



A Series

Amplifier



User Manual



An equilateral triangle enclosing a lightening flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
 2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool.etc).
 3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
 4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
 5. The product should be positioned so that proper ventilation is maintained.
 6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
 7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
 8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged in to the outlet when not being used for a long period of time.
 9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
 10. The product should be serviced by qualified service personnel if:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen into, or liquid has been spilled onto the product.
 - C. The product has been exposed to rain.
 - D. The product does not appear to operate normally or exhibits a marked change in performance.
 - E. The product has been dropped, or the enclosure damaged.
 11. Do not attempt to service the product beyond what is described in the user maintenance instructions.
- All other servicing should be referred to qualified service personnel.

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4 Before you start

Congratulations on your choice of stereo power amplifiers - you have purchased one of the finest stereo amplifiers on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new **A Series** has superior performance and greater flexibility than any other amplifiers in its price range. Please read this manual carefully to get the most out of your new unit. Thanks for selecting **A Series** as your choice in stereo power amplifiers.

What's in the box?

Items that are included in the box:

- A Series amplifier
- Instruction manual
- Power cable

Features

- Full operating features: volume controls; balanced phoenix connectors, screw terminal speaker connectors, stereo/bridge mode.
- Full safety/reliability features: 2 variable speed fans for cooling; DC and thermal overload protection; short circuit and speaker protection.
- Power ON, Clip, Signal, and Protect LED indicators for each channel.
- Roadworthy, rugged double rack space (1 U) housing -115VAC 60Hz, -230VAC 50Hz select switch and IEC.

Hints on Installation

To ensure years of enjoyment from your **A Series**, please read and understand this manual thoroughly before using the unit.

INSPECTION

Your **A Series** was carefully packed at the factory in packaging designed to protect the units in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

*(Note: **A Series** is not responsible for shipping damage. Remove if the unit is damaged, do not return to us, but notify your dealer and the shipping company immediately to make a claim. Such claims must be made by the consignee in a timely manner.)*

RACK MOUNTING

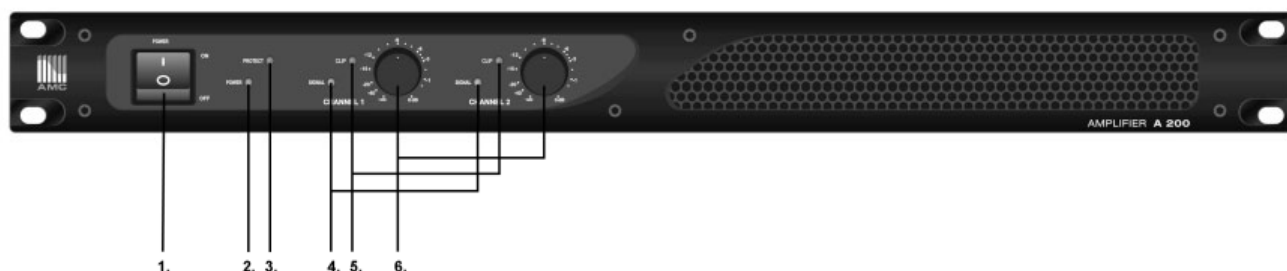
The **A Series** amplifiers are designed for standard 19" rack mounting as well as "stack" mounting without a cabinet. Use 4 screws and washers for mounting to the front rack rails. It is also a good idea to support the amps also in the rear, especially for mobile use where the amps will be subjected to shocks.

AMPLIFIER COOLING

Also pay close attention to the cooling requirements. Never block the air vents in the back, side and front of the amplifier if the load seen by amplifier is less than 4 ohms and the amplifier is being run at high output levels. For best results, in such high output power applications you should augment the amplifier's air flow with a rack cooling system.

5 Controls and connections

Front Panel



1. POWER SWITCH

To turn the unit ON or OFF, press the upper or bottom portion of this button. Before turning on the amplifier, check all connections and turn down the level controls. A momentary muting is normal when turning the amplifier on or off.

(Caution: Always turn on your power amplifier last, after all your other connected equipment, and always turn off your power amplifier before your other connected equipment.)

2. POWER LED INDICATORS

These LEDs illuminate when the power is turned "ON".

3. PROTECT LED INDICATORS

These LEDs illuminate if the power amplifier's output connection is shorted or the load impedance is too low. When either of these LEDs is lit up, turn OFF the power and check the output's connection to verify that it is correct, then turn ON the power again.

4. SIGNAL LED INDICATORS

These LEDs illuminate to confirm the presence of an input signal greater than 100 mV at that channel of the amplifier.

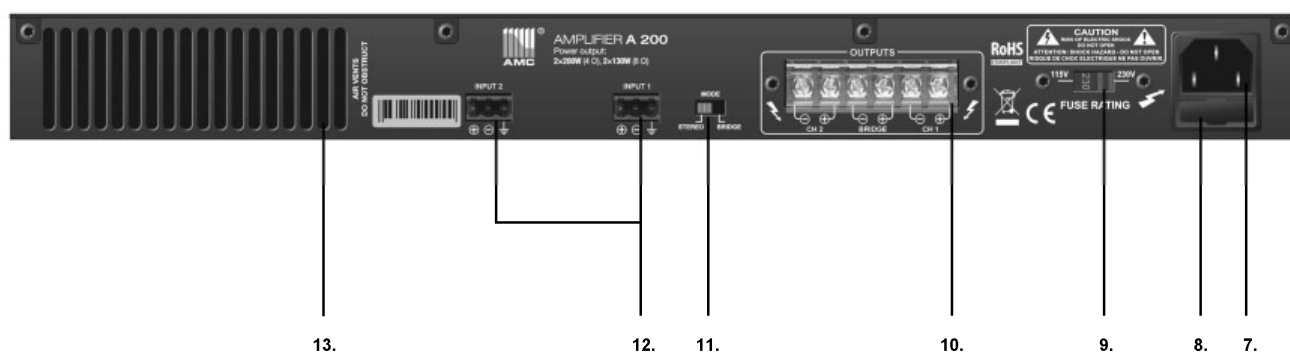
5. CLIP LED INDICATORS

These LEDs illuminate if any section of the power amplifier's output are within 3dB of clipping. Occasional blinking of the LEDs are acceptable, but if they remain on more than intermittently you should turn down either the power amplifier's level controls or reduce the output level of the preceding component to avoid audible distortion.

6. LEVEL CONTROLS

These control the level of signal coming into each channel. The actual voltage gain of the amplifier is shown in dB. Turn these controls counter clockwise if the peak LEDs illuminate steadily (indicating too strong an input signal).

Rear Panel



7. POWER CONNECTOR

The cord connector is used to connect the AC power source to your power amplifier. (CAUTION: DO NOT REMOVE THE CENTER GROUNDING PIN.)

8. FUSES

Fuse holders for T2A-6.3A/250V fuses. If these fuses continuously blow, shut off the unit and have it serviced by qualified service personnel.

9. AC VOLTAGE SELECTOR SWITCH

Before plugging in the power cord, check to see that the unit is set for the proper voltage for your area: ~115V (60Hz) or 230V (50Hz).

10. OUTPUT CONNECTORS

Connect to your speakerbox.

11. MODE SELECTOR

This button allows select the stereo or bridge configuration. If bridge mode is selected, the minimum loudspeakers impedance should be no less than 8Ω.

12. INPUT CONNECTORS

Connect your input signal to these balanced phoenix connectors.

13. FANS

The fan speed is varied continuously and automatically to maintain the proper internal operating temperature.

Specifications

	A100	A200
4Ω / EIA 1 kHz / 0.1% THD (Stereo mode)	100W	200W
8Ω / EIA 1 kHz / 0.1% THD (Stereo mode)	70W	130W
8Ω / EIA 1 kHz / 0.1% THD (Bridge mode)	200W	400W
Input Sensitivity	0.775 Vrms (0 dBu)	
Input Impedance	10kΩ unbalanced	
Frequency Response	25 Hz - 25 kHz: ±1 dB 5 Hz - 50 kHz: ±3 dB	
Distortion (SMPTE-IM)	< 0.03%	
Signal to Noise Ratio (20 Hz - 20 kHz) 8Ω	> -100 dB	
Damping Factor (1 kHz and below)	> 400 at 8Ω	
General specifications		
Amplifier Protection	Full short circuit, open circuit, thermal. Stable into reactive or mismatched loads	
Load Protection	Turn-on/off muting, current limiter	
Controls	Front: AC switch, channel 1 & 2 volume knobs	
Indicators	Power-on: Blue LED / Signal: Green LED (1 per channel) / Clip: Red LED (1 per channel) Protect: Red LED	
Connectors (each channel)	Input: balanced Phoenix	
	Output: Screw terminals	
Power Requirements	Selectable: 115V AC 60Hz / 230V AC 50Hz	
Fuses	AC115V:T4A/250V AC230V:T2A/250V	AC115V:T10A/250V AC230V:T5A/250V
Dimensions (HxWxD)	45x482x320mm (1.73"x19.0"x12.6")	
Weight - Net	8.0 kg	8.3 kg

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

