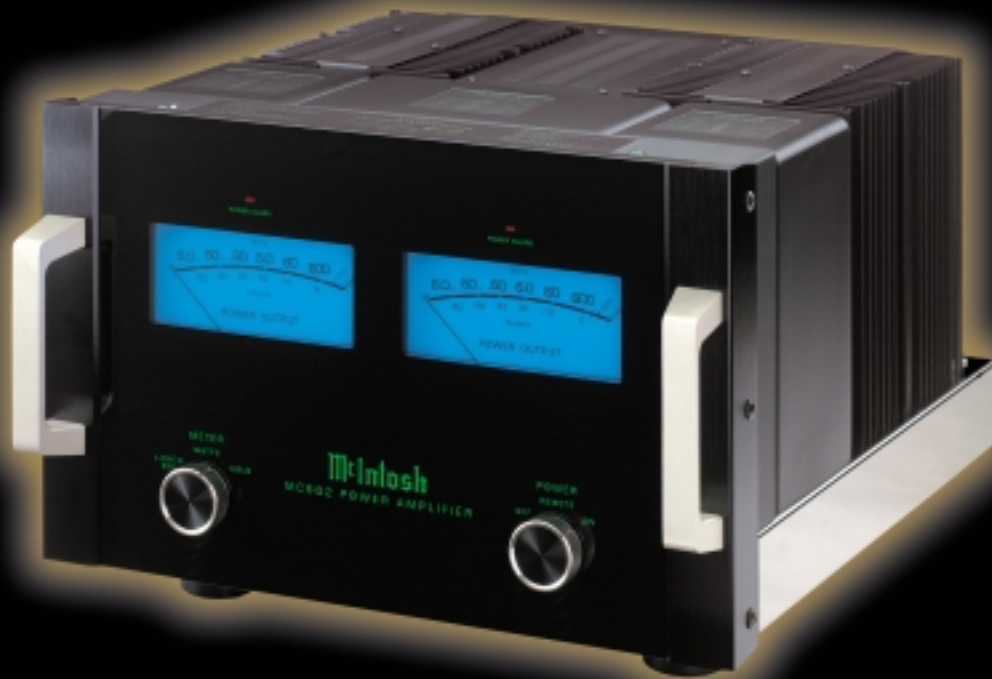


# MC602 Power Amplifier



**“Quad-differential design  
cancels noise and distortion”**

WATTS

Producing a minimum 600 watts per channel, the MC602 delivers power that is fully balanced from input to speaker output. The extraordinary quad-differential design of the MC602 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<sup>®</sup> resulting in totally balanced operation from input to speaker output and the cancellation of virtually all noise and distortion.

The exclusive McIntosh Output Autoformer<sup>®</sup> 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<sup>®</sup> enable the MC602 to operate at maximum efficiency and to always deliver full power, without stress, to any type of loudspeaker.

- Quad-Differential Design
- Dual High-Voltage Power Supplies
- Exclusive McIntosh Output Autoformer<sup>®</sup>
- Exclusive McIntosh Power Assurance System
- Power Guard<sup>®</sup> Clipping Protection
- Sentry Monitor<sup>®</sup> Current Protection
- Thermal Protection
- DC Failure Protection
- Turn-On Delay
- Soft Start Inrush Protection
- Illuminated Peak-Responding Wattmeters
- Balanced Input
- Remote Power Control

POWER OUTPUT

*A Tradition of Excellence*



McIntosh Laboratory, Inc. 2 Chambers Street, Binghamton, New York 13903-2699  
Tel (607) 723-3512 • US Toll-Free (800) 538-6576 • Fax: (607) 724-0549 • www.mcintoshlabs.com

*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.*

## MC602 Power Amplifier

### EXCLUSIVE McINTOSH POWER ASSURANCE SYSTEM

A collection of technologies that enhance performance and reliability and protect the amp and loudspeakers.

#### Power Guard

A waveform comparison circuit continuously monitors both input and output signals. If any difference is detected, Power Guard dynamically adjusts the input level to ensure maximum power output while preventing harsh sounding clipping distortion.

#### Sentry Monitor

Current protection continually senses the voltage and current of the output stage and confines it to a safe limit, without limiting power output.

#### DC Failure Protection

Protects speakers against output circuit failure. Any DC current that appears in the output is shunted to ground by the output autoformer.

#### Thermal Sensors

Protects against overheating if cooling air is blocked and output transistors become too hot.

#### Turn-on Delay

Delays operation for about two seconds after turn-on, to silence any pops or thumps generated by other equipment.

#### Soft Start Inrush Protection

Eliminates component stress during turn-on. Thermistors in the power transformer act as a cushion against inrush current.

#### FREQUENCY RESPONSE

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

#### TOTAL HARMONIC DISTORTION

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

#### INTERMODULATION DISTORTION

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

#### A-WEIGHTED SIGNAL-TO-NOISE RATIO

Unbalanced: 93dB  
(120dB below rated output)  
Balanced: 97dB  
(124dB below rated output)

#### RMS POWER OUTPUT

600W min. (stereo) sine wave  
continuous average power output  
from 20Hz to 20kHz

#### INPUT IMPEDANCE

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

#### OUTPUT LOAD IMPEDANCE

Terminals for 8, 4, or 2 ohms

#### INPUT SENSITIVITY

4.9V unbalanced  
2.45V balanced

#### WIDEBAND DAMPING FACTOR

100@8 ohms

#### 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, 15A

#### OVERALL DIMENSIONS (H X W X D)

11" (28 cm) x 17 3/4" (46 cm)  
x 19 5/8" (49.83 cm)

Panel clearance required in  
front of mounting panel is  
1 3/4" (4.5 cm) for handles

#### WEIGHT

155 lbs. (70.31kg) net  
180 lbs. (81.65kg) boxed

Fully balanced quad-differential design

600 watts per channel

Dual high-voltage power supplies

Balanced input

Exclusive McIntosh Output Autoformers®

Wide power bandwidth, low distortion

Exclusive McIntosh Power Assurance System

Illuminated peak-responding, true-reading  
watt meter with hold

Remote power control

Fanless convection cooling

Modular construction with stainless steel chassis  
with super mirror finish

1/2"-thick glass front panel with illuminated nomenclature

