



# Advanced Test Equipment Rentals

[www.atecorp.com](http://www.atecorp.com) 800-404-ATEC (2832)



The "A" Series of power amplifiers covers the frequency range of 300kHz to 35MHz with linear power output ranging from 150 to 1000 Watts and with saturated power output up to 2000 Watts.

Primarily designed for use in HF transmitters, nuclear accelerators, NMR systems, plasma equipment and RFI/EMI applications. These extraordinarily compact and efficient RF sources will operate reliably under the most extreme environmental conditions without damage or failure.

Highly Linear Class A units will amplify AM, FM, SSB, Pulse and other complex modulations with minimum distortion. Unconditional stability and absolute protection against overdrive and overload makes them ideal for applications involving highly mismatched or non-linear loads such as gas plasmas. Their high gain and flat frequency response makes them compatible with all laboratory signal generators and synthesizers.

Front panel meters display RF output voltage as well as power output into 50 Ohms. Integral regulated power supplies and cooling systems permit full power operation over a wide range of temperature and AC line conditions.

# HIGH FREQUENCY

- All Solid State
- Flat .3 to 35MHz
- No Bandswitching
- Works Into Any Load Impedance
- Failsafe
- Easy Maintenance

**INPUT SIGNALS:** A highly linear Class A design, these units will accept AM, FM, SSB, CATV, Pulse and other modulations with minimum distortion.

**HARMONIC DISTORTION:** All harmonics are 25dB below the fundamental. Lower at reduced power.

**STABILITY:** Unconditionally stable; units will not oscillate for any conditions of load and source impedances.

**PROTECTION:** Units will withstand more than + 16dB overdrive (input signal of 1 V rms) for all output load conditions.

**OUTPUT METERING:** The output voltage as well as power output into 50 Ohms is monitored by a front panel meter.

**POWER SUPPLY:** Both the integral power supply and cooling system are conservatively designed to permit operation over a wide range of temperature and AC line conditions.

SPECIFICATIONS	MODEL A-150	MODEL A-300	MODEL A-500	MODEL A-1000
FREQUENCY COVERAGE	300kHz to 35MHz	300kHz to 35MHz	300kHz to 35MHz	300kHz to 35MHz
MAXIMUM CLASS A LINEAR POWER OUTPUT	150 Watts	300 Watts	500 Watts	1000 Watts
GAIN	55dB (Nominal)	55dB (Nominal)	60dB (Nominal)	60dB (Nominal)
GAIN VARIATION	± 1dB	± 1dB	± 1dB	± 1.5dB
TYPICAL 3RD ORDER INTERMODULATION INTERCEPT POINT	+ 61dBm	+ 64dBm	+ 66dBm	+ 69dBm
INPUT/OUTPUT IMPEDANCE	50 Ohms	50 Ohms	50 Ohms	50 Ohms
INPUT VSWR	1.5:1 Maximum	1.5:1 Maximum	1.5:1 Maximum	1.5:1 Maximum
OUTPUT VSWR	2:1 Maximum	2:1 Maximum	3.5:1 Maximum	4.5:1 Maximum
NOISE FIGURE	10dB (Nominal)	10dB (Nominal)	10dB (Nominal)	12dB (Nominal)
POWER REQUIREMENTS	115 Vac +6%-12% 50/60Hz 12 Amperes 230 Vac +6%-12% 50/60Hz 6 Amperes	115 Vac +6%-12% 50/60Hz 25 Amperes 230 Vac +6%-12% 50/60Hz 12.5 Amperes	208, 230, 245 Vac Tap Selected ±5% 50/60Hz 20 Amperes	208, 230 Vac ±5% 3 phase 22 Amperes per phase
OPERATING TEMPERATURE	0° to 40°C	0° to 40°C	0° to 40°C	0° to 40°C
SIZE	8.75 x 17 x 17 in. 22.2 x 43.2 x 43.2 cm	12.25 x 17.125 x 19.75 in. 31 x 43.5 x 50.2 cm	26.5 x 17 x 22.5 in. 67.3 x 43.2 x 57.1 cm	52.5 x 16.75 x 21.5 in. 133.4 x 42.5 x 54.6 cm
WEIGHT	59 lbs., 26.8 kg	89 lbs., 40.4 kg	165 lbs., 74.8 kg	370 lbs., 167.8 kg
CONNECTORS	Type N	Type N	Type N	Type N
RACK MOUNTING	Adaptors Provided	Adaptors Provided	Optional Kit Available	—