

rf/microwave instrumentation

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

The Model 400A400 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 400A400, when used with an RF sweep generator, will provide a minimum of 400 watts of swept power.

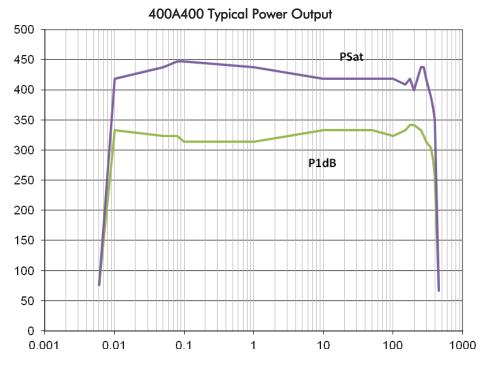
The Model 400A400 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a 3.75 inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches to offer extensive control and status reporting 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 400A400 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 400A400

	SI ECITICATIONS, MODEL 400A400	
RATED OUTPUT POWER		
INPUT FOR RATED OUTPUT		
POWER OUTPUT @ 3 dB compr	ression	
POWER OUTPUT @ 1 dB comp	ression275 watts, 10kHz-250MHz 275-225 watts, 250MHz-400MHz (derated slope of .33W/MHz)	
FLATNESS	± 3.5 dB maximum	
FREQUENCY RESPONSE	10 kHz–400 MHz instantaneously	
GAIN (at maximum setting)	56 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		
MODULATION CAPABILITY		
HARMONIC DISTORTION	Minus 20 dBc maximum at 250 watts	
THIRD ORDER INTERCEPT POIN	T65 dBm typical	
RF POWER DISPLAY	0–750 watts full scale	
PRIMARY POWER		
RF output		
USB	Type B female	
COOLING	Forced air (self contained fans)	
WEIGHT, maximum	45.8 kg (101 lbs)	
SIZE (W x H x D)	50.3 x 41.9 x 56.9 cm (19.8 x 16.5 x 22.0 in)	
EXPORT CLASSIFICATION	EAR99	
MODEL CONFIGURATIONS MODEL NUMBER RE INPLIT RE OLITPLIT		
	MODEL NUMBER RE INPUT RE OUTPUT	

MODEL NUMBER	RF INPUT	RF OUTPUT
400A400	Type N female, front	Type N female, front
400A400M1	Type N female, rear	Type N female, rear