

MC402 POWER AMPLIFIER



Producing a minimum 400 watts per channel in stereo, 800 watts in mono, the MC402 delivers power that is fully balanced from input to speaker output. The extraordinary quad-differential design of the MC402 actually consists of four complete amplifier circuits. Each channel contains two amplifier circuits, each the mirror image of the other, whose outputs are combined in the unique McIntosh Output Autoformer® resulting in totally balanced operation from input to speaker output and the cancellation of virtually all noise and distortion.

The exclusive McIntosh Output Autoformer® is a handcrafted matching device that provides an ideal impedance match for all speaker types regardless of their rated impedance. Any departure from an optimum impedance match increases stress on the amplifier which threatens a rise in distortion as well as a reduction in the life expectancy of the amplifier. McIntosh Output Autoformers® enable the MC402 to operate at maximum efficiency and to always deliver full power, without stress, to any type of loudspeaker.

“unique quad-differential design cancels noise and distortion”

Quad Balanced Design

Exclusive McIntosh Power Assurance System

High Output Current Capability

Wide Bandwidth

Fiber-Optic Illuminated 3D Glass Frontpanel

McIntosh®

LEGENDARY™

**FREQUENCY RESPONSE**

20Hz to 20kHz, +0 / -0.25dB
10Hz to 100kHz, +0 / -3.0dB

TOTAL HARMONIC DISTORTION

0.005% max. at any level from 250mW to rated power output

INTERMODULATION DISTORTION

SMPTE 0.005% maximum if instantaneous peak output does not exceed twice the output rating

A-WEIGHTED SIGNAL-TO-NOISE RATIO

Unbalanced: 94dB (120dB below rated output)
Balanced: 98dB (124dB below rated output)

RMS POWER OUTPUT

400W min. (stereo) or 800W min. (mono) sine wave continuous average power output from 20Hz-20,000Hz

INPUT IMPEDANCE

10,000 ohms (unbalanced)
20,000 ohms (balanced)

OUTPUT LOAD IMPEDANCE

Terminals for 8, 4, or 2 ohms (stereo)
Terminals for 1, 2, or 4 ohms (mono)

INPUT SENSITIVITY

2.0V unbalanced, 4.0V balanced

WIDE BAND DAMPING FACTOR

Greater than 40

DYNAMIC HEADROOM

2.1dB

RATED POWER BAND

20Hz to 20kHz

POWER GUARD®

Clipping is prevented and THD does not exceed 2% with up to 14dB overdrive at 1kHz

POWER REQUIREMENTS

120V 50/60Hz, 10A

OVERALL DIMENSIONS (H X W X D)

17 1.2 (44.45 cm) x 9 7/16 (23.97cm) x
20 (50.8 cm)

WEIGHT

110.5 lbs. (50.1kg) net
143.5 lbs. (65.1kg) boxed

ADDITIONAL SPECIFICATION

DC Failure Protection

Thermal Sensors

Turn-on Delay

Soft Start Inrush Protection

Balanced and Unbalanced Inputs

Remote Power Control

Massive Gold Plated Output Binding Posts

Stainless Steel Chassis w/ Super Mirror Finish

EXCLUSIVE MCINTOSH POWER ASSURANCE SYSTEM

A collection of technologies that enhance performance and reliability while protecting the amplifier and loudspeakers.

POWER GUARD®

A waveform comparison circuit continuously monitors both input and output signals. Power Guard dynamically adjusts the input level to avoid clipping while preventing harsh sounding distortion.

SENTRY MONITOR®

Fuse-less short-circuit protection circuit disengages the output stage before current exceeds safe operating level – resets automatically.

OUTPUT AUTOFORMER®

Unique McIntosh technology delivers the full rated amplifier output with the least possible distortion into loudspeaker impedances of 2, 4, or 8 ohms; you get all the power you paid for and the freedom to choose any loudspeaker.

WATTMETER

Swift, accurate response reveals program peaks so staying within the power limits of your loudspeakers is easy.

FOR THE CONSUMER'S PROTECTION

In order to ensure the highest level of customer satisfaction, "new" McIntosh products may only be purchased over-the-counter or delivered and installed by an Authorized McIntosh Dealer.

McIntosh products that are purchased over the Internet, by phone or mail order are presumed to be "used" and do not qualify for any McIntosh Warranty. McIntosh does not warrant, in any way, products that are purchased from anyone who is not an Authorized Dealer or products that have had their serial number altered or defaced.

McIntosh®

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