

PROFESSIONAL SERIES POWER AMPLIFIERS

PC2002 PC2002M



 **YAMAHA**

A PAIR OF HIGHLY DEVELOPED, HIGH POWER AMPLIFIERS

Reliability and performance in the tradition of the proven P-2200 and P2201, but with still more power, more of the features you asked for.

Ideal for use in concert and theatrical sound reinforcement, recording studios, broadcast studios, discos, motion picture theatres, industrial installations—in any demanding mono or stereo sound system.

Newly designed protection circuitry senses DC, excessive levels, and thermal distress, and displays status with three front-panel LEDs.

PC2002M is identical to PC2002, but also has two large, illuminated peak-reading output meters.

Delivers 240 watts continuous average sine wave (rms) per channel into 8 ohms with no more than 0.05% THD.

Rear panel Mono-Stereo switch permits unit to be operated as a single channel "super amp" that delivers 700 watts into 8 ohms.

High damping factor aids in the efficient transfer of power to the speakers, especially with regard to a tightly controlled "bottom end."

Ultra-low harmonic and intermodulation distortion preserve clean sound and minimize danger to speakers.

Detented, calibrated, precision input attenuators for accurate and repeatable level adjustments . . . now with control locks to avoid unintentional changes in level.

Two balanced XLR and two unbalanced phone jack inputs per channel (switch selected) avoid the need for adapters and permit more than one amplifier to be "chained" to a given source.

XLR pin 1 ground lift switch for avoiding hum caused by ground loops.

Extra heavy duty, box-type steel chassis with internal aluminum braces for maximum strength without excessive weight. Each channel's electronics and heat sinks are on plug-in modular subframes for rapid access.



PC2002M REAR PANEL (SHOWN ARE TYPICAL OF PC2002)

U.S. & CANADIAN MODELS



GENERAL MODEL



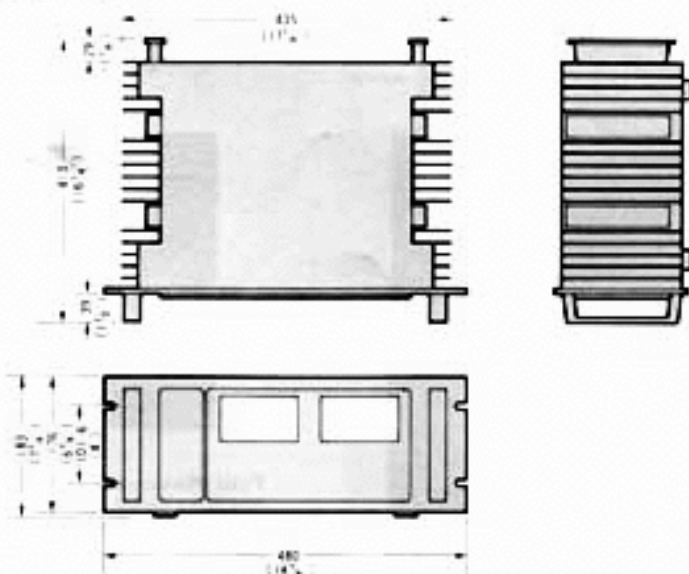
SPECIFICATIONS

		PC2002/PC2002M	
POWER OUTPUT LEVEL	Continuous average sine wave power with less than 0.05% THD, 20 Hz to 20 kHz.	Stereo, 8 ohms	240W + 240W
		Mono, 16 ohms	480W
		Mono, 8 ohms	700W
FREQUENCY RESPONSE	10 Hz to 50 kHz, 8 ohms, 1W	+0dB -0.5dB	
POWER BAND WIDTH	Stereo 8 ohms 120W THD 0.1%	10 Hz - 100 kHz	
	Mono 16 ohms 240W THD 0.1%	10 Hz - 100 kHz	
TOTAL HARMONIC DISTORTION	Stereo 8 ohms 120W	1 kHz	Less than 0.003%
	Mono 16 ohms 240W	20 to 20 kHz	Less than 0.007%
	Mono 8 ohms 350W	20 to 20 kHz	Less than 0.01%
INTER MODULATION DISTORTION	70 Hz 7kHz mixed 4 : 1	Stereo 8 ohms, 120W Mono 16 ohms, 240W	Less than 0.01% Less than 0.01%
INPUT SENSITIVITY	Input level which produces 100W output into 8 ohms.		0 dB (0.775 V rms)
INPUT IMPEDANCE	Balanced and unbalanced inputs, maximum attenuator setting		25 kohms
8 OHM DAMPING FACTOR		1 kHz	Greater than 350
		20 to 20 kHz	Greater than 200
S/N RATIO	Input shorted at @12.47 kHz		110 dB
	Input shorted at @IHFA		115 dB
SLEW RATE		Stereo 8 ohms	60 V/μsec
		Mono 16 ohms	90 V/μsec
CHANNEL SEPARATION	8 ohms 120W	1 kHz	95 dB
	8 ohms 120W	20 to 20 kHz	80 dB
RELAY MUTING TIME	From power on		4 ± 1 sec
INDICATORS	Power ON		LED
	Protection (Relay OFF)		LED
	Thermal Overload (85 ± 5 degrees C)		LED
	Clipping (2% THD)		LED
	Peak Power Meters (PC2002M only)		-50 dB to +50 dB range 0 dB = 100W into 8 ohms
FRONT PANEL CONTROLS	Power Switch Input Attenuators (one per channel)		Push-ON/Push-OFF 22 detent positions in -1 dB steps (0, -1, -2 ... -20, ∞)
REAR PANEL CONTROLS/ CONNECTORS	Mode switch		STEREO/MONO
	Pin 1 GND Switch (XLR connectors)		ON/OFF
	Balance/Unbalance Switch		BALANCE (XLR)/UNBALANCE (PHONE)
POWER REQUIREMENTS	U.S. & CANADIAN Models		120V, 60 Hz
	GENERAL Model		220/240V, 50/60 Hz
POWER CONSUMPTION	U.S. & CANADIAN Models		700 W
	GENERAL Model		1600W
DIMENSIONS	(W x D x H)		480 x 413 x 183 mm (18-7/8 x 16-1/4 x 7-1/4")
WEIGHT	PC2002		20 kg (44 pounds)
	PC2002M		20.5 kg (45 pounds)

NOTE: U.S. & CANADIAN Models must be operated into 8 ohms in stereo mode and 16 ohms in mono mode in accordance with safety regulations.

All specifications subject to change without notice.

DIMENSIONS



YAMAHA
YAMAHA CORPORATION
PO Box 1, Hamamatsu, Japan