



500VA VARIABLE AC POWER SOURCE SVC 500 SERIES

- Variable output voltage & frequency
- Compact size, light weight
- Sinusoidal wave shape
- Digital meters for Vrms & frequency
- Isolated, floating output
- 500VA output power
- Full electronic protection
- High reliability

Input Voltage

47Hz 410Hz

Input Protection

Thermal fuse

Input Isolation

8mm spacing

EMI

Class B

115 or 230VAC ±15%

Auto-ranging optional

Inrush current limiting

2250VDC input to chassis

2250 VDC input to output

2250VDC output to chassis

C22.2 No. 950 and UL 1950

Typically meets EN 55022

Full compliance to IEC950, CSA

- Professional quality
- Field-proven design topology



The SVC 500 Series is a variable AC power source designed to deliver power at a selectable frequency between 47Hz to 424Hz. The unit uses PWM technology and generates a pure sine-wave output with typical distortion of less than 5%. The output voltage is continuously adjustable from 0 to full scale.

The SVC 500 Series AC power source can be used as a compact AC/AC frequency converter, suitable for a wide range of applications. It features full electronic protection, high efficiency and low output noise. The unit is fan cooled.

SPECIFICATIONS

Output Voltage 0 ... 250V range; max. current 2A

Output frequency 47 ...439Hz in one band 50,100,200,400Hz 'hot' push buttons

Wave Form Sinusoidal

Total Harmonic Distortion Less than 5% at full load

Efficiency Min 78% at full load

Line Regulation Maximum 0.5%

Load Regulation Maximum $\pm 6\%$ from no load to full load.

Output Ripple/Noise High frequency ripple is better than 500mVrms (20 MHz BW)

Output Protection Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow

Output overload Protection Hiccup at 2.4Arms

Load Crest Factor Maximum 3.0 at 90% load

Operating Temperature Range 0°C to +50°C Frequency Stability ± 0.1%

Temperature Drift (for output voltage level) 0.05% per °C over operating temperature range

Dimensions 7.3" x 5.54" x 14" enclosed case (W x H x L)

Connections Input: IEC inlet connector Output: banana sockets or standard AC receptacle

Weight 9 pounds (4.kg)





2000VA VARIABLE AC POWER SOURCE SVC 2000 SERIES

- Variable output voltage & frequency
- Compact size, light weight
- Sinusoidal wave shape
- Digital meters for Vrms & frequency
- Isolated, floating output
- 2000VA output power
- Full electronic protection
- High reliability
- Professional quality
- Field-proven design topology



The SVC 2000 Series is a variable AC power source with an adjustable output of $0 \dots 130V$ (maximum current 15A) and $0\dots 250V$ (maximum current 8A). The unit uses PWM technology to generate 2000VA pure sine-wave output with a total harmonic distortion less than 5% at full load.

The SVC 2000 Series AC power source is suitable for a diverse range of industrial, engineering and academic, laboratory applications. It can also be used as an AC frequency converter. The unit is fan cooled and features full electronic protection, high efficiency and low output noise.

SPECIFICATIONS

Input Voltage 115 or 230VAC ± 15% 47Hz 440Hz Auto-ranging optional

Input Protection Thermal fuse Inrush current limiting

Input Isolation 2250VDC input to chassis 2250 VDC input to output 8mm spacing 2250VDC output to chassis

Full compliance to IEC950, CSA C22.2 No. 950 and UL 1950

Output Voltage 0...130V range; max current 15A 0...250V range; max current 8A

Output frequency 47 ...424Hz in one band 50, 100, 200, 400Hz 'hot' push buttons

Wave Form Sinusoidal

Total Harmonic Distortion Less than 5% at full load

Efficiency Min 78% at full load

Line Regulation Maximum 0.5% **Load Regulation** Maximum ± 5% of Vmax from no load to full load.

Output Protection Current limiting with short circuit protection. Thermal shutdown with automatic recovery in case of insufficient airflow

EMI Typically meets EN 55022 Class B

Load Crest Factor Maximum 3.0 at 90% load

Operating Temperature Range 0°C to +50°C

Frequency Stability ± 0.1%

Temperature Drift (for output voltage level) 0.05% per °C over operating temperature range

Dimensions 4U x 19" x 15" enclosed case (H x W x D)

Connections Input: terminal block Output: binding posts

Weight 30 pounds (13.4 kg)