



## HTXZ(L) Variable Frequency Series Resonant Test System



### Product Introduction

Series resonance device is mainly designed and manufactured for communication voltage endurance test of 11kV/30MW hydro-generator. Two separate designs are adopted for reactor.

Series resonance device is mainly composed of frequency conversion control power supply, excitation transformer, reactor and capacitor voltage divider.

product names : Frequency conversion resonance, frequency conversion Series resonance, Series resonance transformer, Series resonance, Series resonance equipment, frequency vibration resonance voltage resistance device with adjustable inductance, generator communication voltage resonance booster, Series resonance device

### Product Parameters

Rated output voltage	0~50kV(AC RMS)
output frequency	45~65Hz
Resonance voltage waveform	Pure sine wave, waveform distortion rate $\leq$ 1.0%

Work system	Under full power output, normally continuous work time 5min
quality factor	10~40
Frequency regulation sensitivity	0.1Hz, Instability < 0.05%
Maximum test capacity	5000kVA and below
Working power supply	220V and 380V±10%, Power frequency 50Hz±5%

Model	Control console	reactor	Excitation transformer	Voltage divider	applicable objects
HTXZ(L) - 50/50	10kW/220V	50kV/1A	10kW/5kV	50kV/500pF	generator 0.07~0.13uF.10kV cable(300mm <sup>2</sup> )≤1.0km
HTXZ(L) - 75/50	15kW/380V	50kV/1.5A	15kW/5kV	50kV/500pF	generator 0.13~0.2uF.10kV cable(300mm <sup>2</sup> )≤1.5km
HTXZ(L) - 225/50	25kW/380V	50kV/1.5A Two.50kV/1.5A	25kW/5kV	50kV/500pF	generator 0.2~0.27uF.10kV cable(300mm <sup>2</sup> )≤2.5km
HTXZ(L) - 360/50	30kW/380V	60kV/2A Two.60kV/2A	30kW/5kV	50kV/500pF	generator 0.27~0.33uF

## Product features

- 1、Series resonance device features such protection functions as over voltage, over current, zero start, system dissonance (flash falling), etc. The overvoltage and over current protection value can be adjusted according to user needs, try to taste flash falling protection action and can write down the flash falling voltage for test analysis.
- 2、The whole Series resonance device has a very light weight, the maximum weight is no more than 40kg, easy for scene use.
- 3、Series resonance device features four work modes, convenient for users to flexibly choose according to scene conditions, and improve test speed.
- 4、Storage and different to print data, stored data number is word, convenient to help users identify and check looking for.
- 5、Series resonance device automatic frequency scanning, the frequency starting point can be set arbitrarily within the specified range, the frequency scanning direction can be chosen upward and downward, and at the same time, the liquid crystal large screen shows scanning song line, making it convenient for users to intuitively understand whether looking for resonance point.

6、 Using DSP platform technology, it can increase or decrease functions and upgrade according to users' needs conveniently, which also makes man-machine interface more humanized.