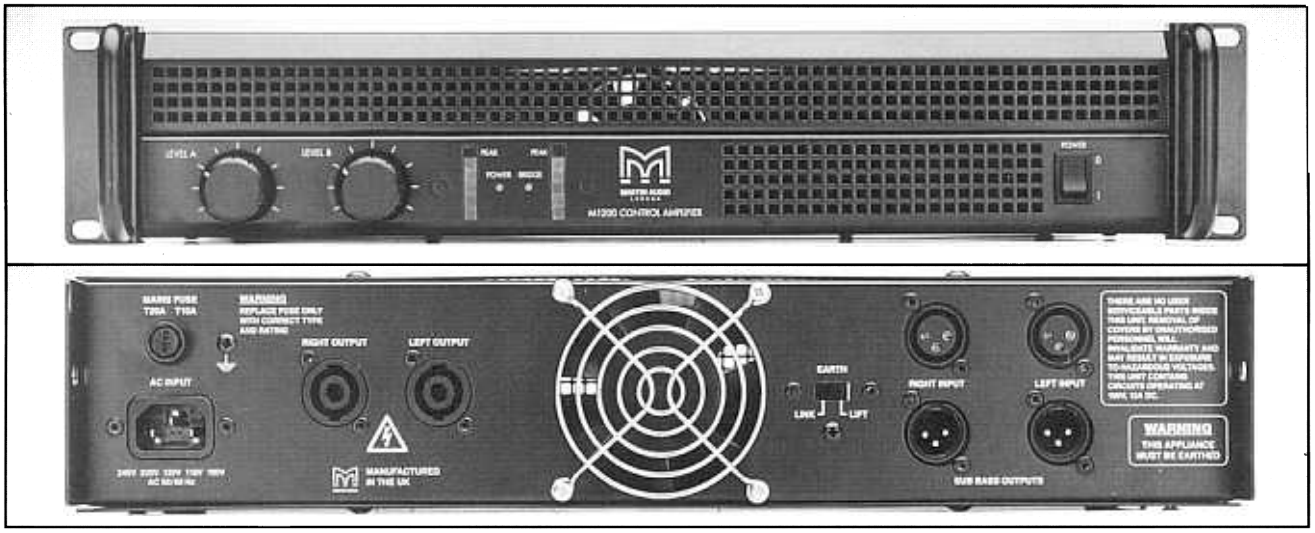
MARTIN AUDIO
LONDON

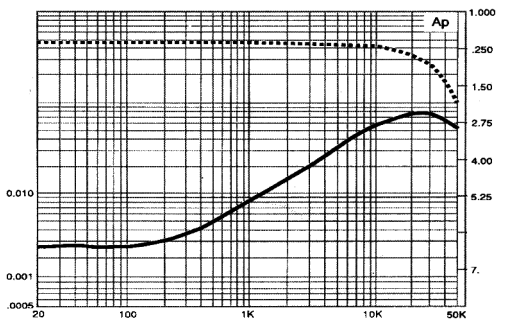
M SERIES AMPLIFIERS

M800 / M1200

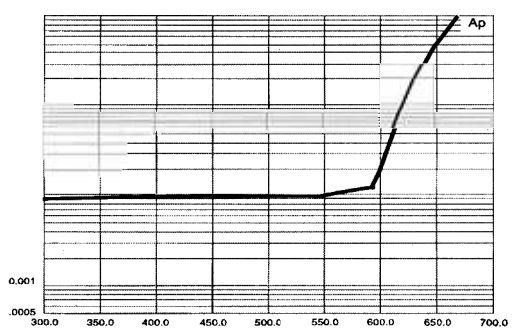


The M Series is comprised of two high performance stereo amplifiers which have been developed to provide optimum long-term performance, operational reliability and sonic quality from a tough and compact amplifier package just 2U high.

The M Series products are specified and constructed to be fully performance compatible with all other industry standard and pro audio equipment.



The Above graph shows THD+N and Output level vs. frequency at 550W into 4 0hm load



The above graph shows THD+N vs. Output power at 1kHz into 4 Ohm load.

FEATURES

Overall sonic quality and stability enhanced by 'audiophile grade' circuit topologies.

Compact 2U height and very efficient forced cooling make for economical and safe racking of high density multiples.

Rugged steel chassis for long term durability in 'real world' operation.

In-built protection of amplifier and speaker loads against faults and misuse.

Optional dedicated plug-in cards facility

ARCHITECT'S AND ENGINEER'S SPECIFICATION

The amplifier shall have two channels each capable of producing an output of (Note 1) watts continuous average power into a (Note 1) ohm load with both channels driven. Each input shall be electronically balanced, shall have a CMRR of greater than 50dB at any frequency between 20Hz to 20kHz, and shall incorporate effective filtration against RF and DC. Full output shall be achieved by an input signal of not more than 1.4V RMS per channel. Each channel shall have a +0 -3dB frequency response from 2Hz to 125kHz from 1 watt into 4 ohms to full related power, and shall exhibit distortion of no more than 0.02% at 1kHz into 4 ohms. Hum and noise shall be at least 100dB below full rated output power measured 20Hz to 20kHz with 600 ohm input termination, and channel separation shall be greater than 70dB at 1kHz.

The amplifier shall be stable into any load configuration with any combination of open or grounded input connection, and shall protect itself and its loudspeaker loads against mismatch, short or open circuits, or any failure which may cause DC offset voltages to appear at its outputs.

Muting circuitry shall automatically disconnect loudspeaker loads via relays during power ups and power down, and a self-resetting thermal sensing and shutdown system shall be incorporated to protect power transistors against overtemperature operation. A forced cooling fan shall be provided. Each amplifier channel shall have a rotary level control accessible from the front panel and carry a signal clip indicator. LED's shall be provided to indicate the status of AC power, output levels and bridged mode. A rear panel mounted switch shall be provided to safely isolate signal ground from chassis and AC grounds. An internally mounted switch shall be provided to reconfigure the amplifier from stereo to bridge mode. Optional dedicated control cards shall be easily installed internally for certain Martin Audio loudspeaker systems. Audio input shall be via XLR connectors, and outputs on Speakon connectors. The amplifier shall be capable of bridged mode operation thereby providing up to (Note 1) into (Note 1) ohms and supplying a 70 volt distribution system without output matching transformers. The amplifier shall be capable of operation from a 200/240 volt 30Hz AC power source, and shall be 4 rack unit (3.5") high.
The published specification shall be met or exceeded.
The amplifier shall be a Martin Audio M800/M1200.

SPECIFICATIONS AND PERFORMANCE

NOTE 1: **OUTPUT POWER**

	BOTH CHANNELS DRIVEN			BRIDGED
	4 Ohm	8 Ohm	16 Ohm	8 Ohm
M800	400	260	130	800
M1200	600	400	200	1200

	M1200	M800
Inputs		
Type	Electronically balanced	
Impedance (Balanced)	20k	20k
Com. Mode Rejection	< -50dB @ 20kHz	
Input Sensitivity	+ 4dBu	
Gain	32dB	30dB
Outputs		
Impedance @ 1kHz	<32m ohms	
Slew Rate	30V/usec	25V/usec
Rise time	3usec	
DC-offset	< +/- 50mV	
Performance		
Power bandwidth	10Hz - 50kHz	
Frequency response	2Hz - 125kHz - 3dB	
THD @ rated output (20Hz - 20kHz)	<0.06%	
Hum and noise	-100dB	
Channel separation @ 1kHz	-70dB	
Damping factor @ 1kHz/8 ohms	>250	

	M1200	M800
Weight		
Nett	15kg (33 lbs)	14kg (31 lbs)
Shipping	19kg (42 lbs)	18kg (40 lbs)
Dimensions		
Width	482mm (19")	
Depth	427mm (16.8")	
Height	88mm (3.5")	
Terminations		
Inputs	XLR (female)	
Outputs	Speakon	
Power	3 Pin IEC Connector	
Voltage Requirements	220/240V AC +/- 20% 50Hz *110v available	

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice.
Martin Audio is committed to refining the state of the art sound reinforcement combining in-depth product and field applications research with advanced manufacturing techniques.
Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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