

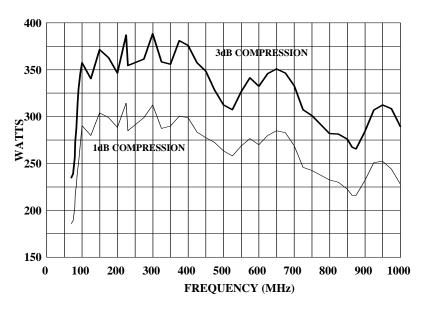
Model 250W1000A, M1 through M10 250 Watts CW 80–1000 MHz

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

	SPECIF	ICATIONS, MODEL 250W TUUUA							
RATED POWER OUTPL	ЛТТ	250 watts minimum							
INPUT FOR RATED OL	ITPUT	1.0 milliwatt maximum							
	B COMPRESSION								
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FLATNESS		± 2.0 dB maximum ± 1.5 dB typical							
FREQUENCY RESPON	SE	80 - 1000 MHz instantaneously							
GAIN (at maximum set	ting)	54 dB minimum							
GAIN ADJUSTMENT (C	Continuous Range)	18 dB minimum (4096 steps remote)							
INPUT IMPEDANCE		50 ohms, VSWR 2.0:1 maximum							
OUTPUT IMPEDANCE		50 ohms nominal							
MISMATCH TOLERANG	CE	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.							
MODULATION CAPAB	ILITY	Faithfully reproduces AM, FM, or Pulse	modulation appeari	ng on input signal.					
HARMONIC DISTORTI	ON	Minus 20 dBc maximum at 200 watts							
THIRD ORDER INTERC	EPT POINT	62 dBm typical							
PRIMARY POWER (user	must specify)	120 - 240 VAC 40/400Hz, single phase 2200 watts maximum							
		See Model Configurations							
RS-232 Fiber Optic		9 pin Subminiature D (female) ST Conn Tx and Rx RS-232							
SAFETY INTERLOCK		15 pin Subminiature D							
COOLING		Forced air (self contained fans)							
MODEL CONFIGURATIONS									
MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)					
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	86.2kg (190 lbs)	50.3 x 47.0 x 61.0cm 19.8 x 18.5 x 24.0in					
250W1000AM2	Same as 250W1000A with e	nclosure 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 250W1000A	AM4 with enclosure removed.	68.0kg (150lbs)	48.3 x 44.5 x 61.0cm					

Equipment rack v	with casters	includes a 4U s	space for	customer-installed	d equipment.
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Type N female on front panel

Type N female on front panel

250W1000AM6

250W1000AM7

250W1000AM8

250W1000AM9Same as 250W1000A with extended frequency response of 70-80MHz @10% less than rated power specifications.250W1000AM10Same as 250W1000AM2 with reduced gain for lower output noise. See separate specification sheet.

Type 7-16 female on rear panel

Type N female on front panel

See separate specification sheet.

19.0 x 17.5 x 24.0in

50.3 x 47.0 x 61.0cm 19.8 x 18.5 x24.0in

56.1 x 82.6 x 65.9cm 22.1 x 32.5 x 26.0in

86.2kg (190lbs)

104kg (230 lbs)