

HIPOT - VLF

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## **HIPOT WITH VERY LOW FREQUENCY (VLF) FOR CABLE AND GENERATOR TESTS**

Standards

IEC 60502-2, CENELEC HD 620 and 621, DIN VDE 0276-620 and 621, IEEE Std. 400



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## Description

VLF combines advanced digital frequency conversion technology, using microcomputer control, complete automation of boosting, reducing, measuring, and protection. It was developed to perform high capacitance load applied voltage tests, such as shielded high-voltage cables, large motors, or generators.

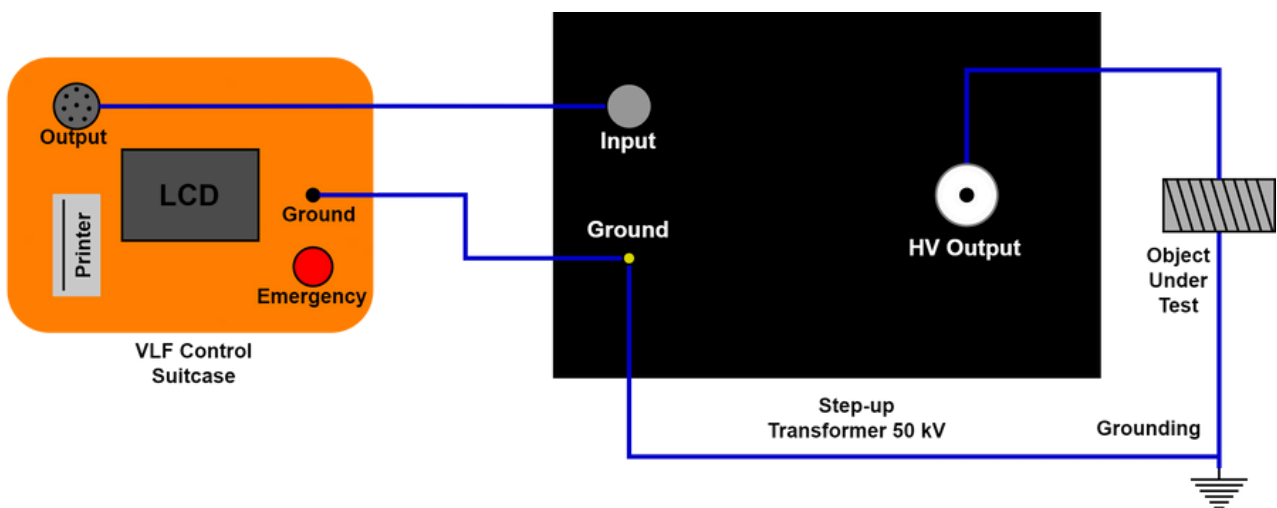
### Features:

- Current, voltage, and waveform data are sampled directly from the high-voltage side, providing greater accuracy.
- With overvoltage protection function, when the output exceeds the defined voltage limit value, the tester will interrupt the power supply through a protection circuit with an action time of less than 20 ms.
- Due to the closed-loop negative feedback control circuit of high and low voltage, the output has no effect of increasing the discharge current.

It is operated through a control case and a boosting circuit, providing high voltages at a very low frequency, ensuring that the injected power to capacitive loads remains low.

## Care for cable test using VLF

- The insulation resistance test is performed on each cable phase using a device called a megohmmeter, and the low-frequency withstand voltage test can only be conducted after passing this test.
- Test duration: defined according to test requirements.
- Multiple phases can be tested in a single test. When the capacitance value of the test cable is within the load capacity of the test equipment, the three-phase cores of the cables can be connected in parallel, and the withstand voltage test can be conducted simultaneously.



## Technical Specifications

Standards	IEC 60502-2, CENELEC HD 620 and 621, DIN VDE 0276-620 and 621 and IEEE Std. 400.	
Power supply	220 V $\pm$ 5% / 50 Hz ou 60 Hz	
Rated output voltage	Up to 50 kV peak	
Output Frequency	0,1 Hz; 0,05 Hz; 0,02 Hz	
Charge capacity	0,1 Hz max 1,1 $\mu$ F; 0,05 Hz max 2,2 $\mu$ F; 0,02 Hz max 5,5 $\mu$ F	
Measurement accuracy	3%	
Positive and negative voltage peak error	$\leq$ 3%	
Voltage waveform distortion	< 5%	
Conditions of use: indoor and outdoor	-10 $^{\circ}$ C ~ +40 $^{\circ}$ C	Humidity $\leq$ 90% without condensation
Fuse	20 A	

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