



**Model 2500A225,  
M1 through M4  
2500 Watts CW  
10kHz–225MHz**

The Model 2500A225 is a self-contained, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. The amplifier is air cooled using internal self-contained liquid cooling for high performance and reliability. Push-pull LDMOS circuitry is utilized in all high power stages in the interest of low distortion and improved stability.

The Model 2500A225 is equipped with a Digital Control Panel (DCP), providing local and remote control of the amplifier. The DCP uses a 3 3/4 inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches to offer extensive control and status reporting. The display provides operational presentation of Forward Power and Reflected Power plus control status and reports of internal amplifier status.

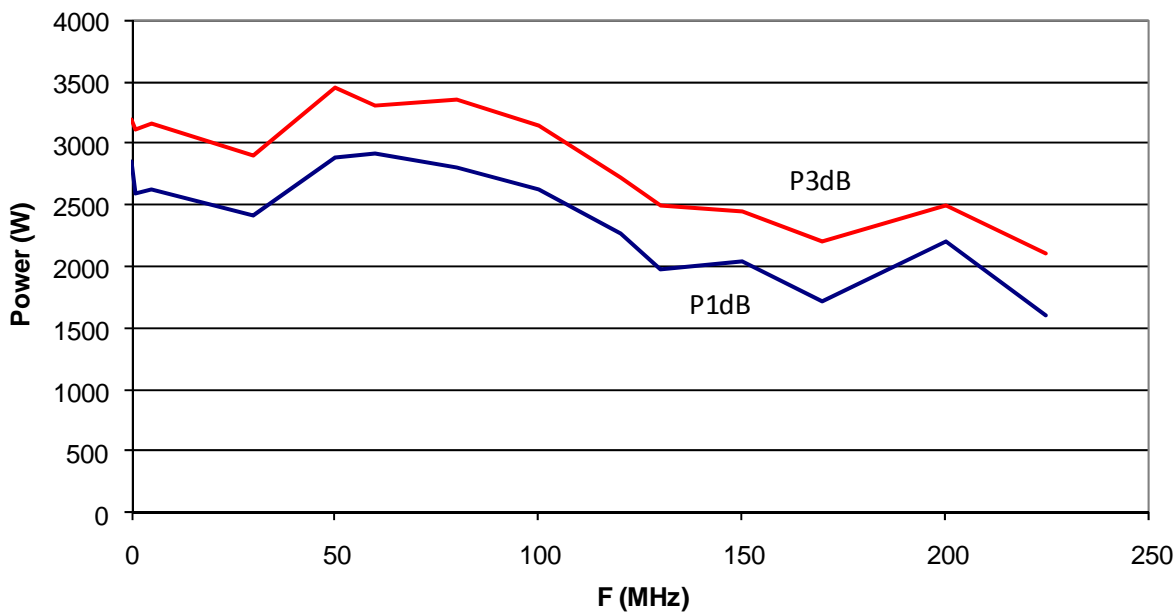
All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS-232 hard wire, fiber optic and USB. The bus interface connectors are located on the back panel and positive control of local or remote operation is assured by a keylock on the front panel of the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

High efficiency universal input, power factor corrected switching power supplies provide DC to all internal sub-assemblies.

Housed in a stylish, contemporary enclosure, the Model 2500A225 provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, particle accelerators, plasma generation, communications and use as a driver for higher power amplifiers.

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.

2500A225 Typical Output Power



### SPECIFICATIONS, MODEL 2500A225

RATED OUTPUT POWER .....	2500W, 10 kHz–100 MHz 2500–1900W, 100 MHz–225 MHz (derating slope of 4.8W/MHz)
INPUT FOR RATED OUTPUT .....	1.0 mW Max
POWER OUTPUT FOR 1dB COMPRESSION .....	2000W, 10 kHz-100 MHz 2000–1200W, 100 MHz-225 MHz (derating slope of 6.4W/MHz)
FREQUENCY RESPONSE .....	10 Khz-225 MHz instantaneously
GAIN (at max. setting).....	64 dB min.
FLATNESS.....	± 3.0 dB max ± 1.0 dB with int. leveling
GAIN ADJUSTMENT (continuous range).....	20 dB minimum
INPUT IMPEDANCE.....	50 ohms, VSWR 1.5:1 max
OUTPUT IMPEDANCE .....	50 ohms nominal
MISMATCH TOLERANCE.....	100% rated power without foldback up to 6.0:1 mismatch, above which may limit to 1250w reflected power
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or Pulse Modulation appearing on the input signal.
HARMONIC DISTORTION.....	Minus 20 dBc maximum at 1800W
RF POWER DISPLAY .....	0–3000W full scale
RISE TIME/FALL TIME.....	10 nanoseconds maximum
PRIMARY POWER (User must specify).....	187-264 VAC Delta (4-wire) 365-528 VAC, Wye (5-wire) 47-63Hz, 3-phase 10,000W maximum

#### CONNECTORS

RF Input .....	See Model Configurations
RF Output .....	See Model Configurations
Forward Sample.....	BNC Female on front panel
Reverse Sample.....	BNC Female on front panel
Remote Control.....	24-pin Female GPIB/IEEE-488, 9-pin RS-232 and USB on rear panel
Remote Control (fiber optic) .....	ST Connector, Tx and Rx RS-232
Safety interlock.....	15 pin female Type D on rear panel

IEEE-488 (GPIB) & RS-232 INTERFACE ..... Allows control of all amplifier functions and monitoring of all status indications via standard GPIB/IEEE-488 or RS-232 commands

COOLING..... Forced air, internal self-contained liquid

WEIGHT (max.)..... 159 kg (350 lb)

SIZE (W x H x D)..... 56.1 x 109.2 x 88.9 cm (22.1 x 43.0 x 35.0 in)

#### MODEL CONFIGURATIONS

Model	RF Input	RF Output
2500A225	N Female, rear panel	7-16 DIN Female, rear panel
2500A225M1	N Female, front panel	7-16 DIN Female, front panel
2500A225M2	N Female, front panel	7-16 DIN Female, rear panel
2500A225M3	Same as M1, cabinet removed for placement in user-supplied cabinet. Contact factory for mounting requirements.	
2500A225M4	See separate specification sheet.	