



With broad-range frequency coverage as low as 10kHz and as high as 12MHz, the two models that make up the ENI "200" Series of Class A power amplifiers are primarily designed for ultrasonic, laser modulation, RFI/EMI, plasma and general laboratory requirements.

They may be connected to any load impedance at any phase and still provide extremely linear output voltage and current through their 50 Ohm equivalent output impedances. This unique attribute enables these units to act as very flexible sources of RF power especially where severely mismatched and non-linear loads are encountered.

The Model 240L will produce 40 Watts of Class A power and up to 150 Watts of Pulse and CW power over the frequency range of 20kHz to 10MHz. The Model 2100L is rated as a Class A amplifier with an output of 100 Watts and is capable of providing up to 250 Watts over the frequency range of 10kHz to 12MHz.

Output RF voltage levels as well as power output into 50 Ohms are monitored by front panel meters. The units are drive compatible with all laboratory signal generators, synthesizers and function generators and operate over wide range of AC line voltages.

# LOW FREQUENCY

- All Solid State
- Low Frequency Coverage
- 50dB Gain
- Works Into Any Load
- Failsafe
- Metered Output

**INPUT SIGNALS:** The units will accept CW, AM, FM, SSB, CATV, Pulse and other complex modulations limited only by their bandwidth and peak input level.

**HARMONIC DISTORTION:** Typically more than 30dB below fundamental at 40 Watts output for 240L and more than 25dB down at 100 Watts for the 2100L.

**STABILITY:** Unconditionally stable; unit will not oscillate for any condition of load and source impedance.

**PROTECTION:** Units will withstand more than 16dB overdrive (input signal of 1V rms) for all output load conditions.

**OUTPUT METERING:** Average reading voltmeter calibrated in rms volts for a sine-wave with an accuracy of  $\pm 3\%$  of full scale (0-100V); also calibrated in Watts into 50 Ohms (0-200 Watts).

**POWER SUPPLY:** Both the integral power supply and cooling system are conservatively designed to permit operation over a wide range of temperature and AC line conditions.

SPECIFICATIONS	MODEL 240L	MODEL 2100L
FREQUENCY COVERAGE	20kHz to 10MHz	10kHz to 12MHz
GAIN	50dB (Nominal)	50dB (Nominal)
GAIN VARIATION	$\pm 1.5$ dB	$\pm 1.5$ dB
MAXIMUM POWER OUTPUT	40 Watts	100 Watts
TYPICAL 3RD ORDER INTERMODULATION INTERCEPT POINT	+ 58dBm	+ 62dBm
DRIVE SOURCE REQUIREMENTS	Any signal generator or oscillator capable of 1 milliwatt of output. (0 dBm into 50 Ohms)	Any signal generator or oscillator capable of 1 milliwatt of output. (0 dBm into 50 Ohms)
INPUT IMPEDANCE	50 Ohms	50 Ohms
INPUT VSWR	1.5:1 Maximum	2.5:1 Maximum
OUTPUT VSWR	1.5:1 Maximum	2.5 Maximum
NOISE FIGURE	9dB (Nominal)	9dB (Nominal)
POWER REQUIREMENTS	115 Vac $\pm 8\%$ 50/60 Hz 6 Amperes or 230 Vac $\pm 8\%$ 50/60 Hz 3 Amperes	115 Vac $\pm 7\%$ 50/60Hz 14.5 Amperes or 230 Vac $\pm 7\%$ 50/60Hz 7.25 Amperes
OPERATING TEMPERATURE	0° to 40°C	0° to 45°C
SIZE	7 x 10 x 16.5 in. 17.8 x 25.4 x 41.9 cm	8.75 x 15 x 19.6 in. 122.2 x 38.1 x 49.9 cm
WEIGHT	30 lbs. (13.6 kg)	33 lbs. (15.0 kg)
CONNECTORS	BNC	BNC