

at the incoming line to low stable sine wave power.

1-state frequency changers are 19" rack-mount units that can cover their full voltage and frequency ranges by fixed, variable or selectable plug-in oscillators (see selection on page 14) or from a single source.

Elgar's save critical panel space by providing up to 50% more capacity than most competitive units. They offer overload and over-temperature protection, can operate continuously at up to 150% rated power and provide up to three output voltage ranges.

FEATURES AND BENEFITS

Continuous Duty at Full Rated Capacity

For its conservative design, the SL Series provides continuous duty at 150% rated capacity into a linear resistive load, while B Series models are rated at 100% (see charts on page 11).

Low Harmonic Distortion

Elgar B Series power sources provide low harmonic distortion—below 0.3% midband, 0.6% at the frequency range.

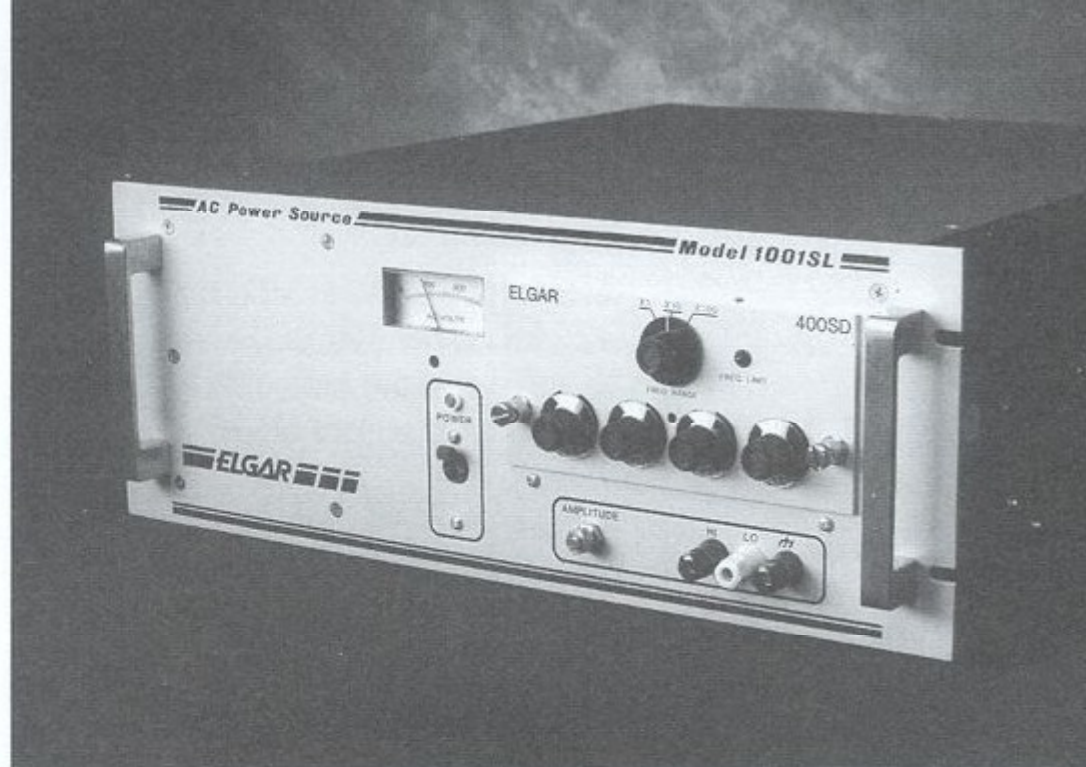
Wide Frequency Range

Elgar power sources offer frequencies from 0.1 Hz to 5 kHz at full rated power (expandable to 10kHz).

Flexible

Elgar series components can be used in combination for creating a full range of single, dual and three-phase AC power sources.

Power Volt Ampere Rating



OPTIONS

Programmable via IEEE-448 GPIB

Elgar's SL and B Series, when used with a Plug-In Programmer, provide full GPIB control of voltage, frequency, phase angle, voltage dropouts and test readback of output parameters.

Range Change Relays

An optional internal range change relay switches between 130 VAC and 260 VAC ranges under GPIB control or front panel local control when used with a PIP or a modified oscillator.

Test Option/Built-In Test Equipment (BITE)

This feature is available when used with an Elgar PIP 9012A, PIP 9023 or PIP 704 that also has the test option. Depending on the PIP, the RMS voltage, RMS current, frequency, phase angle and true power in watts can be read from the front panel or over the GPIB.

Programmable Current Limit

When equipped with the test option (Built-in Test Equipment/BITE), a current

Disconnect Relay

The optional internal output disconnect relay connects the load to the output power source under GPIB control from the front panel keypad or Plug-In Programmer.

APPLICATIONS

The linear design of the S Series provides a highly regulated sine wave, making these units suitable for loads in general purpose testing as well as for Automatic Test systems and avionics testing.

- Power fault simulation with an Elgar Plug-In Programmer
- Frequency conversion (50 to 60Hz) for general international or USA power
- Power supply testing
- Gyro testing
- Avionics testing

Since all Elgar AC power sources

<p>Range: Full rated VA 10-130 VAC, or 220-260 VAC input and rated PF range. Continuous duty at 150% of rated VA duty at 100% capacity. *</p> <p>PF: Unity to ± 0.7 PF at rated voltage adjustment range of 0-260 VAC.</p> <p>Frequency: 45 Hz-5 kHz at full rated VA</p> <p>Distortion: 0-100 Hz to 1000 Hz full frequency range</p> <p>0-100 Hz to 1000 Hz full frequency range</p>	<p>Line Regulation: $\pm 0.25\%$ at rated load for a $\pm 10\%$ input change at full scale output voltage.</p> <p>Response Time: < 2 microseconds</p> <p>AC Noise Level: 70 dB below full output voltage with input grounded.</p> <p>INPUT</p> <p>Voltage - SL Series: 115/208/230 VAC, $\pm 10\%$ (208 VAC is not available on 351 SL and 501 SL/SX models or on B Series.)</p> <p>-Three phase B Series models: 208/240/416 VAC L-L for 1753B and 3001. User selectable.</p> <p>Frequency: 47-63 Hz (400 Hz option, special order)</p> <p>Efficiency: Up to 45%</p>	<p>Volts/Volts, $\pm 1\%$ accuracy</p> <p>B Series: 0-150 VAC</p> <p>Controls: Input power switch/circuit breaker and pilot light. Full range, 10-turn potentiometer voltage control potentiometer.</p> <p><i>*See Power Rating Curve on page 10</i></p>
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SINGLE-PHASE OUTPUT POWER

OUTPUT			INPUT		PHYSICAL			COMMENTS
Vol. Range (RMS) L-N	Max Current (RMS) ①	Frequency Range (Hz)	Voltage and Phase	Nominal/Max (kVA) ②	Height and Depth (in/mm) ③	Weight WT (lbs/kg)		
0-130 0-260	1.1 0.55	45 to 5k	115 or 230, 1 ϕ	0.4	3.5/89 H 15/381 D	47/21 Net 51/23 Ship		0-32V/4.4A range available on Model 121B-101
0-32 0-130 0-260	9.2 2.25 1.1	45 to 5k	115 or 230, 1 ϕ	0.8	5.25/133 H 16/405 D	49/22 Net 55/25 Ship		
0-65 0-130 0-260	8.0 4.0 2.0	45 to 5k	115 or 230, 1 ϕ	1.0/1.6	5.25/133 H 21/533 D	75/34 Net 83/38 Ship		
0-65 0-130 0-260	11.5 5.8 2.9	45 to 5k	115 or 230, 1 ϕ	1.5/2.2	5.25/133 H 21/533 D	80/36 Net 88/40 Ship		
0-65 0-130 0-260	17.3 8.65 4.3	45 to 5k	115, 208 or 230, 1 ϕ	2.2/3.2	7.00/178 H 21/533 D	115/52 Net 25/57 Ship		
0-65 0-130 0-260	23.1 11.5 5.8	45 to 5k	115, 208 or 230, 1 ϕ	3.0/4.2	7.00/178 H 21/533 D	125/57 Net 135/61 Ship		
0-65 0-130 0-260	40.4 20.2 10.1	45 to 5k	115, 208 or 230, 1 ϕ	5.2/7.5	12.25/311 H 21/533 D	90/86 Net 200/91 Ship		
0-65 0-130 0-260	54.5 27.2 13.6	45 to 3k	208 or 416, L-L, 3 ϕ	9.0	17.5/445 H 22/560 D	315/143 Net 361/164 Ship		
0-65 0-130	80.8 40.4	45 to 5k	115, 208 or 230, 1 ϕ	10.5/15.0	24.50/622 H 21/533 D	80/172 Net 100/102 Ship		2ea 1751SL, 1ea 400SR, 1ea 1751SX, 1ea 400SR, 1ea 1751SX