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160 School House Road, Souderton, PA 18964-9990 USA Phone 215-723-8181•FAX 215-723-5688 MODEL 500W1000A M1, M2, M3, M4, M5, M6, M7 500 WATTS CW 80 - 1000 MHz

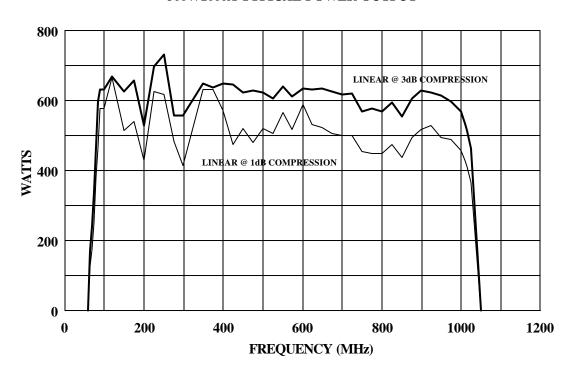
The Model 500W1000A is a self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 500W1000A, when used with an RF sweep generator, will provide a minimum of 500 watts of swept power.

The Model 500W1000A 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.

All amplifier control functions and status indications are available remotely in GPIB / IEEE-488 format and RS-232 hardware 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 equipment rack the Model 500W1000A provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, and use as a driver for higher power amplifiers.

500W1000A TYPICAL POWER OUTPUT



SPECIFICATIONS MODEL 500W1000A

RATED POWER OUTPUT	525 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 ± 0.8 dB with internal leveling		
FREQUENCY RESPONSE			
GAIN (at maximum setting)	57 dB minimum		
GAIN ADJUSTMENT (continuous range)			
INPUT IMPEDANCE			
OUTPUT IMPEDANCE			
MISMATCH TOLERANCE*			
MODULATION CAPABILITY			
HARMONIC DISTORTION			
THIRD ORDER INTERCEPT POINT			
RF POWER METER	600 watts full scale		
PRIMARY POWER (specify)			
CONNECTORS RF Input RF Output External Leveling Inputs Pulse Modulation Input Detected RF Output Safety Interlock Remote Computer Interface (fiberoptic)	See Model Configuration Type BNC female on front panel 15 pin subminiature D on rear panel 24 Pin female IEEE-488 (GPIB) and RS-232 connector on rear panel ST Conn Tx and Rx RS-232		
COOLING	Forced air (self contained fans)See Model Configuration		
WEIGHT (approximate)			
SIZE (W x H x D)* * See Application Note #27	See Model Configuration DEL CONFIGURATION		

MODEL CONFIGURATION

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Model Number	RF Connector Locations & Type	Cooling Air Entry	Size(WxHxD)	Casters	Remarks
500W1000A Type N female on rear panel	Bottom	56.1 x 149.9 x 58.4 cm	Standard		
		22.1 x 59.0 x 23.0 in			
500W1000AM1 Type N female on rear panel	Front Grills	56.1 x 152.0 x 58.4 cm	Large 5.0"		
		22.1 x 60.0 x 23.0 in	_		
500W1000AM2 Output Type 7/16 female on rear panel Input Type N rear panel	Bottom	56.1 x 149.9 x 58.4 cm	Standard		
	Input Type N rear panel		22.1 x 59.0 x 23.0 in		
500W1000AM3 Output Type N female on front panel Input Type N female on rear panel	Bottom	56.1 x 149.9 x 58.4 cm	Standard		
		22.1 x 59.0 x 23.0 in			
500W1000AM4 Type N female on front panel	Bottom	56.1 x 149.9 x 58.4 cm	Standard		
			22.1 x 59.0 x 23.0 in		
500W1000AM5 Input Type N female on front panel. Output Typ C female on front panel.	Bottom	56.1 x 149.9 x 58.4cm	Standard		
	C female on front panel.		22.1 x 59.0 x 23.0 in		
500W1000AM6 Type N female on rear panel	Bottom	56.1 x 149.9 x 58.4 cm	Standard	Variable input Lockout	
			22.1 x 59.0 x 23in		
500W1000AM7 Type	Type N female on rear panel	Front Grills	56.1 x 149.9 x 58.4 cm	Standard	
			22.1 x 59.0 x 23 in		