

MA6300 Integrated Amplifier



**“the latest McIntosh engineering,
applied to an audiophile focused design”**

The MA6300 is the latest integrated amplifier, rich with all the premium technologies that McIntosh is famous for including Power Assurance System and Silent Electromagnetic Switching. With 100 watts per channel at 8 ohms and 160 watts into 4 ohm loads, the MA6300 can effortlessly power virtually any speaker from one of seven source selections: CD1, CD2, Tuner, Phono, Tape, TV and DVD.

Featured in the MA6300 are ThermalTrak™ output transistors that instantly and accurately monitor their operating temperature and adjust bias as needed, resulting in low distortion at all power levels without excess heat. The MA6300 runs cooler than many integrated amplifiers even at peak levels.

The glass front panel is comprised of the distinctive “blue eyes” output meters along with controls for Balance, Volume, Mute, Standby/On, 1/4" Headphone Jack and the seven Source Selection Buttons. The latest LED fiber-optic panel illumination is used. A turn on delay prevents pops or thumps generated in other equipment from causing annoying noises or damaging speakers.

Only McIntosh can combine two basic audio components into a single instrument and still retain traditional McIntosh performance, quality and reliability. The MA6300 provides all of this in a more compact, space-saving configuration. Those considering a McIntosh system for the first time will find the MA6300 a very comfortable place to start.

Balanced XLR connection
for the CD1 Input
MM Phono Input
Preamp Out and Power Amp
Input Jacks
Serial Data Output Port
for Each Input Selection
Power Guard
Turn On Delay
R-Core Transformer
Front Panel Headphone Jack

A Tradition of Excellence



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ELECTRONIC INPUT SWITCHING

Digital Logic integrated circuits drive electromagnetic switches on all seven inputs and operating functions for reliable noiseless distortion free switching.

BALANCED INPUT

Allows the connection of a source component using long cable lengths without a loss in sound quality.

R-CORE POWER TRANSFORMER

A regulated Power Supply and special R-Core Power Transformer ensures stable noise free operation even when the AC power line varies.

EXCLUSIVE McINTOSH POWER ASSURANCE SYSTEM

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

COMPANION PRODUCTS



The MCD201 SACD/CD Player and the XLS320 Loudspeakers are logical companions for the MA6300. Your Authorized Dealer can provide additional information on other McIntosh product combinations.

POWER OUTPUT

100 watts into an 8 ohm load is the minimum sine wave continuous average power output. The output RMS voltage is 28.3V across 8 ohms.

160 watts into a 4 ohm load is the minimum sine wave continuous average power output. The output RMS voltage is 25.3V across 4 ohms.

OUTPUT LOAD IMPEDANCE

8 and 4 ohms

RATED POWER BAND

20Hz to 20kHz

TOTAL HARMONIC DISTORTION

0.005% max harmonic distortion at any power level from 250 milliwatts to rated power, 20Hz to 20kHz

DYNAMIC HEADROOM

1.4dB

FREQUENCY RESPONSE

+0, -0.5dB from 20Hz to 20kHz
+0, -3dB from 10Hz to 100kHz

PREAMPLIFIER MAIN OUTPUT

1V for rated input (8V maximum)

SENSITIVITY (FOR RATED OUTPUT)

High level: 250mV unbalanced,
500mV Balanced;
Phono: 2.5mV; Power Amp In, 1V

SIGNAL-TO-NOISE RATIO (A-Weighted)

High Level: 97dB below rated output
Phono: 90dB below 10mV input
Power Amplifier: 110 below rated output

INTERMODULATION DISTORTION

0.005% max, if the instantaneous peak power output is rated power or less per channel with both channels operating for any combination of frequencies from 20Hz to 20kHz

WIDE BAND DAMPING FACTOR

200 at 8 ohms; 100 at 4 ohms

INPUT IMPEDANCE

High Level: 20K ohms; Phono: 47K ohms: 65pF;
Power Amp In: 10K ohms

MAXIMUM INPUT SIGNAL

High Level: 8V; Phono: 90mV;
Power Amplifier In: 8V

MAIN OUTPUT IMPEDANCE

50 ohms

POWER GUARD

Less than 2% THD with up to
16dB overdrive at 1000Hz

VOLTAGE GAIN

High Level to Tape Output: 0dB
High Level to Main Output: 12dB
Phono to Main Output: 52dB

POWER REQUIREMENTS

100/110 Volts, 50/60Hz at 3.6 amps
120 Volts, 50/60Hz at 3.2 amps
220/230/240 Volts, 50/60Hz at 1.8 amps

OVERALL DIMENSIONS (HxWxD)

7-5/8" (19.4cm) x 17-1/2" (44.5cm) x 22" (55.9cm)
including front panel and knobs.

WEIGHT

37 lbs. (16.8kg) net, 55 lbs. (24.9kg) boxed

