

rf/microwave instrumentation

Model 1000A225, M1 1000 Watts CW 10kHz-225MHz

The Model 1000A225 is a self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull MOSFET circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability.

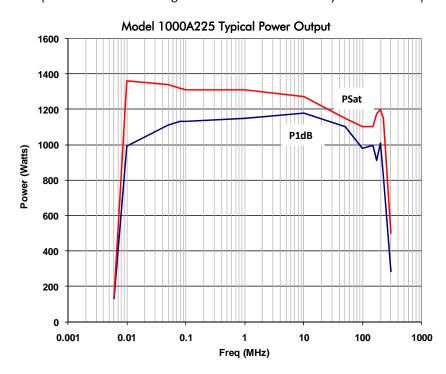
The Model 1000A225 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a 3-3/4 inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches (POWER, STANDBY, OPERATE and FAULT/RESET) to offer 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 automatic level control (ALC) with front panel control of the ALC threshold and RF output level protection. RF Sample Ports are included to monitor forward and reverse power.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, and RS-232 hard wire and 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 1000A225 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.



SPECIFICATIONS, MODEL 1000A225

Model Number RF	MODEL CONFIGURATIONS Input RE Output
SIZE (W x H x D)	56.1 x 109.2 x 88.9 cm (22.1 x 43.0 x 35.0 in)
WEIGHT (maximum)	,
	Forced air (self contained fans), internal self-contained liquid
,	Allows control of all amplifier functions and monitoring of all status indications.
Remote Control (Fiber Optic)	See Model ConfigurationsType BNC female on front panelType BNC female on front panel24 pin female GPIB/IEEE-488, 9-pin RS-232 and USB connectors on rear panelST connector. Tx and Rx RS-23215 pin female Type D on rear panel
PRIMARY POWER	187–264 VAC 47–63 Hz, single phase 5,000 watts maximum at .95 P.F. typical
RF RISE/FALL TIME	
RF POWER DISPLAY	
THIRD ORDER INTERCEPT POINT	· ·
HARMONIC DISTORTION	
	Will faithfully reproduce AM, FM or Pulse modulation appearing on the input signal.
MISMATCH TOLERANCE	
OUTPUT IMPEDANCE	50 ohms nominal
INPUT IMPEDANCE	
GAIN ADJUSTMENT (continuous range)	± 1.0 dB with internal leveling
FLATNESS	
GAIN (at maximum setting)	·
FREQUENCY RESPONSE	700 watts minimum
POWER OUTPUT @ 1 dB COMPRESSION	
INPUT FOR RATED OUTPUT	
RATED OUTPUT POWER	1000

Model Number	RF Input	RF Output
1000A225	N female, rear panel	7-16 DIN female rear panel
1000A225M1	N female, front panel	7-16 DIN female front panel