

Automatic voltageStabilizer 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 | | | | | | |
| | Efficiency | $\geq 96\%$ | | | | | | |
| | protections | Start-up delay - mechanical failure - overcurrent — short - circuit — overtemperature | | | | | | |
| SESTEM | 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 |