



## A1000 POWER AMPLIFIER

1000 Watts  
RF Power  
For:

- Ultrasonic
  - Testing
  - Laboratory use
- 
- 300KHz – 35 MHz
  - Instantaneous Bandwidth
  - 1000 W 1dB Compression
  - Air Cooled



The A1000 Amplifier is a rugged source of RF power, useful for ultrasonics, HF transmitters, RFI/EMI, plasma equipment and general laboratory applications. The A1000 represents E&I's commitment to providing RF power amplifiers of the highest quality, durability and ruggedness.

### FLEXIBILITY:

The A1000 produces 1000 Watts of Class A linear power output over the entire frequency range from 300 KHz to 35 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 60 dB with a typical gain flatness of +/- 1.5 dB

The A1000 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 A1000 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 DMoS FETs, de-rated to provide for excellent MTBF.

# A1000 POWER AMPLIFIER

## Class of Operation

Class A

## Frequency Range

300KHz – 35 MHz

## Rated Power Output

1000 Watts Min (P1dB)

## Saturated Power Output

1800 W Maximum

## Gain

60 dB (nominal)

## Gain Flatness

+/- 1.5 dB

## Input Power for rated Pout

1 mW Max

## Input Impedance / VSWR

50Ω / 1.5:1 maximum

## Output Impedance / VSWR

50Ω / 2:1 maximum

## Ruggedness

Capable of 1000 Watts forward power into oo:1 VSWR at all phase angles

## Stability

Unconditional into any passive load

## Protection

Input: Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR.

## Front Panel Display

Indicates forward and reflected power  
RMS Power +/- 5%

## AC Input

3φ 208 VAC 47-63 Hz. 30 A

## Temperature Range

0 – 30 C

## Cooling

Forced air

## Weight

650 lbs (295 Kg)

## Dimensions (L x W x H)

30 X 24 X 62 inches  
762 X 210 x 1575 mm.  
RACK



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