

MODEL 250W1000A M1, M2, M3, M4, M5, M6 250 WATTS CW 80 – 1000 MHz

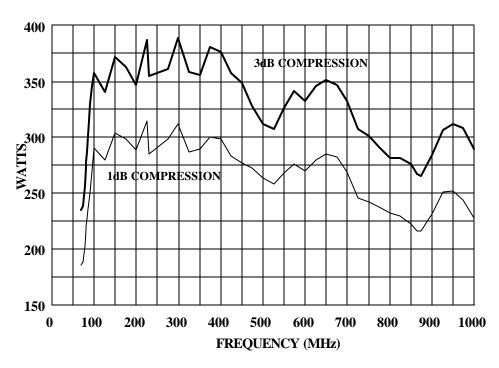
The Model 250W1000A is a portable, self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 250W1000A, when used with a sweep generator, will provide a minimum of 250 watts of RF power.

The Model 250W1000A is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a digital display, menu assigned softkeys, a single rotary knob, and four dedicated switches (POWER, STANDBY, OPERATE and FAULT/RESET) to offer extensive control and status reporting capability. The display provides operational presentation of Forward Power and Reflected Power plus control status and reports of internal amplifier status. Special features include a gain control, internal/external automatic level control (ALC) with front panel control of the ALC threshold, pulse input capability and RF output level protection. Also included is an internal RF detector which provides an output for use in self-testing or operational modes. Protection is provided by DC current level sensing and individual fusing of all output stages.

All amplifier control functions and status indications are available remotely in GPIB / IEEE-488 and RS-232 hardwire and fiber optic. The buss interface connector is located on the back panel and positive control of local or remote operation is assured by a keylock on the front panel of the amplifier.

Housed in a stylish, contemporary bench top enclosure, the Model 250W1000A provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, and as a driver for frequency multipliers and higher power amplifiers. A safety interlock can be implemented via a rear panel connector.

## 250W1000A TYPICAL POWER OUTPUT



## SPECIFICATIONS Model 250W1000A

RATED POWER OUTPUT	250 watts minimum		
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum		
POWER OUTPUT @ 3dB COMPRESSION Nominal Minimum			
POWER OUTPUT @ 1dB COMPRESSION  Nominal  Minimum			
FLATNESS	± 2.0 dB maximum ± 1.5 dB typical		
FREQUENCY RESPONSE			
GAIN (at maximum setting)	54 dB minimum		
GAIN ADJUSTMENT (Continuous Range)			
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum		
OUTPUT IMPEDANCE	50 ohms, VSWR 2.5:1 maximum		
MISMATCH TOLERANCE			
HARMONIC DISTORTION	Minus 20 dBc maximum at 200 watts		
THIRD ORDER INTERCEPT POINT			
PRIMARY POWER (user must specify)			
CONNECTORS  RF  REMOTE INTERFACES  IEEE-488  RS-232  Fiber Optic  ALC & PULSE			
SAFETY INTERLOCK			
COOLING	Forced air (self contained fans)		

## MODEL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WIEGHT	SIZE(WxHxD)
250W1000A	Type N female on front panel	Type N female on front panel	86.2kg (190 lbs)	50.3 x 47.0 x 61.0cm 19.8 x 18.5 x 24.0in
250W1000AM1	Type N female on rear panel	Type N female on rear panel	86.2 kg (190 lbs)	50.3 x 47.0 x 61.0cm 19.8 x 18.5 x 24.0in
250W1000AM2	Same as 250W1000A with enclosure removed for rack mounting		68.0kg (150 lbs)	48.3 x 44.5 x 61.0cm 19.0 x 17.5 x 24.0in
250W1000AM3	Same as 250W1000AM1 with enclosure removed for rack mounting		68.0kg (150 lbs)	48.3 x 44.5 x 61.0cm 19.0 x 17.5 x 24.0in
250W1000AM4	Type N on front panel.	Type N on rear panel.	86.2kg (190lbs)	50.3 x 47 x 61cm 19.8 x 18.5 x 24in
250W1000AM5	Same as 250W1000AM4 with enclosure removed.		68.0kg (150lbs)	48.3 x 44.5 x 61.0cm 19.0 x 17.5 x 24.0in
250W1000AM6	Type N female on front panel	Type 7-16 female on rear panel	86.2Kg (190lbs)	50.3 x 47.0 x 61.0cm 19.8 x 18.5 x24.0in