



## 350L POWER AMPLIFIER

50 Watts  
RF Power  
For:

- Ultrasonic
- Testing
- Laboratory use
  - 250 KHz to 150 MHz
  - Instantaneous Bandwidth
  - 50 W 1dB Compression
  - Solid State
  - Air Cooled



The 350L Amplifier is a rugged source of RF power, useful for RFI/EMI, HF and VHF transmitters, plasma equipment, nuclear accelerators and general laboratory applications. The 350L represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

### FLEXIBILITY:

The 350L produces 50 Watts of class A linear power output over the entire frequency range from 250 KHz to 150 MHz. It has very low harmonic distortion along with low IMD products. Operation over the band is achieved without the need for any band switching or indeed any adjustments. The power gain is rated at 50 dB with a typical gain flatness of +/- 1.5 dB

The 350L is compatible with most signal generators, frequency synthesizers, sweep generators and other laboratory signal sources. It accurately reproduces all waveforms within its power and frequency ranges: AM, FM, SSB, pulsed and other complex modulation schemes.

### RUGGEDNESS:

The 350L is built to withstand a 13 dBm input (1.0 Volt RMS) for any VSWR load condition. The internal switched mode power supply is very conservatively rated, in order to facilitate operation over a large range of line conditions and temperatures. The forced air cooling provides for low internal temperatures, providing long term reliability. The RF power is delivered by rugged LDMoS FETs, de-rated to provide for excellent MTBF figures.

# 350L POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

250 KHz to 150 MHz

## Rated Power Output

50 Watts (P1dB)

## Saturated Power Output

> 90 W

Max power software limit set at 75 W

## Gain

47 dB (nominal)

## Gain Flatness

+/- 1.5 dB

## Input Power for rated Pout

1 mW

## Input Impedance / VSWR

50Ω / 1.5:1 maximum

## Output Impedance / VSWR

50Ω / 1.25:1 maximum

## Harmonic Level

< -23dBc

## Ruggedness

∞:1 VSWR

## Stability

Unconditional into any passive linear or reactive load.

## Protection

Input: Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR. If reflected power exceeds 70 Watts unit will shut down and require re-set.

## Front Panel Meter

Front panel indicates forward and reflected power

## Third Order Intercept Point

IP3 ~ 59 dBm

## AC Input

100 – 240 VAC 47-63 Hz.

6 A @ 120 V

3 A @ 240 V

## Temperature Range

0 – 40 C

## Cooling

Forced air

## Weight

20 lbs (9 Kg)

## Dimensions (H x W x D)

6.75 x 9.88 x 17inchs

171.5 x 251 x 432 mm



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