

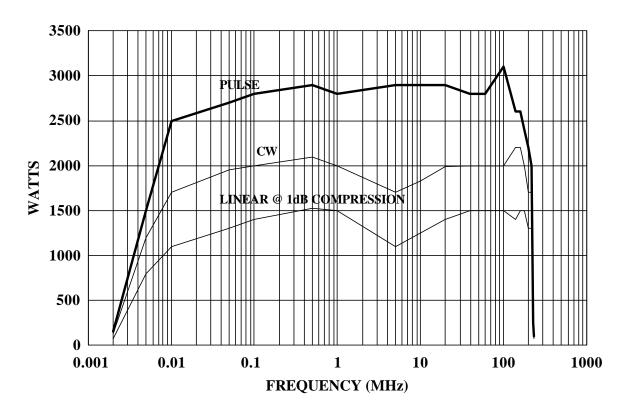
## Advanced Test Equipment Rentals - www.atecorp.com 800-404-ATEC (2832)



160 School House Road, Souderton, PA 18964-9990 USA Phone 215-723-8181•FAX 215-723-5688 MODEL 1000L 1200 WATTS CW 2500 WATTS PULSE 10kHz-220 MHz

The Model 1000L is an economical, self-contained, air-cooled broadband amplifier designed for laboratory applications that require instantaneous bandwidth, high gain and high power output. Housed in a stylish contemporary enclosure, the Model 1000L is smaller than competitive units with similar power levels. All operating controls are functionally grouped on the front panel for simplicity of operation. These include modern, lighted push-button switches for the command functions, POWER, STANDBY, OPERATE and PULSE, a control for setting the output level of the amplifier, and a meter for monitoring critical operating voltages and currents. Remote control is provided through a rear panel mounted connector. Isolated TTL level remote control can be accomplished using our CP2001 interface. Isolated IEEE-488 compatible control can be provided with our CP3000. A highly versatile unit, the Model 1000L features rugged circuitry and a quick-acting, solid state crowbar circuit to protect the final amplifier tubes from damage due to internal arcing. An electronic circuit is provided to enable rapid gating or blanking of the amplifier.

## 1000L TYPICAL POWER OUTPUT



REV060396

## SPECIFICATIONS Model 1000L

| IVI                                       | oaei 1000L  |
|---|---|
| POWER OUTPUT High Range Pulse             |   |
| Minimum                                   | . 2500 watts to 150MHz  |
|   | 1750 watts to 220MHz  |
| Duty Cycle                                |   |
| Pulse Width                               |   |
| CW  |   |
| Minimum                                   | . 1200 watts  |
| Low Range                                 | . 100 watts nominal   |
|   |   |
| FLATNESS, high range                      |   |
| FREQUENCY RESPONSE                        | ·   |
| INPUT FOR RATED OUTPUT                    | . 1.0 milliwatt maximum   |
| GAIN (at maximum setting)                 |   |
| High Range                                | . 61 dB minimum   |
| Low Range                                 | . 47 dB minimum   |
| GAIN ADJUSTMENT (continuous range)        | . 18 dB minimum   |
| INPUT IMPEDANCE                           | . 50 ohms, VSWR 1.5:1 maximum   |
| OUTPUT IMPEDANCE                          | . 50 ohms, nominal  |
| MISMATCH TOLERANCE*                       | . 100% of rated power without foldback. Will operate without damage, or oscillation with any magnitude and phase of source and load |
| MODULATION CAPABILITY                     | impedance.  |
| MODULATION CATABILIT                      | allows faithful reproduction of AM, FM, Pulse, or phase modulation appearing on the input signal                                    |
| HARMONIC DISTORTION AT 750 WATTS          |   |
| Above 120 MHz                             | Minus 30 dBc maximum  |
| Below 120 MHz                             |   |
| 2007/ 120 1/2120                          | Minus 18 dBc nominal  |
| THIRD ORDER INTERCEPT POINT               |   |
| GATING CHARACTERISTICS                    |   |
| Pulse Mode Pedestal/CW Mode Blanking      |   |
| Signal (into 180 ohms)                    | Plus or minus 2.5 to 6.0 VDC  |
| Rise time                                 |   |
| Fall time                                 |   |
| RF Rise/Fall Time                         |   |
| RF Pulse Droop                            |   |
| Ri Tust Droop                             | 1.070 maximum at 6 minisconius  |
| PRIMARY POWER (specify one)               | . 200/208 ± 5% VAC, 3 phase, 50/60 Hz<br>380/415 ± 5% VAC, 3 phase, 50/60 Hz  |
|   | 400/415 ±5% VAC, 3 phase, 50/60Hz   |
|   | 400/413 ±3% VAC, 3 phase, 30/00112<br>15.2 kVA nominal  |
| CONNECTORS                                | 13.2 KVA nominai  |
|   | Tune DNC fomale   |
| RF Outsut high range                      | 7.5   |
| RF Output, high rangeRF Output, low range |   |
| Gating/Blanking                           | J1 J  |
|   |   |
| Remote Control                            | •   |
| COOLING                                   | • • •   |
| WEIGHT                                    |   |
| SIZE (WxHxD)                              | . 56.1 x 149.9 x 58.4 cm<br>22.1 x 59.0 x 23.0 in   |
| * See Application Note #27                |   |

<sup>\*</sup> See Application Note #27