

# Automatic voltage Stabilizer servo motor

## Single phase

### Series HT9000S (1 ~ 20 KVA)

HT9000S 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. HT9000S 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.



#### Specifications

- Automatic restart, turn-on delay, time-delay system and high & low voltage cut-off that provide efficient and reliable protection for home electronic appliances against voltage problems
- Ring transformer structure, small footprint, minimum magnetic leakage, low noise
- High adaptability to all kinds of non-linear load such as inductive load and capacitive load
- High power density, high cost-effective, wide application
- Multilayer structure carbon brush with long service time and convenient daily maintenance
- No serious vibration or jolt in the installation place
- When the power outage of the power grid is restored, the regulator can be automatically restored power supply

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MODEL		9001S	9002S	9003S	9005S	9010S	9015S	9020S
POWER	VA	1000	2000	3000	5000	10000	15000	20000
	w	800	1600	2400	4000	8000	12000	16000
INPUT	Voltage range	160 V ~255 V						
	Frequency range	50/60 Hz						
	Phase	Single phase +N+G						
OUTPUT	Voltage	220V / 230V ( 110V output is available for 5KVA below )						
	Voltage regulation accuracy	$\leq \pm 3\%$						
	Waveform	Sinusoidal						
	Power factor	0.8						
	Distortion	No additional waveform distortion						
	Response time	$\pm 10\%$ varies <1s						
	Overvoltage protection	Output phase voltage 250 V + 5V						
	Undervoltage	Output phase voltage 183 V + 5V						
SESTEM	Efficiency	$\geq 96\%$						
	protections	Start-up delay - mechanical failure - overcurrent — short - circuit — overtemperature						
	Insulation resistance	$\geq 2M \Omega$						
	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°C ~ + 40°C						
	Altitude	Less than 1000 m						
	Relative humidity	0% ~ 95% (non-condensing)						
PHYSICAL	Dimensions (WxDxH) (mm)	176x190x146	265x240x205		325x240x275	412x244x372	400x345x665	400x345x770
	Weight (kg)	5	8.5	12.5	15	24	43	55