



**Model 600A225,
M1 through M9
600 Watts CW
10kHz–225MHz**

The Model 600A225 is a self-contained, air-cooled, broadband, completely solid state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull LDMOS circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 600A225, when used with an RF sweep generator, will provide a minimum of 600 watts of swept power.

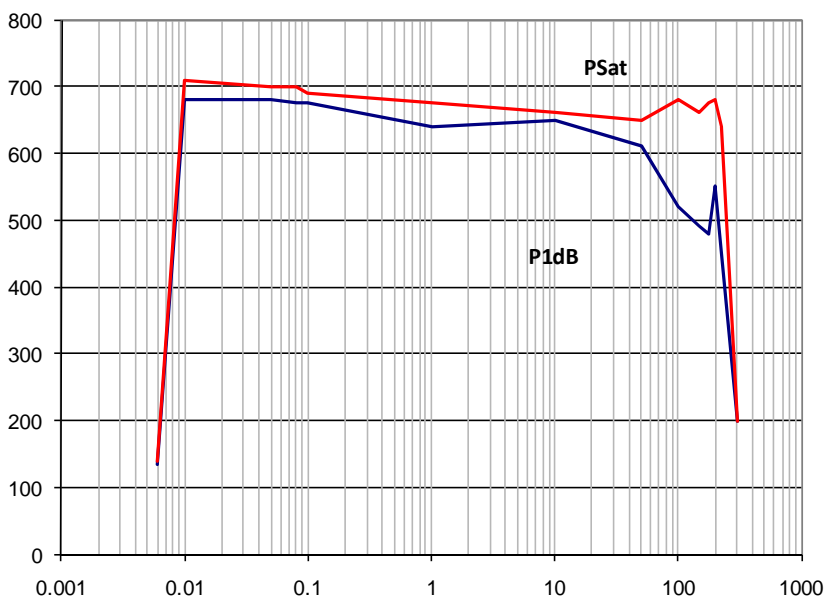
The Model 600A225 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a 3.75 inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches to offer extensive control and status reporting 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, forward RF sample port, and a reflective RF sample port for precise power measurements.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488, RS-232 and USB format. The buss 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 provides DC to all internal sub-assemblies.

Housed in a stylish, contemporary enclosure, the Model 600A225 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.

600A225 Typical Power Output



SPECIFICATIONS, MODEL 600A225

RATED OUTPUT POWER	600 watts
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3 dB compression	
Nominal	600 watts
Minimum	550 watts
POWER OUTPUT @ 1 dB compression	
Nominal	550 watts
Minimum	400 watts
FLATNESS.....	± 2.5 dB maximum
FREQUENCY RESPONSE	10 kHz–225 MHz instantaneously
GAIN (at maximum setting)	58 dB minimum
GAIN ADJUSTMENT (continuous range).....	20 dB minimum
INPUT IMPEDANCE.....	50 ohms, VSWR 1.5:1 maximum
OUTPUT IMPEDANCE	50 ohms, nominal
MISMATCH TOLERANCE.....	100% rated power without foldback up to 6.0:1 mismatch, above which may limit to 300W reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION.....	Minus 20 dBc maximum at 400 watts
THIRD ORDER INTERCEPT POINT	65 dBm typical
RF POWER DISPLAY	0–750 watts full scale
PRIMARY POWER	180–264 VAC 47–63 Hz, 2500 watts maximum @ 0.99 P.F. typical
CONNECTORS	
RF input	See Model Configuration
RF output	See Model Configuration
Forward Sample.....	BNC female on front panel (coupling factor 60 dB typical; data supplied)
Reverse Sample.....	BNC female on front panel (coupling factor 60 dB typical)
Safety Interlock.....	15 pin female Type D on rear panel
REMOTE CONTROL	
IEEE-488.....	24-pin female on rear panel
RS-232	9 pin female Type D on rear panel
USB.....	Type B female
COOLING.....	Forced air (self contained fans)
WEIGHT, maximum	See Model Configurations
SIZE (W x H x D).....	See Model Configurations

MODEL CONFIGURATIONS				
Model Number	RF Input	RF Output	Weight	Size
600A225	Type N female, front	Type N female, front	45.8 kg (101 lb)	50.3 x 34 x 56.9 cm 19.8 x 13.4 x 22.0 in
600A225M1	Type N female, rear	Type N female, rear	45.8 kg (101 lb)	50.3 x 34 x 56.9 cm 19.8 x 13.4 x 22.0 in
600A225M2	BNC female, rear	7-16 DIN female, rear	45.8 kg (101 lb)	50.3 x 34 x 56.9 cm 19.8 x 13.4 x 22.0 in
600A225M4	Same as 600A225M2 with enclosure removed for rack mounting.		35.4 kg (78 lb)	48.3 x 30.5 x 54.4 cm 19.0 x 12.0 x 21.4 in
600A225M5	Type N female, front	7-16 DIN female, rear	45.8 kg (101 lb)	50.3 x 34 x 56.9 cm 19.8 x 13.4 x 22.0 in
600A225M6	Same as 600A225M1 with enclosure removed for rack mounting.		35.4 kg (78 lb)	48.3 x 30.5 x 54.4 cm 19.0 x 12.0 x 21.4 in
600A225M7	Type N female, front	Type N female, rear	45.8 kg (101 lb)	50.3 x 34 x 56.9 cm 19.8 x 13.4 x 22.0 in
600A225M8	BNC female, rear	Type N female, rear	35.4 kg (78 lb)	48.3 x 30.5 x 54.4 cm 19.0 x 12.0 x 21.4 in
600A225M9	Same as 600A225 with enclosure removed for rack mounting.		35.4 kg (78 lb)	48.3 x 30.5 x 54.4 cm 19.0 x 12.0 x 21.4 in