



HTDP-H VLF Hipot Test Set



Product Introduction

Ultra low frequency high voltage generator combines modern digital frequency conversion advanced technology, fully controlled by microcomputer control, boost, step-down, measurement, protection, and manual intervention in the automatic boost process. Because it is fully electronic, it is small in size and light in weight, large screen LCD display, clear and intuitive, and printer output test report. The design indicators are in full compliance with the "General Technical Conditions for Power Equipment Special Test Instruments, Part 4: General Technical Conditions for Ultra Low Frequency High Voltage Generators", which is very convenient to use. At present, both domestic and foreign methods use mechanical methods for modulation and demodulation to produce ultra-low frequency signals. Therefore, there are sinusoidal waveforms that are not standard, measurement errors are large, sparks are discharged in high voltage parts, equipment is cumbersome, and the second and fourth quadrants of sine waves are also needed. The high-power high-voltage resistor performs discharge shaping, so the overall power consumption of the device is large. Ultra low frequency high voltage generator can overcome such shortcomings.

Product nickname: Ultra low frequency high voltage generator, 0.1Hz Ultra low frequency high voltage generator, ultra low frequency AC high voltage generator, ultra low frequency AC voltage test device

Product Parameters

model	HTDP-50H	HTDP-30H	HTDP-80H
Output rated voltage	50kV(Peak)	30kV(Peak)	80kV(Peak)
Output frequency	0.1Hz,0.05Hz,0.02Hz		
Load capacity	0.1Hz: $\leq 0.5\mu\text{F}$	0.1Hz: $\leq 1.1\mu\text{F}$	0.1Hz: $\leq 0.5\mu\text{F}$
	0.05Hz: $\leq 1.1\mu\text{F}$	0.05Hz: $\leq 2.2\mu\text{F}$	0.05Hz: $\leq 1.1\mu\text{F}$
	0.02Hz: $\leq 2.5\mu\text{F}$	0.02Hz: $\leq 5.5\mu\text{F}$	0.02Hz: $\leq 2.5\mu\text{F}$
measurement accuracy	\pm (3% full scale+0.5kV)		
Voltage waveform distortion	$\leq 5\%$		
power supplyFuse	20A	10A	25A
Weight	Controller : 6kg		
	Boost body : 50kg	Boost body : 30kg	Boost body I : 30kg , Boost body II : 50kg
Conditions of Use	temperature : $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$; humidity : $\leq 85\%\text{RH}$		
power supply	Exchange 50 Hz, 220V $\pm 5\%$		
use	Cable for the corresponding voltage, generator	For 10kV and below cables, generator	For cables of 35kV and below, generator

Product features

- 1, current, voltage data are directly obtained through high-voltage side sampling, so the data is true and accurate
- 2, overvoltage protection: When the output exceeds the set pressure limit value, the instrument will stop protection, the action time is less than 20ms
- 3, over-current protection: designed for high and low voltage double protection, the high-voltage side can be precisely stopped according to the set value; the low-voltage side of the current will exceed the rated current will be shutdown protection, the action time is less than 20ms
- 4, the high-voltage output protection resistor is designed in the Boost body, so there is no need to connect another protection resistor
- 5, due to the use of high and low voltage closed-loop negative feedback control circuit, so the output has no capacity rise effect

