

1.3 SPECIFICATIONS

Physical and electrical specifications are listed in Table 1 below:

Frequency Coverage	0.5 – 1000 MHz
Gain	40 dB nominal
Gain Variation	+/- 2.5 dB
Maximum Power Output	1 Watts (min)
Harmonic Distortion	-17 dBc @ 1.0 Watts Pout
Input / Output Impedance	50 Ω
Input VSWR	1.5 Maximum
Output VSWR	2.5 Maximum
Stability	Unconditionally stable into all passive loads
Power Requirement	100/240 VAC +/-10% 50–60 Hz, 45 W. Max
Size and Weight	3.4 x 6.2 x 10.5 inches, 7 lbs
	8.8 x 15.7 x 26.6 cm, 3.2 Kg
Operating Temperature	0 ⁰ to 45 ⁰ C.
Protection	Units will withstand 13 dB overdrive
Output Connectors	BNC, Standard, SMA and N-type optional

Chapter 2 Operation

2.1 INTRODUCTION

The E&I 601L RF amplifier is used to increase the RF output level of signal sources in the 0.5 to 1000 MHz range. No tuning or any other form of adjustment is required.

The 601L produces rated power output at its output connector, regardless of load impedance. Any power reflected due to output load mismatch is absorbed in the amplifier. Therefore, although the output impedance is 50 Ω (typical RF Output VSWR: 2:1), the amplifier will work into any load impedance.

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