MC602
Power Amplifier

“Quad-differential design cancels noise and distortion”

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® 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 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®
Exclusive McIntosh Power Assurance System
  Power Guard® Clipping Protection
  Sentry Monitor® Current Protection
  Thermal Protection
  DC Failure Protection
  Turn-On Delay
  Soft Start Inrush Protection
  Illuminated Peak-Responding Wattmeters
Balanced Input
Remote Power Control

A Tradition of Excellence
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.

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

**A-Weighted Signal-to-Noise Ratio**
Unbalanced: 93dB
Balanced: 97dB

**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