RDVLF-80 VLF Hipot Tester

Nowadays, mechanical methods are adopted at home and abroad for modulation and demodulation to generate ultra-low frequency signals. Therefore, the sine wave waveform is not standard, the measurement error is significant, the high-voltage part has spark discharge, and the equipment is bulky. Moreover, the second and fourth quadrants of sine waves also need high-power, high-voltage resistors for discharge shaping, so the overall power consumption of the equipment is significant.

This product overcomes these shortcomings. It combines the advanced technology of modern digital frequency conversion and adopts microcomputer control to realize the complete automation of step-up, step-down, measurement, and protection. Manual intervention can be performed during the automatic boosting process. Because it is fully electronic, it has a small volume, light weight, large screen liquid crystal display, and a clear and intuitive display. The VLF Hipot Tester is equipped with a thermal printer and can print test reports on the test site.

Product Features

1. Current and voltage data can be directly sampled at the high-voltage side, so the data is real and accurate.
2. Over-voltage protection: If the output exceeds the set voltage limit, the VLF Hipot Tester will shut down to protect itself. The actuation time is less than 20ms.
3. Over-current protection: The design has high-low voltage dual protection, and accurate shut-down protection can be made according to the set value on the high-voltage side. If the low voltage side current exceeds the rated current, the instrument will take shut-down protection, and the actuation time will be less than 20ms.
4. The high-pressure output resistance design is in the booster, so you don't need

another outside protective resistance.

5. The adoption of high- and low-voltage closed loop feedback control circuits, so the output is no let-up effect.

Product specifications and technical parameters

1. Rated output voltage and load capacity

Rated output voltage	Load capacity at different frequencies	Booster configuration
30kV (peak value)	0.1Hz, ≤1.0μF	Using the No. I booster alone
	0.05Hz, ≤2.0μF	
	0.02Hz, ≤5.0μF	
	0.01Hz, ≤10.0μF	
50kV (peak value)	0.1Hz, ≤0.4μF	Using the No. II booster alone
	0.05Hz, ≤0.8μF	
	0.02Hz, ≤2.0μF	
	0.01Hz, ≤4.0μF	
80kV (peak value)	0.1Hz, ≤0.35μF	Using booster I and booster II in series
	0.05Hz, ≤0.7μF	
	0.02Hz, ≤1.75μF	
	0.01Hz, ≤3.5μF	

2. Measurement accuracy: ± (3%fs+0.5kV)
3. Voltage waveform distortion: ≤ 5%
4. Use condition: temperature -10℃ ~ +40℃; humidity ≤ 85%RH
5. Power supply fuse: 25A
6. Power supply: AC 220V ±5%, 50±0.1Hz

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