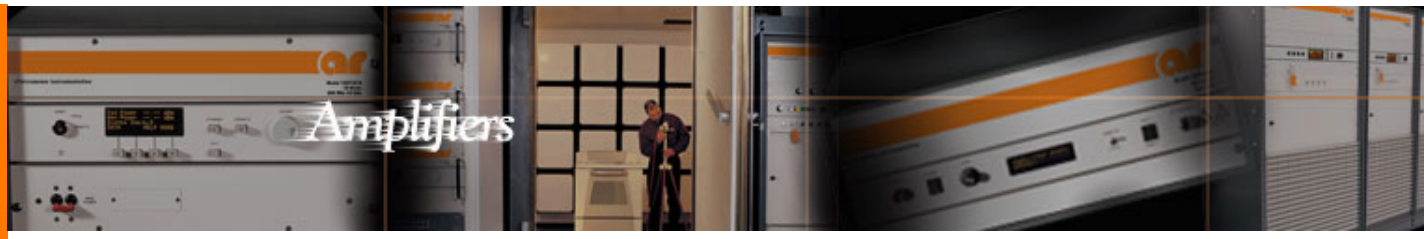


750W1000

- 750 Watts CW
- 80MHz–1000MHz

Features

The Model 750W1000 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 750W1000, when used with an RF sweep generator, will provide a minimum of 750 watts of RF power.

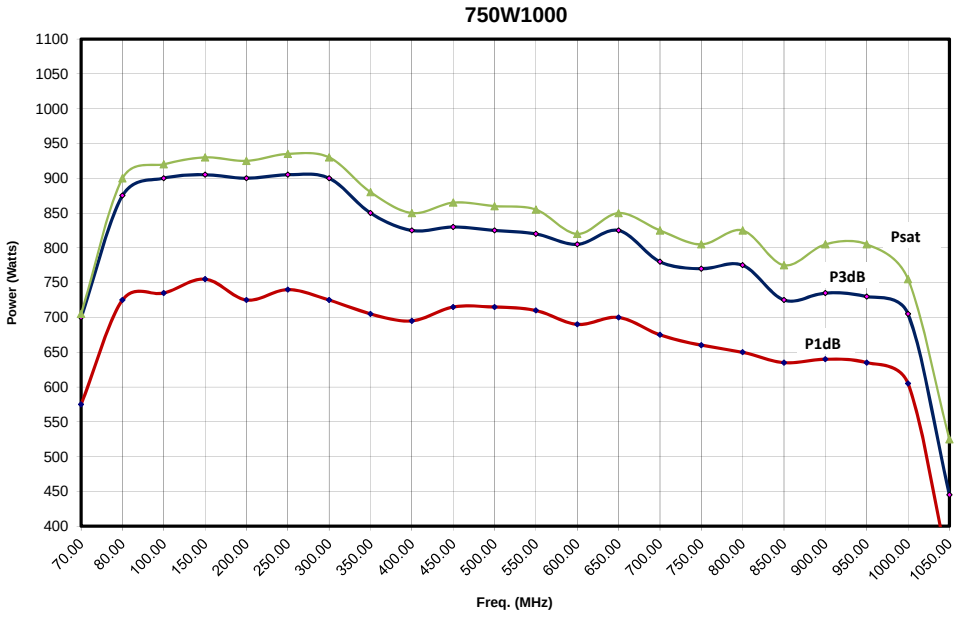
The Model 750W1000 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a color LCD touch screen and a single rotary knob to offer status reporting and control capability. The display provides operational presentation of Forward Power and Reflected Power plus amplifier status. Special features include a gain control, internal automatic level control (ALC) with front panel control of the ALC threshold, forward and reflective RF sample ports for precise power measurements and RF output level protection. Protection is provided by DC current level sensing of all output stages.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format and RS-232 hardware and fiber optic, USB and Ethernet. 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 single equipment rack, the 750W1000 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.

The 750W1000 has the ability to be upgraded at a later date to the 1000W1000E.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



AR RF/Microwave Instrumentation
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750W1000

- 750 Watts CW
- 80MHz–1000MHz

Specifications

RATED OUTPUT POWER: 750 watts minimum

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum

POWER OUTPUT @ 3 dB compression:
Nominal 900 watts, 775 watts min up to 500 MHz, 725 watts from 500 to 1000 MHz

POWER OUTPUT @ 1 dB compression:
Nominal 750 watts, 700 watts min up to 500 MHz; 600 watts min from 500 to 1000 MHz

FLATNESS: ±1.5 dB maximum; ±1.0 dB typical

FREQUENCY RESPONSE: 80–1000 MHz instantaneously

GAIN (at maximum setting): 58.8 dB minimum

GAIN ADJUSTMENT (continuous range): 25 dB minimum

INPUT IMPEDANCE: 50 ohms, VSWR 1.5:1 maximum; 1.3:1 typical

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 impedance. (See Application Note #27)

MODULATION CAPABILITY: Faithfully reproduces AM, FM, or Pulse modulation appearing on input signal.

HARMONIC DISTORTION: Minus 20 dBc maximum at 600 watts, -20 dBc typical @ 750 watts

THIRD ORDER INTERCEPT POINT: 64 dBm typical

NOISE FIGURE: 8 dB maximum, 6 dB typical

PRIMARY POWER (specify voltage): 200-240 VAC, 50/60 Hz, single phase, 3200 watts

CONNECTORS

RF Input:	Type N female, front panel
RF Output:	Type 7/16 female, rear panel
Forward sample:	BNC female, front (-60 dBc)
Reverse sample:	BNC female, front (-60 dBc)
Remote Interfaces:	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2.0	Type B
Ethernet	RJ-45
Safety Interlock:	15-pin Subminiature D, rear panel

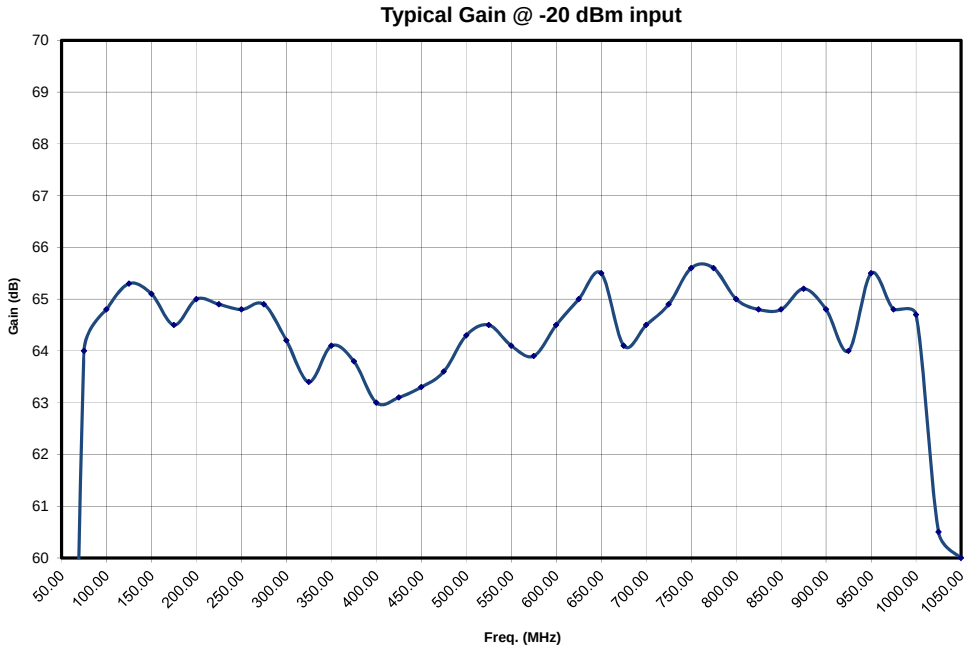
COOLING: Forced air (self contained fans), enters front and bottom

WEIGHT (approximate): 120 kg (263 lb)

SIZE (W x H x D): 50.3 x 108 x 83 cm (19.8 x 42.5 x 32.4 in)

EXPORT CLASSIFICATION: EAR99

Graphs



Graphs

750W1000

- 750 Watts CW
- 80MHz–1000MHz