

ZTY series high precision auto voltage regulator power supply mainly consists of contact auto-transformer, servo motor and automatic control circuit. When grid voltage is unstable or load varies, automatic control circuit drives the servo motor in compliance with variety of output voltage, adjusts carbon brush position on the contact auto-transformer, makes output voltage adjusted to be rated value and reaches a steady state. ZTY series products introduce advanced technology, adopt energy-saving ring transformer and use integrated circuit and high quality components, which make them featured with small footprint, light weight, high-efficiency and energy-saving, no additional distortion of output waveform, stable performance and reliability.

Features

High adaptability to all kinds of non-linear load such as inductive load and capacitive load

High power density, high cost-effective, wide application

Ring transformer structure, small footprint, minimum magnetic leakage, low noise

Multilayer structure carbon brush with long service time and convenient daily maintenance

Specifications

MODEL	GXZS-M-1-1-2
Capacity	2 KVA
AC INPUT	
Voltage range	160 V ~ 255 V
Frequency range	50 / 60 Hz
Phase	Single phase + N + G
AC OUTPUT	
Voltage	220 V / 230V (110 V output is available for 5KVA below)
Voltage regulation accuracy	$\leq \pm 3\%$
Waveform	Sinusoidal
Efficiency	$\geq 96\%$
Power factor	0.8
Distortion	No additional waveform distortion
Response time	$\pm 10\%$ varies < 1 s
Overvoltage protection	Output phase voltage $250 \text{ V} \pm 5 \text{ V}$
Undervoltage	Output phase voltage $183 \text{ V} \pm 5 \text{ V}$
Other protections	Start-up delay – mechanical failure – overcurrent – short-circuit – overtemperature
Insulation resistance	$\geq 2\text{M}\Omega$
Dielectric intensity	Input and output to earth at 50 Hz, 2000 V AC voltage for 1min, there is no breakdown or flashover, leakage current is less than 10 mA or at 2800 V DC voltage for 1min, no breakdown or flashover, leakage current is less than 1 mA
OTHERS	
Ambient temperature	$0^{\circ}\text{C} \sim + 40^{\circ}\text{C}$
Altitude	Less than 1000 m
Relative humidity	$0\% \sim 95\%$ (non-condensing)
Dimensions (W*D*H) (mm)	265*240*205
Weight (kg)	8.5

