



1040L POWER AMPLIFIER

400 Watts
RF Power
For:

- Ultrasonic
- Industrial
- Medical
- Lab Use



- 10 KHz – 5 MHz
- Power Measurement
 - Forward & Reflected
- Solid State Reliability
- Forced Air Cooling

The 1040L 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 RS232 port for data collection. The 1040L reflects E&I's commitment to reliable and robust RF power.

Flexible Operation:

The 1040L produces 400 Watts of quasi linear class AB power over a frequency range of 10 KHz to 5 MHz, with a nominal power gain of 55 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 1040L is a 19" rack mount unit 3U high. It employs an integral power supply capable of operation at 115 or 220 VAC, 50 – 60 Hz. The unit weighs approximately 54 lbs or 25 Kg.

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Class of Operation

Class AB

Frequency Range

10 to 5000 KHz

Rated Power Output

400 Watts

Saturated Power Output

500 Watts

Power Gain

55 dB nominal

Gain Flatness

+/- 1 dB to 1 MHz
+/- 2 dB to 5 MHz

Input Power for Rated Output

1.3 mW or 1.14dBm

Input Impedance

50 Ω / VSWR, 1.5:1 Max

Output Impedance

50 Ω / VSWR, 2:1 Max

Ruggedness

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

Front Panel Accuracy

+/- 3% 100 KHz – 1 MHz

Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 0.7 Vpp into 50 Ω

Protection:

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

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

Accessories Supplied

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

Temperature Range

0 – 45^o C

AC Power Requirements

104 – 240 VAC
9 A @ 120 V
4.5 A @ 240 V

Cooling

Forced air

Weight

54 lbs (24.4 kg)

Dimensions (H x W x D)

5.3" x 16.5" x 20.0"
134.5 mm x 420 mm x 508 mm



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