 kV _{RMS}	0.55 µF at 57 kV _{RMS}
Discharge - integrated automatic discharge device	max. 9000 J	max. 12500 J	max. 12500 J	max. 12500 J	max. 12500 J
Voltage measuring range	-40...0...40 kV accuracy ±1%	-60...0...60 kV accuracy ±1%	-70...0...70 kV accuracy ±1%	-70...0...70 kV accuracy ±1%	-70...0...70 kV accuracy ±1%
Current measuring ranges	±0...100 µA / 1 mA / 10 mA				
Operating temperature	-20...+45°C				
Storage temperature	-25...+70°C				
Duty	continuous operation				
PC interface	USB stick				
Construction	in two parts: operation unit and high voltage unit				
Dimensions and weight	Operation unit	37 x 34 x 20 cm 17 kg			
	High voltage unit	40 x 41 x 24 cm 38 kg	40 x 44 x 24 cm 48 kg	40 x 44 x 24 cm 49 kg	40 x 44 x 24 cm 49 kg

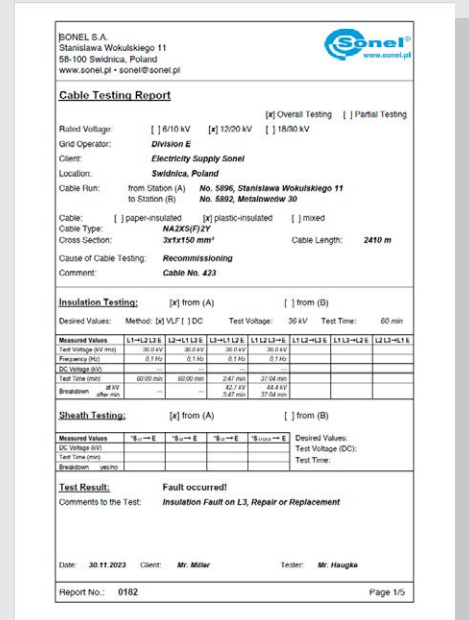


Sonel VLF Tester Software

The programme **Sonel VLF Tester Software** generates a test report based on the individual recorded data files.

The first page of the generated report is an overview. The following pages describe the individual tests of the power cable system. The software is easy to use, so you can quickly create a PDF report that is attractive to the end user.

Supported languages: Polish, English, Spanish, German, Czech, Italian. It is possible to generate a report in a language other than the one set for the interface.



Standard accessories



High voltage connecting cable (shielded) 5 m

Bridging cables



Connecting cable between high voltage unit and station ground



Connecting cable between operation unit and protective ground



Service pack

Start keys



Case

WAWALVLF



User manual

Optional accessories



USB stick for data logging

WAADAHVLFIDL



Case with wheels

WAWALVLF2



Sonel VLF Tester Software

WAPROVLFTS



Frequency extension 0.05 Hz + 0.02 Hz

WAADAHVLFIFE