

STABILIZER SINGLE PHASE



Single Phase Servo Voltage Stabilizer

Working principle of voltage stabilizer

Automatic voltage stabilizer is a device that stabilizes the output voltage. The voltage stabilizer consists of a voltage regulating circuit, a control circuit, and a servo motor. When the input voltage or load changes, the control circuit samples, compares, and amplifies, and then drives the servo motor to rotate, causing the position of the voltage regulator carbon brush to change, and the output voltage is kept stable by automatically adjusting the coil turns ratio.

Product specification

Model	TND-1000VA	TND-2000VA	TND-3000VA	TND-5000VA	TND-10kVA
Rated capacity	1000V /800Watt	2000VA /1600Watt	3000VA /2400Watt	5000VA /4000Watt	10kVA /8000Watt
Input voltage	Single phase 100-260V /140-260V				
Output voltage	Single phase 220VAC ±3%				
Rated current	3.6A	8.1A	10.9A	18.1A	36.3A
Output waveform	Sinewave, no additional waveform loss				
Over-voltage protection	Output voltage 246V±4V				
Under-voltage protection	Output voltage 186V±4V, regularly not set under-voltage protection				
Loadpower factor	0.8				
Insulation resistance	Single phase >5MΩ				
Protective function	With over - voltage, over-temperature, overload protection function;				
Adjust time	<1s (When the voltage change by 10%)				
Delay time	<10s				
Insulation level	E class				
Work efficiency	≥90%				
Working frequency	50/60HZ				
Overload capacity	2 times rated current for 40 seconds				
Ambient temperature	-20C° ~ 50C°				
Temperature rise	≤60K				
Dielectric strength	1500V/min No flashover				
Protection degree	IP21				
Working environment	No corrosive gas, no high temperature, not suitable for humidity				
Display	LCD				
Coil Material	1 copperregulatingcoil				
Cooling method	Naturalcooling+Fancooling				
Size (L*D*H/mm)	205*215*170	275*240*205	305*240*240	330*250*265	345*320*540