

## rf/microwave instrumentation

## Model 200A400, 200 Watts CW 10kHz-400MHz

The Model 200A400 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 200A400, when used with an RF sweep generator, will provide a minimum of 200 watts of swept power.

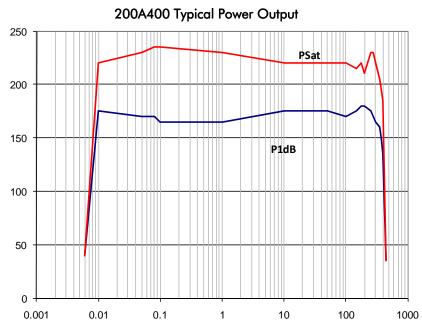
The Model 200A400 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a 3.75 inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches to offer extensive control and status reporting 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 200A400 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 of 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 200A400

	MODEL NUMBER RE INPUT RE OUTPUT	
EXPORT CLASSIFICATIONEAR99  MODEL CONFIGURATIONS		
	50.3 x 34 x 56.9 cm (19.8 x 13.4 x 22.0 in)	
	Forced air (self contained fans)	
	Type B female	
RS-232		
Reverse SampleSafety Interlock	BNC female on front panel (coupling factor 60 dB typical; data supplied)BNC female on front panel (coupling factor 60 dB typical)15 pin female Type D on rear panel	
RF output	See Model ConfigurationsSee Model Configurations	
	0–350 watts full scale	
HARMONIC DISTORTION	signal Minus 20 dBc maximum at 150 watts	
MODULATION CAPABILITY		
MISMATCH TOLERANCE		
OUTPUT IMPEDANCE	50 ohms, nominal	
•	50 ohms, VSWR 1.5:1 maximum	
,	range)20 dB minimum	
	,	
	10 kHz–400 MHz instantaneously	
FLATNESS	150-125 watts, 250MHz-400MHz (derated slope of .167W/MHz) ± 3.5 dB maximum	
POWER OUTPUT @ 1 dB compre	ession150 watts, 10kHz-250MHz	
	ussion	
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum	
RATED OUTPUT POWER		
	SI ECITICATIONS, MODEL 200A400	

MODEL NUMBER	RF INPUT	RF OUTPUT
200A400	Type N female, front	Type N female, front
200A400M1	Type N female, rear	Type N female, rear