

**LAX Sonic Solution...** a new *altitude* in professional sound performance. Introducing a new line of professional electronics from LAX Sonic Solution. These advanced new product designs were conceived with one purpose in mind: to put the highest quality electronics in the hands of audio professionals while offering unparalleled performance and value.

## MA5200 MKII POWER AMPLIFIER



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### Technical Specifications

Incorporating the latest generation of electronic circuitry in an elegant chassis design, the LAX MA5200 MKII power amplifier provides one of the highest watt per dollar ratios of any professional amplifier currently on the market. This compact, high performance class H amplifier is ideal for applications such as recorded music playback, sound reinforcement, mobile DJ, MI and live performances. The MA5200 MKII provides a range of power from 520W per channel into 8 ohms to 1540W in bridge mono mode. It also features a compact chassis design that takes up only 2 units of rack space for added space optimization.

Stereo Mode		Bridge Mono Mode		Parallel Mono Mode	
8 ohms	4 ohms	8 ohms	4 ohms	8 ohms	4 ohms
520 Watts	780 Watts	1540 Watts	1850 Watts	520 Watts	780 Watts

The MA5200 MKII includes the following design features that are typically unavailable in other amplifiers within its price class :

- Forced air cooling system with two auto speed-controlled, low noise fans
- Built in limiter
- Logic output circuitry which generates large voltage swings while avoiding electrical stress on the output stages
- Output device emulation protection which keeps the amplifier working under extreme operating conditions
- Protection against shorted outputs, mismatched loads, overheating, DC input/output and high frequency overload, and full internal fault protection
- Turn-on soft start operation

# MA5200 MKII Technical Specifications

## Power Specifications

Maximum average power per channel	(1 kHz at 0.1% THD) Stereo, both channels driven: 900 watts into 2 ohms Stereo, both channels driven: 780 watts into 4 ohms Stereo, both channels driven: 520 watts into 8 ohms Bridge-Mono: 1850 watts into 4 ohms Bridge-Mono: 1540 watts into 8 ohms Parallel-Mono, both channels driven: 780 watts into 4 ohms Parallel-Mono, both channels driven: 520 watts into 8 ohms
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## Performance Data

Frequency Response	+0dB/-0.3dB from 20 Hz to 20 kHz at 1 watt
Phase Response	+/-0.1 degrees from 10 Hz to 20 kHz at 1 watt
Signal to Noise Ratio	A-weighted, better than 108dB below full rated power Better than 105dB below full rated power from 20 Hz to 20 kHz
Total Harmonic distortion(THD)	Less than 0.05% at full rated power from 20 Hz to 1 kHz, increasing linearly to 0.1% at 20 kHz
Intermodulation Distortion(IMD)	Less than 0.1% from less than 158 milliwatts to full rated power
Damping Factor	Greater than 400 @ 1 kHz/8 ohms
Crosstalk	Greater than 70dB below full rated power from 50 Hz to 2 kHz, rising linearly to greater than 60dB at 20 kHz
Common Mode Rejection(CMR)	Better than 80dB below full rated power from 20 kHz 1kHz, failing linearly to better than 50dB at 20 kHz
Controlled Slew Rate	Greater than 100 volts per microsecond

## Controls

Power ON/OFF	A front panel rocker switch used to turn amplifier on and off
Level	A front panel rotary potentiometer for each channel used to control the output level
Stereo/Bridge Mono/Parallel Mono Mode	A three position back panel switch used to select mode of operation of amplifier

## Indicators

Ready/Protect	Two colored LED indicator shows the state of output protection relay Green when amp is working normally, red when protection is activated
Signal	An illuminated LED indicates an audio signal presence at the channel's output
Limiter	Lights up when internal limiter is activated to maintain signal distortion under 0.5%
Temperature Controlled Limiter	Lights up to indicate signal limiting as a result of heat sink temperature above 80 degrees C Indicates compromised ventilation of the amplifier

## Input/Output Data

Input Connector	A balanced three-pin female XLR connector for each channel
Input Impedance	Nominally 20K ohms balanced, and 10K ohms unbalanced
Output Connector	A set of color-coded 5-way binding posts for each channel ( for banana plugs, spade lugs or bare wire) Less than 10 milliohms in series with less than 2 micro henries

Output Impedance

Draws 90 watts or less at idle. Draws up to 5 amps of current

## AC Mains Requirements

Available in 110-120V/60 Hz and 220-230V/50 Hz

## Output signal Modes

Stereo	Balanced, two channels
Bridge-Mono	Balanced, single-channel. Channel 1 input is active; both channel volume controls are active
Parallel-Mono	Balanced, single-channel. Channel 1 input is active; both channel volume controls are active

## Construction

Chassis	Durable black finish on steel chassis
Cooling	Rear to front flow-through ventilation. Internal heat sinks and two 80 mm(3.15 in) high-speed, low-noise, cooling fans with auto speed control. Forced air cooling for rapid, uniform heat dissipation
Approximate weight	49 lbs.(22.3 kg)
Mounting	Standard 19 inch rack mounting (EIA RS-310-B 0, 2 Unit Rack Space)

## Shipping Information

Packing	Heavy duty dual cardboard boxes
Shipping Dimensions	22 in(56cm) width, 6.3 in(16cm) height, 20.87 in(53cm) depth
Approximate shipping weight	52.8 lbs.(24 kg)

LAX Sonic Solution's designs are based on the principle that there should be no compromise when it comes to manufacturing products for the demanding professional arena. LAX quality is evident in the smooth, solid feel of the controls; the clean, elegant design of the faceplate and in the ease of product operation. To ensure ultimate reliability, quality control inspections are present at every step of the manufacturing process in order to guarantee quality performance; even under the most extreme operating conditions. All LAX amplifiers, enhancers, crossovers, and stereo gate/comp./limiter are covered by the LAX Sonic Solution exclusive **Three Year Warranty**.

## LAX SONIC SOLUTION

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