



AMP 100

Home Audio Multi-Zone Stereo Power Amplifier

FEATURES:

Line 1 / Line 2 priority input switching

Line 2 auxiliary output

Speaker A/B switching

Front panel Balance and Volume controls

Signal sensing "Power On"

Congratulations on your purchase of the AudioSource® AMP 100. Please take a few moments to read this entire manual, and be sure to retain this document for future reference. Please read and observe all safety instructions detailed on page 2.

NOTE: If any part of this product is damaged or missing, please call your dealer or AudioSource® directly at 1.877.715.5439 or 503.914.4688.

Please read your warranty and retain your receipt and original carton for possible future use.

For more information about AudioSource® electronics, speakers and accessories please visit www.audiosource.net

SPECIFICATIONS

Stereo (8 ohm): 50W per channel, 20Hz ~ 20kHz, <1% THD+N
60W per channel, 1kHz, <1% THD+N

Stereo (4 ohm): 60W per channel, 20Hz ~ 20kHz, <1% THD+N
75W per channel, 1kHz, <1% THD+N

Bridged Mono (8 ohm): 160W, 1kHz, <1% THD+N

Frequency Response: 10Hz ~ 30kHz, +0dB/ -3dB

Signal to Noise Ratio: 100dBA below 50W output into 8 ohms

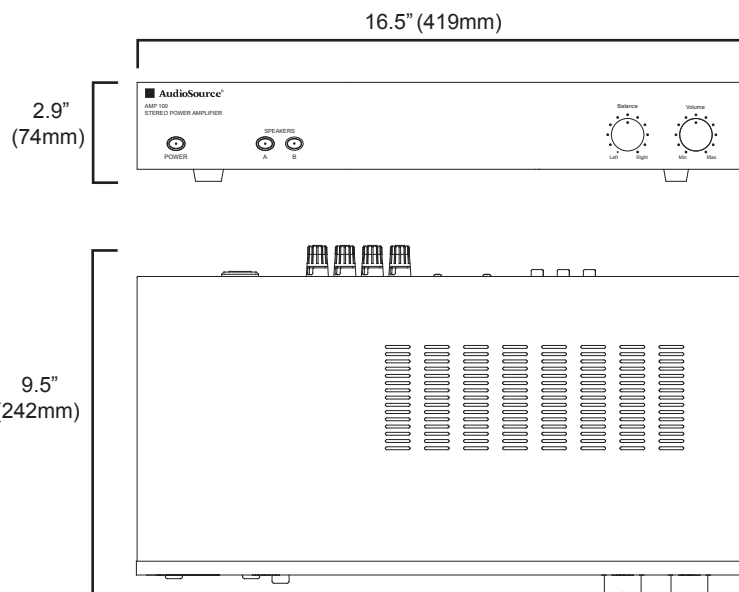
Channel Separation: 65dB @ 1kHz, referred to 50W output into 8 ohms

Input Sensitivity: 900mV input for rated 50W output into 8 ohms

AC Power Consumption: 500W maximum

Net Weight: 9.6lbs / 4.4kgs

Gross Weight: 10.8lbs / 4.9kgs





CAUTION

**RISK OF ELECTRICAL SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL!

EXPLANATION OF SAFETY SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

IMPORTANT SAFETY INSTRUCTIONS

- **WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL NOT BE PLACED ON APPARATUS.**
- **WARNING: TO PREVENT FIRE OF SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**
- **WARNING: THE MAINS PLUG IS USED AS DISCONNECT DEVICE. THE DISCONNECT DEVICE SHALL REMAIN READILY AVAILABLE.**
- **WARNING: ONLY USE ATTACHMENTS OR ACCESSORIES SPECIFIED OR PROVIDED BY THE MANUFACTURER.**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains etc. Install in accordance with the manufacturer's instructions.
8. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. No open flame sources, such as lighted candles, should be placed on the apparatus.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point of exit from the apparatus.
11. Unplug the apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. The apparatus should be connected to a mains socket outlet with a protective earthing connection.

MAGNETIC FIELD: !!CAUTION!! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field, which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit. If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

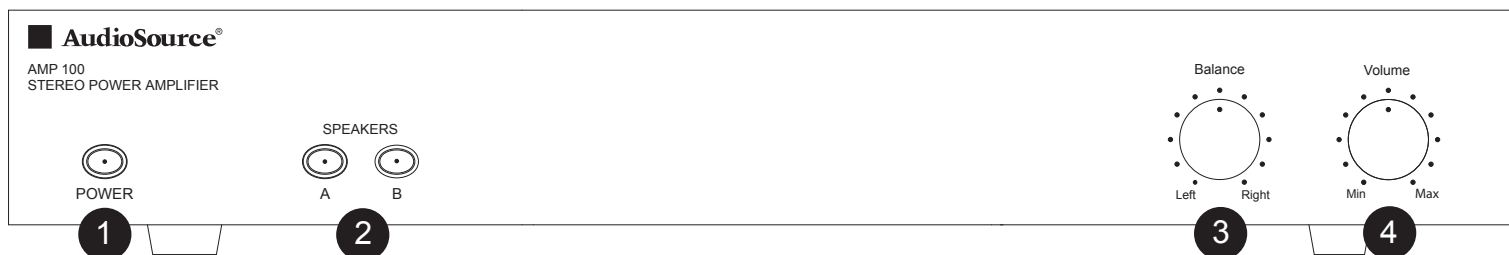


Figure 1. Front Panel

FRONT PANEL CONTROLS

1. **Power Switch**
Switches the AMP100 on or off. A red LED indicates connection to AC power while in standby mode. Turns green indicating audio signal is present.
2. **Speaker Selector**
Selects speaker zone A or B. For A + B zones push both buttons in.

3. **Balance**
Fades speaker output between the Right and Left Channels
4. **Volume**
Adjusts amplifier volume.

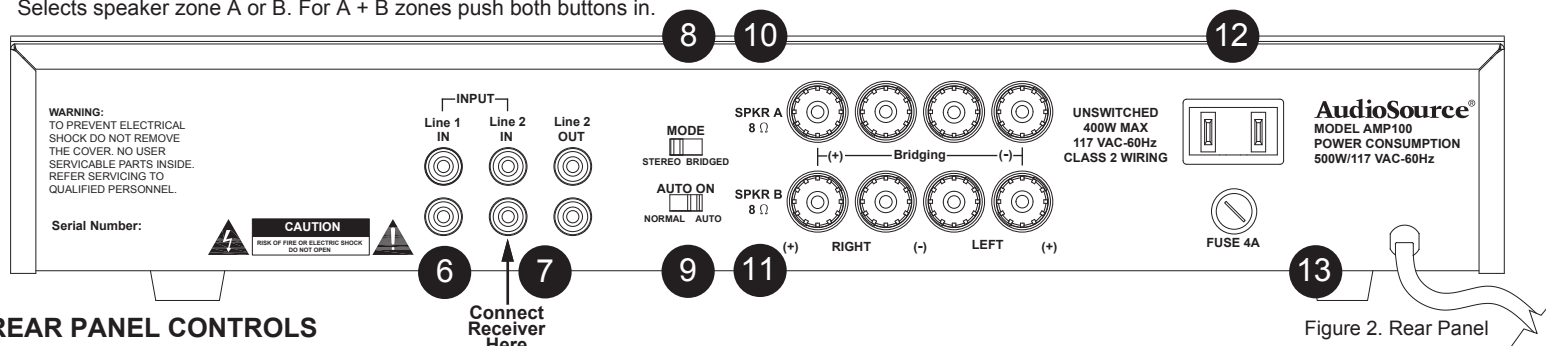


Figure 2. Rear Panel

REAR PANEL CONTROLS

6. **Line 1 Input**
This is the secondary input, use Line 2 IN for your main input. Line 1 IN can be used if a second source is desired and takes over when signal is present and has at least a 5mV level. When there is no signal, or a signal with less than 5mV level, the amp switches back to Line 2 IN after a brief delay.
7. **Line 2 Input/Output**
Line 2 IN should be used as the "primary" or main input for the amplifier. Connect your receiver or main source to this input. Use Line 2 OUT to pass Line 2 IN signal to another amplifier.
8. **Mode Select Switch**
Switches the amplifier from Stereo mode to Bridged mode.

STEREO MODE

If you will be connecting one or two pair of speakers to the amplifier, place the switch in the "Stereo" position. NOTE: For playing 2 pairs of speakers (A plus B), make sure each speaker has an impedance of 8 ohms or greater.

BRIDGED MODE

When set to "Bridged" mode, the amplifier is a single channel mono amplifier.

BRIDGED MODE- MONO APPLICATION

For bridged mode, playing Right and Left together as mono output, use a Y cable adapter to connect Right and Left RCA signal to the Right (red) input at Line 2 IN. Set the MODE switch to BRIDGED and follow the instructions for bridged speaker connection in the SPEAKER TERMINALS section of this manual.

NOTE: The AMP 100 supplies 150W in bridged mode, Please verify that your speakers are capable of handling such power to avoid possible damage!

BRIDGED MODE- STEREO SOUND USING TWO MONO AMP 100

To play separate Right and Left channel signals with a pair of mono amplifiers, connect to the source using the Right (red) RCA jacks at Line 2 IN. Connect the Left RCA cable end to one amp, and the Right RCA cable to the other. Set both MODE switches to BRIDGED, and follow the instructions for bridged speaker connection.

9. **AUTO ON Select Switch**

Power can be turned on and off manually via the switch on the front panel or automatically by signal sensing. Set it to NORMAL for manual power on/off. Set to AUTO for signal sensing; the amp will turn on when audio signal is detected at the inputs. NOTE: The front panel power switch must be in the ON position (pushed in) for the AUTO ON feature to operate.

10. **Speaker Zone A Output**
Speaker output terminals for zone A. Minimum impedance: 8 ohm bridged or 4 ohm stereo.
11. **Speaker Zone B Output**
Speaker output terminals for zone B. Minimum impedance: 8 ohm bridged or 4 ohm stereo.

SPEAKER TERMINALS - STEREO MODE

For stereo output connect the speaker's positive (red) terminal to the amplifier's positive (red) terminal, and the speaker's negative (black) terminal to the amplifier's negative (black) terminal for each Right and Left speaker.

NOTE: To prevent sonic degradation in your speaker installation, total speaker wire resistance should be kept below 0.5 ohms. This table lists recommended speaker wire gauge versus wire run length.

50' or less - 16 Gauge 2-Cond. CL3 Rated
50' - 150' - 12 Gauge 2-Cond. CL3 Rated
150' - 200' - 10 Gauge 2-Cond. CL3 Rated

SPEAKER TERMINALS - BRIDGED MODE

Place the "MODE" switch in the "BRIDGED" position and use both red terminals to connect to the speaker. Connect the speaker's negative (black) terminal to the amplifier's left channel positive (red) terminal, and the speaker's positive (red) terminal to the amplifier's right channel positive (red) terminal.

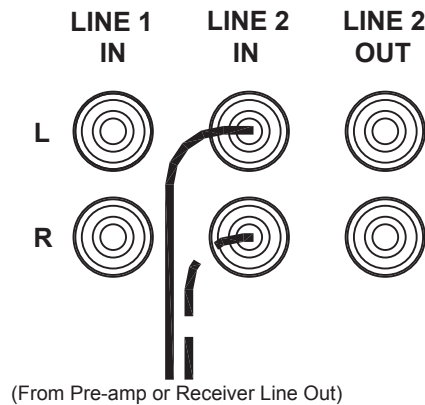
NOTE: Only one zone (A or B) can be bridged. Do not attempt to bridge both A and B speaker terminals! This may result in a lower impedance than the amplifier is designed for and may damage your amplifier. The minimum impedance for the total load connected in bridged mode is 8 ohms.

12. **Unswitched A/C Terminal**
Provides A/C power for additional components. Use only for a single low power device such as a tuner, CD, DVD, turnable or other non-amplified electronics. Do not connect another amplifier or receiver. Ensure 400W max power consumption for any device plugged in here.
13. **Power Cord & Fuse Holder**
This amplifier is configured for operation at 115V. (North America) A fuse in the integrated holder provides safety protection from fault conditions. Replace fuse with 5 x 20mm T4A 250V.

APPLICATIONS

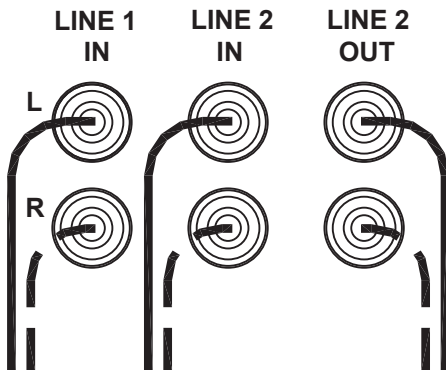
STEREO SETUP

In this configuration, the mode switch is set to "Stereo". Connect the line out jacks from a stereo pre-amplifier or source to the Line 2 input jacks of your AMP 100. Next connect your speakers to the terminals marked "Speaker A" observing proper polarity. Select the "A" speakers using the front panel zone selection buttons. Connect a second (optional) pair of speakers to the terminals marked "Speaker B". If you are connecting 4 speakers to the AMP 100 they must be 8 ohm speakers only. Press A and B together to use both zones. Press A and B together to use both zones.



SETUP FOR MULTIPLE SOURCE

In the multiple source set up, a distributed audio system is connected to the AMP 100 as a local zone amplifier via the Line 2 inputs. Normally the distributed audio system will be the audio source for the AMP 100. The distributed audio is then passed on to be used by additional zones or sub zones in the distributed system via the Line 2 outputs.



(From Local Source Line Out) (From Pre-amp Line Out) (Out to Additional Zones)

The audio output of a local source, such as an MP3 Player, CD, television, computer, etc., is connected to the AMP 100 via the Line 1 inputs, and whenever the local source is active its signal will take priority over the distributed audio signal present at Line 2. However, the distributed audio signal will still be present at the Line 2 input. In this circumstance the audio output of the local source will be heard via the AMP 100. Once the local source is turned off or muted, the AMP 100 will automatically switch back to the distributed audio system as an audio source, assuming the local source remains inactive. There is a delay of up to 4 seconds when switching from Line 1 back to Line 2 inputs.

Limited Warranty

AudioSource® warrants its amplifier products against defects in materials and workmanship for a limited period of time. For a period of two years from date of original purchase, we will repair or replace the product, at our option, without charge for parts and labor. Customer must pay all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase.

This limited warranty applies only to purchases from authorized AudioSource® electronics retailers. This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States.

Consumers are required to provide a copy of the original sales invoice from an authorized AudioSource® dealer when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than AudioSource®, or damage that is attributable to Acts of God. It does not cover costs of transportation to AudioSource® or damage in transit. The customer should return his defective product, freight prepaid and insured, to AudioSource® only after receiving a Return Authorization.

This warranty will become void if the serial number identification has been wholly or partially removed, altered or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. Under no circumstances shall AudioSource® be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.