

MODEL 3000W1000 3000 WATTS CW 80-1000 MHz

The Model 3000W1000 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 3000W1000, when used with a sweep generator, will nominally provide over 3000 watts of RF power.

The Model 3000W1000 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a graphic 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.

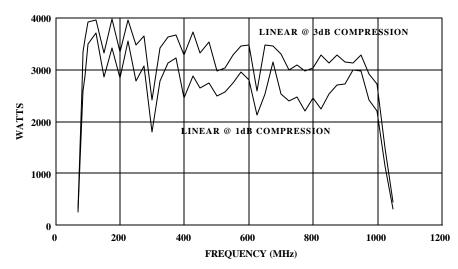
All amplifier control functions and status indications are available remotely in GPIB / IEEE-488.2 format, and RS-232 fiber optic. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a keylock on the front panel of the amplifier.

Housed in stylish, contemporary equipment racks, the Model 3000W1000 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.

The 3000W1000 consists of three 1000 watt amplifiers which can be operated as independent individual amplifiers and a controller/driver equipment rack.

By simply adding one 1000 watt amplifier and the appropriate combiner along with minor tuning, the 3000W1000 is upgraded to a 4000 watt amplifier.

## 3000W1000 TYPICAL POWER OUTPUT



## SPECIFICATIONS Model 3000W1000

RATED OUTPUT POWER	2800 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatts maximum
POWER OUTPUT @ 3dB compression Nominal Minimum	
POWER OUTPUT @ 1dB Nominal Minimum	
FLATNESS	±2.5 dB maximum ±0.8 dB with internal leveling
FREQUENCY RESPONSE	80-1000 MHz instantaneously
GAIN (at maximum setting)	65 dB minimum
GAIN ADJUSTMENT (continuous range)	18 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1 typical maximum
MISMATCH TOLERANCE *	
MODULATION CAPABILITY	
HARMONIC DISTORTION	Minus 20 dBc maximum at 2150 watts
THIRD ORDER INTERCEPT POINT	72 dBm typical
RF POWER DISPLAY	0-3100 watts
PRIMARY POWER (specify voltage)	200-250 VAC, Delta Connected (4 wire) 360-435 VAC, Wye Connected (5 wire) 50/60 Hz, 3 phase 37 kVA Maximum
CONNECTORS  RF input	Type 1 5/8 EIA on rearType BNC female on front panelType BNC female on front panelType BNC female on front panel
Remote computer interface (fiber optic)	
COOLING	Forced air (self contained fans) Enters front and bottom
WEIGHT (approximate)	1453 kg (2625 lb)
SIZE (WxHxD) (4 cabinets)	(See outline drawing) 272 x 158 x 160 cm 107 x 62 x 63 in
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