

# 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 inherent noise and circuit-born 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 is 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™

**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.

**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.

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