



0.1Hz VLF AC Hipot Tester for Cable Withstand Voltage Test

Quality / Accuracy / Reliability



DVLF series of Very-low frequency high voltage generator combine the advanced technology of modern digital conversion, fully computer control, automated boost, buck, measurement and protection. Human intervention can be carried out during the automatic step-up process. Main advantages include fully electronic, small size and light weight, large-screen LCD (clear and intuitive), printer output test report, easy to use, designed to fully meet the power industry standards. The products are particularly suitable for large electrical equipment insulation equivalent capacitance (for example: power cables, power capacitors, medium and large generators and motors, etc.) withstand voltage test.

Features:

- Over-voltage protection

The instrument will shut down within 20ms when the output voltage is exceeding the set values.

- Over-current protection

It is designed for dual protection for high and low pressure side. On high pressure side the device could be shut down accurately when exceeding the set value. On low pressure side the device would be shut down when exceeding the set value and the response time is less than 20ms.

- Data of current and voltage are obtained directly through the sampling at high-pressure side, so it is true and accurate.

- High-voltage output protection resistor is designed in the body boost and there is no need of additional outside resistor.

- Closed-loop negative feedback control circuit of high and low voltage, output without capacitance-rise effect.



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Technical Specifications:

1. Table 1 Main Parameters :

Model	Peak Voltage	Measuring Range	Fuse	Weight	Application
DVLF-30	30KV	0.1Hz, $\leq 1.1\mu\text{F}$	10A	Controller: 6 kg Booster: 30 kg	10KV and below voltage cable, generator
		0.05Hz, $\leq 2.2\mu\text{F}$			
		0.02Hz, $\leq 5.5\mu\text{F}$			
DVLF-60	60KV	0.1Hz, $\leq 0.5\mu\text{F}$	25A	Controller: 6 kg Booster I: 30 kg Booster II: 33kg	18KV and below voltage cable, generator
		0.05Hz, $\leq 1.0\mu\text{F}$			
		0.02Hz, $\leq 2.5\mu\text{F}$			
DVLF-80	80KV	0.1Hz, $\leq 0.5\mu\text{F}$	25A	Controller: 6 kg Booster I: 30 kg Booster II: 50kg	35KV and below voltage cable, generator
		0.05Hz, $\leq 1.0\mu\text{F}$			
		0.02Hz, $\leq 2.5\mu\text{F}$			

2. Power Supply: AC 220V \pm 5%, 50Hz

3. Accuracy: \pm (3% of full scale +0.5 KV)

4. Waveform Distortion of Output Voltage: \leq 5%

5. Working Condition: -10°C ~ 40°C, Humidity: \leq 85%RH

6. Measurement Range:

The capacitance of the measured equipment should be less than the rated maximum capacitance of the device. If the capacitance of the measured equipment is too small, it will affect the output wave form. And the device can not normally output if the capacitance is below 0.05 μF , now it is ok using 0.1 μF equipment to auxiliary output. Below is the capacitance of some instruments for reference.

Table 2 The Single-Phase Earth Capacitance of Various Generators

	Thermal Power			Hydropower			
Generator capacitance (MW)	200	300	600	85	125-150	300	400
Single-phase earth capacitance (μF)	0.2-0.25	0.18-0.26	0.31-0.34	0.69	1.8-1.9	1.7-2.5	2.0-2.5

Table 3 The Capacitance of Single-Core Power Cable with Cross-Linked Polyethylene Insulation ($\mu\text{F}/\text{km}$)

		Capacitance ($\mu\text{F}/\text{Km}$)										
Voltage	10kv	0.15	0.17	0.18	0.19	0.21	0.24	0.26	0.28	0.32	0.38	-
	35kv	-	-	-	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.19
Cross-sectional area (cm ²)		16	25	35	50	70	95	120	150	185	240	270

Product Specifications are subject to change without notice

Manufactured By:

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