



2500L POWER AMPLIFIER

500 Watts
RF Power
For:

- Industrial
 - Medical
 - Lab Use
-
- 50 KHz – 12MHz
 - Power Measurement
 - Forward & Reflected
 - Solid State Reliability
 - Forced Air Cooling



The 2500L Amplifier is a rugged source of RF power for ultrasonics, induction heating and laser modulation as well as plasma applications. It is a totally solid state solution employing RF DMoS FETs in the power amplification stages, offering simultaneous forward and reverse power readouts, and an RS232 port for data collection. The 2500L reflects E&I's commitment to reliable and robust RF power.

Flexible Operation

The 2500L produces 500 Watts of linear class A power over a frequency range of 50 KHz to 12 MHz, with a nominal power gain of 60 dB (+/-2dB). Operation over the entire frequency range is possible without the need for any switching.

The front panel display provides simultaneous measurements of forward and reflected power as well as the unit's status. The RS232 connector at the rear of the unit can also be used to capture this data and reset the unit should a fault occur.

The E&I 2500L is a 19" rack mount unit 24.5" high. It employs an integral power supply capable of operation from 200-240 VAC 50-60 Hz. The unit weighs approximately 190 lbs or 90 Kg.

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Class of Operation

Class A

Frequency Range

50 KHz to 12 MHz

Rated Power Output

500 Watts

Power Gain

60 dB nominal

Gain Flatness

+/- 2 dB

Input Power for Rated Output

.5 mW or -3 dBm

Input Impedance

50 Ω

Output Impedance

50 Ω

Ruggedness

Any load VSWR, any phase from open to Short circuit without damage.

Front Panel Accuracy

+/- 3% of rated power

Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 1 Vpp into 50 Ω

Protection:

INPUT: unit will withstand up to +13dBm input without damage.

THERMAL: the unit can operate at 45°C ambient. If the internal temperature becomes too high the unit will shut down and an error message will appear on the front panel. The unit may be re-set by cycling the power or from the RS232 input.

MISMATCH: the unit will tolerate any mismatch subject to thermal protection.

Accessories Supplied

The unit is supplied with an operations manual and AC line cord.

AC

200–240 VAC 50-60 Hz
Max current 20 Amps

Temperature Range

0 – 45°C

Cooling

Forced air

Weight

190 lbs (90 KG)

Dimensions

24.75 x 20 x 16.5 inches
629 x 510 x 419 mm



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