

MC2301 VACUUM TUBE MONOBLOCK POWER AMPLIFIER



The new McIntosh MC2301 monoblock tube amplifier hails the fusion of our Unity Coupled and Quad- Differential circuit topologies. From the inception of McIntosh Labs, Unity Coupling stands as one of the premiere tube topologies ever conceived, making possible revolutionary power bandwidth and low distortion. Quad-Differential circuitry, a recent McIntosh innovation, cancels nearly all induced noise and circuit-borne nonlinearities resulting in the lowest noise levels ever achieved in a tube amplifier. With 300 Watts available at 8, 4 or 2 ohms, the MC2301 provides power enough to drive even the most demanding loudspeakers. From the demands of massed chorale to full-on rock and roll, the MC2301 delivers the most extraordinarily lifelike and dynamic performance ever heard from a McIntosh tube amplifier.

The MC2301 design is fully balanced from input to speaker output and the first ever McIntosh tube amplifier to include Quad-Differential circuitry. A blend of tube and solid state devices comprise a super-linear input stage and the output stage, based upon eight KT88 power tubes, terminates in a custom multifilar wound output transformer providing very low distortion and wide power bandwidth. The result? A staggering 117dB signal to noise ratio combined with vanishingly low distortion to provide remarkable low-level linearity and unmatched liquidity.

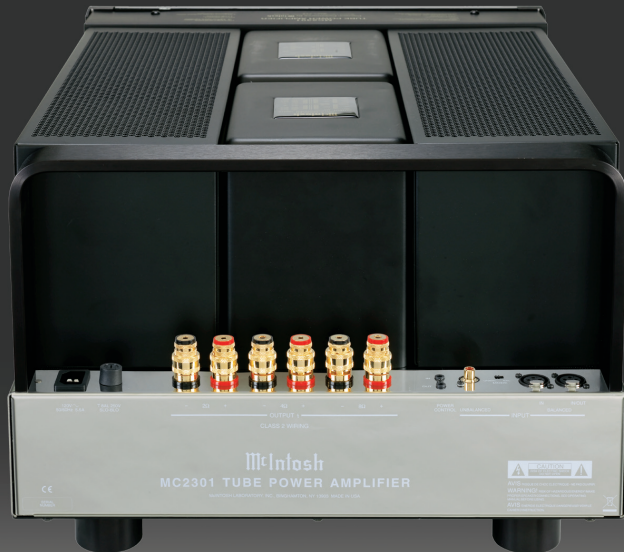
“high bandwidth in a tube amplifier thanks to an innovative McIntosh circuit”

- 300 Watts Mono Power Output
- Balanced Design
- Multifilar Wound Output Transformers
- Wide Power Bandwidth
- Two Balanced Inputs/Outputs
- Remote Power Control with Meter Light Control
- Low Distortion from 20Hz to 20kHz
- Large Gold Plated Five-Way Binding Posts
- ½” Thick Glass Front Panel with Tube View
- Fiber Optic Light Diffuser Illumination

McIntosh®

LEGENDARY™

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POWER OUTPUT

300 watts into an 8, 4 or 2 ohm load is the minimum sine wave continuous average power output.

OUTPUT LOAD IMPEDANCE

Terminals for 8, 4 and 2 ohms

RATED POWER BAND

20Hz to 20kHz

TOTAL HARMONIC DISTORTION

0.5% maximum harmonic distortion at any level from 250 milliwatts to rated power output.

FREQUENCY RESPONSE

+0, -0.5dB from 20Hz to 20kHz
+0, -3.0dB from 10Hz to 100kHz

INPUT SENSITIVITY

1.7V Unbalanced
3.4V Balanced

A-WEIGHTED SIGNAL-TO-NOISE RATIO

117 below rated output

INTERMODULATION DISTORTION

0.5% maximum if instantaneous peak power output does not exceed twice the rated output, for any combination of frequencies from 20Hz to 20kHz

WIDE BAND DAMPING FACTOR

Greater than 15

INPUT IMPEDANCE

47,000 ohms

TUBE COMPLIMENT

2 - 12AT7 Voltage Amplifiers
8 - KT88 or 6550 Output Tubes

POWER REQUIREMENTS

100 volts, 50/60Hz, 6.6 amps
110 volts, 50/60Hz, 6 amps
120 volts, 50/60Hz, 5.5 amps
220 volts, 50/60Hz, 3 amps
230 volts, 50/60Hz, 2.75 amps
240 volts, 50/60Hz, 2.75 amps
Standby 1W

DIMENSIONS (H x W x D including front panel and cables)

12-5/16" (31.3cm) x 17-3/4" (45.1cm)
x 23" (58.4cm)

WEIGHT

116 pounds (52.6kg) net
141 pounds (64kg) in shipping carton

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® TUBE PROTECTION

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

UNITY COUPLED OUTPUT CIRCUIT®

Output power is taken from both the plate and cathode of the output tubes. Conventional designs only take output from the latter. This allows ½ the turns ratio, or ¼ the impedance transformation of conventional designs. The result is much lower distortion, wider bandwidth and increased loudspeaker damping factor.

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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