



SX Series AC Power Sources

The SX series provides single, two and Three phase, precision solid-state AC power outputs. This series is designed to meet The demanding needs for testing non-linear, capacitive filter rectifier loads such as

switch-mode DC power supplies.

- [Manual](#) or [IEEE-488 programmable](#) using Elgar's Plug-in Programmers
- Provides 150% of rated capacity into linear resistive loads
- Range change relays allow switching from one voltage range to another via GPIB or front panel
- High crest factor currents from 3.5:1, up to 6:1 for firing angles of less Than 10 degrees from The voltage peak
- Overload and temperature protection
- Low effective output impedance

Available Models

SINGLE Ø MODELS:

MODEL NUMBER	POWER RANGE	OUTPUT VOLTS	HEIGHT
501SX-14	500VA	0-65/130/260	5.25"
1001SX-14	1000VA	0-65/130/260	7.00"
1751SX-14	1750VA	0-65/130/260	12.25"

Larger systems available, consult factory.

TWO Ø MODELS: Consult factory

THREE Ø MODELS:

MODEL NUMBER	POWER RANGE	OUTPUT VOLTS	HEIGHT
1500SX-3	1500VA	0-65/130/260	15.75"
3000SX-3	3000VA	0-65/130/260	21.0"
5250SX-3	5250VA	0-65/130/260	36.75"

Larger systems available, consult factory.

Key Specifications**INPUT**

Voltage: Standard inputs include 115VAC, 208VAC and 230VAC, 1 Ø. Consult factory for details and how to specify.

Frequency: 47-63Hz, optional 400Hz available.

OSCILLATORS

SL & B Series sources require either a [manual](#) or [Plug-in-programmer](#) oscillator. These oscillators determine programmability of output voltage, frequency, phase, etc. See appropriate data sheets for further information.

OUTPUT

Voltage Range: Full rated VA from 55-65 VAC, 110-130 VAC, or 220-260 VAC over a $\pm 10\%$ input variance and rated load PF of 0.7 to unity.

Output Frequency Range: 45[^]Hz to 1000[^]Hz at full rated power.

Load Regulation: $\pm 1\%$ from 45[^]Hz to 450[^]Hz with pulsed load or from 45[^]Hz to 1000[^]Hz with linear load.

Line Regulation: $\pm 0.25\%$ at rated load for a $\pm 10\%$ input variance.

Total Harmonic Distortion:

0.5% from 45[^]Hz to 1000[^]Hz with linear load

1.0% from 45[^]Hz to 75[^]Hz with pulsed load

4.0% from 75[^]Hz to 450[^]Hz with pulsed load

GENERAL

Operating Temperature Range: 0 - 55 ° C.

Dimensions: 19"w x 21"d, height - see table above.

Options**T Option: Test and Measurement**

Provides read back of actual output voltage, current, frequency, power and phase angle in multi-phase systems. This option requires That the source have a properly equipped Plug-in-Programmer.

D Option: Disconnect Relay

Internal relays That provide total isolation from The load when opened.

Programmable Current Limit:

Included with The T Option, provides a current limit That may be set either locally or via the GPIB. This will cause the unit to shut down and report an error if the limit is exceeded.

Range Change Relay Option:

Internal relays allow switching voltage ranges via GPIB or front panel control.

Accessories

Slide Kit:

19" rack mounting slide kit.

Cabinets:

Three different 19" rack cabinets are available for housing AC sources. 29.75", 45.5" and 61.25" cabinet heights are available. Contact the factory for part numbers and required hardware.