



## 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

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### 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.

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**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<sup>^</sup>Hz to 1000<sup>^</sup>Hz at full rated power.

**Load Regulation:**  $\pm 1\%$  from 45<sup>^</sup>Hz to 450<sup>^</sup>Hz with pulsed load or from 45<sup>^</sup>Hz to 1000<sup>^</sup>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<sup>^</sup>Hz to 1000<sup>^</sup>Hz with linear load

1.0% from 45<sup>^</sup>Hz to 75<sup>^</sup>Hz with pulsed load

4.0% from 75<sup>^</sup>Hz to 450<sup>^</sup>Hz with pulsed load

**GENERAL**

**Operating Temperature Range:** 0 - 55 ° C.

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

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**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.

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**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.