

Description

VLF cable testing is the cutting-edge technology for proof testing of fully operating medium voltage cables and the detection of faulty ones.

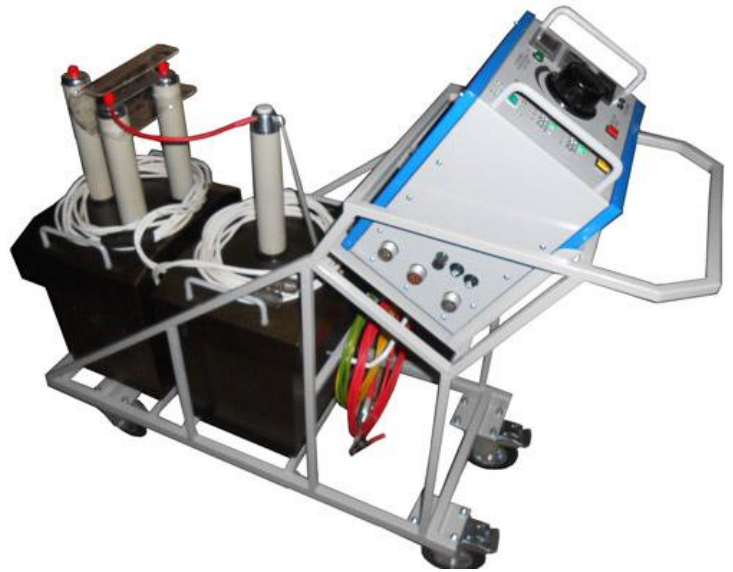
The device under test must withstand a VLF (very low frequency) AC voltage for a preset testing time without flashover.

The portable, high-performance and energy-efficient VLF test systems are used for testing cables with 0.1; 0.05 and 0.02 Hz. In accordance with guidelines, the dielectric strength of cables and joints must be checked after installation or repair.

The VLF test systems from Energoexport have high capacity and compact. In total two portable systems are available, each with different voltage levels (35 and 60 kV_{rms}) of cosine – rectangular squarewave.

Test system has several units that can be easily separated that facilitates easy transportation and use. For example, when tested substation insulators only one high-voltage unit can be used.

Internal timer with three fixed time interval (1, 5, 30 minutes) with a real time clock function. After timer tripping the test system automatically turns off testing mode. VLF test systems has two ranges of measurements of output current—1 mA and 20 mA with digital indication.



Parameter	VLF-35-AID			VLF-60-AID		
Output voltage, VLF mode (C-R squarewave), kV , max	35			60		
Fixed frequencies of VLF generator, Hz	0.1	0.05	0.02	0.1	0.05	0.02
Capacitance in VLF mode, μF, max	0.3	0.6	1.5	0.3	0.6	1.5
Max output voltage in AC continuous mode, kV	50			70		
Max output voltage in DC mode, kV	+35/-35			+60/-60		
Output current in all modes, mA	14			15		
Current and voltage measurement error, %	3			3		
Voltage measurement resolution, V	100			100		
Continuous operation, min	120			120		
Current consumption, A	5			6		
Weight, kg, max	125			140		
Power supply	220+/-22V, 50 Hz			220+/-22V, 50 Hz		