

KPG 20kV VLF

KPG 38kV VLF



**Portable High Voltage
Cable Test Sets 0,1 Hz VLF**

Specification

(Subject to changes and alterations without further notice.)



Portable VLF cable test sets with 0.1 Hz-technology

The portable cable test sets *KPG 20kV VLF* and *KPG 38kV VLF* are used for testing of medium voltage cables with extruded insulation (XLPE-, PE-, EPR-insulation) and nominal voltage up to 6.3/11kV (*KPG 20kV VLF*) or 12.7/22kV (*KPG 38kV VLF*) in accordance to DIN VDE 0276 / 620 (CENELEC HD 620).

Test is carried out with an low strain practice with very low frequency voltage of 0.1Hz and proof voltage level of $3 \times U_0$ r.m.s. Test enables detection of damages of insulation within shortest test time. The devices are also able to test medium voltage cables with impregnated paper insulation. Cable sheath test with direct voltage is possible as well.

	<i>KPG 20kV VLF</i>	<i>KPG 38kV VLF</i>
Power supply	230 V, 5 A, 50/60 Hz	230 V, 10 A, 50/60 Hz
Output voltage	1..20 kV _{r.m.s.} , VLF 0.1 Hz (0.05 Hz optional) 0..30 kV DC	1..38 kV _{r.m.s.} , VLF 0.1 Hz (0.05 Hz optional) 0..50 kV DC
Voltage waveshapes	Resembling sine-wave (VLF), microprocessor controlled true R.M.S. measurement Direct voltage	
max. load (VLF)	3.7 µF at 19 kV _{r.m.s.} , 0.1 Hz <i>(approx. 10 km XLPE-cable 11kV/150mm²)</i> 6.7 µF at 19 kV _{r.m.s.} , 0.05 Hz <i>(approx. 18 km XLPE-cable 11kV/150mm²)</i>	3.7 µF at 19 kV _{r.m.s.} , 0.1 Hz <i>(approx. 10 km XLPE-cable 11kV/150mm²)</i> 6.7 µF at 19 kV _{r.m.s.} , 0.05 Hz <i>(approx. 18 km XLPE-cable 11kV/150mm²)</i> 1.8 µF at 38 kV _{r.m.s.} , 0.1 Hz <i>(approx. 8 km XLPE-cable 22kV/150mm²)</i> 3.2 µF at 38 kV _{r.m.s.} , 0.05 Hz <i>(approx. 15 km XLPE-cable 22kV/150mm²)</i>
Overcurrent tripping level (DC)	10 mA	
Discharge	integrated automatic discharge device 6250 J (<i>up to 14 µF at 30kV</i>)	
Voltage measuring range	-30 ... 0 ... 30 kV	-50 ... 0 ... 50 kV
Current measuring ranges	100 µA / 1 mA / 10 mA	
Operating temperature	-20 ... +40°C	
Construction	in two parts, Operator unit and High Voltage unit	
Weight	Operator unit: 17 kg High Voltage unit: 38 kg	17 kg 48 kg
Dimensions (W xHxD)	Operator unit: 420 x 340 x 196 mm High Voltage unit: 406 x 413 x 245 mm	420 x 340 x 196 mm 406 x 443 x 245 mm

Characteristics:

- compact portable VLF test devices
- easy portable from 1-2 person
- simple operation
- menu-assisted control, english/german, other languages possible
- fully automatic test sequence
- integrated timer with automatic tripping
- integrated breakdown detection
- integrated fault time detection
- direct high voltage measurement
- protective ground circuit
- protective circuit / indication in accordance with VDE 0104
- leakage current measurement during VLF test

Scope of supply:

- Operator unit with softcase
- High Voltage unit
- HV-connecting cable (shielded), standard length 5m
- connecting cable, HV unit to Operator unit, length 3m
- ground cables
- user manual english/german, other languages possible

Options:

- Datalogging (USB) for VLF test sets
- Frequency Extension: 0.05 Hz

MADE IN GERMANY

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