

AA60

Strategy Series Mixer Amplifier



AA60



AA60
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Specifications

Power Rating	60 Watts RMS @ 70.7V (Maximum Average Power @ 50Hz to 20kHz with .5% THD)
Inputs	Input #1 Mic/Line/Tel (Optional Transformer Available) Inputs #2-3 Unbalanced RCA Summing Line Level
Outputs	Main: 60 Watts RMS 8Ω, 25V, and 70.7V Zone 2: 8Ω at 1.5 Watts & 600Ω line level at 1.5V
Power Consumption	90 Watts
Height	3.66" (94mm)
Width	8.27" (210mm)
Depth	10.87" (276mm)
Weight	10.2lbs (4.64kg)

Features

- 1 Mic/Line In w/ Phantom Power
- 2 Stereo Line Inputs
- Dual Line Out
- Pre Out / Power In Patch
- Remote and VOX Activated Mute
- Route Any Source Combination or Entire Mix Bus to Zone 2 (MOH Out)
- Special Low Cut Filter is 6dB/Octave at 400Hz and Also Bypasses Front Panel Bass Control to Allow Use with Paging Horns Like the Atlas Sound APX40TN and AP-15T

General Description

The Atlas Sound AA60 is a 3 input channel mixer amplifier designed for distributed business paging and background music (BGM) systems, small to medium speech privacy systems, and in applications where music on hold (MOH) plus paging is required.

With (1) mic/line input and (2) stereo line inputs, the AA60 will accommodate a variety of input sources including paging microphones, CD players, and digital music receivers. A dip switch selectable matrix allows the creation of a Zone 2 mix from any or all of the input sources for music or messaging on hold applications. 25V, 70.7V, and 8Ω outputs are provided.

The output power of 60 Watts will match nicely with Atlas Sound FAP, SM, SD, and GD series loudspeakers. In fact, in an 11' ceiling application, the AA60 will provide power for up to 200 SD72W loudspeakers tapped at .25 Watts each while providing upwards of 84dB in the direct sound field at ear height!

Architect & Engineer Specifications

The mixer/amplifier shall control and mix up to three input signals and deliver an audio output of 60W into 8Ω, 25V, and 70V. The amplifier output shall be transformer isolated with a frequency response of 50Hz to 20kHz (-3dB) with less than 0.5% THD at rated output. The output regulation shall be less than 2dB, no load to full load. It shall be capable of operation from a 110/120 VAC 50/60Hz line. The mixer/amplifier shall be convection cooled. The amplifier shall have thermal and short circuit protection.

The mixer/amplifier shall have a switch- selectable MIC/TEL balanced input to accept either low impedance microphone or Tel/Line Level signals with -60/-10dBv sensitivity. The MIC/TEL input shall include a Phoenix (Euro Block) type connector. The MIC/TEL input impedance shall be 600Ω. The MIC/TEL input shall include an auto mute (VOX Mute) sensitivity control for Input 1. The MUTE SENSE control will allow threshold adjustment of mute activation. The mixer/amplifier shall include two stereo summing auxiliary inputs, unbalanced, -10dBv, with dual-RCA jacks. The Auxiliary input impedance shall each be 10kΩ. The mixer/amplifier shall include two Zone 2 outputs, a 1W at 8Ω output and transformer isolated 600Ω output with a maximum level of 1.5V RMS. The mixer/amplifier Zone 2 output shall be assignable from any of the 3 inputs via the rear panel dipswitch. The Zone 2 output shall have one rear panel mounted rotary level control for both outputs. The mixer/amplifier shall incorporate rear panel terminals via Phoenix connector for the REMOTE MUTE function, controlled by an external switch closure. A rear panel dipswitch shall allow assignment of Input 2 and/or Input 3 to respond to the mute function activation. The Mute assignment shall not affect the Zone 2 output.

The mixer/amplifier shall have a Pre-Out RCA unbalanced output. The Pre Out shall be POST Tone and the Low Cut Filter. The mixer/ amplifier shall have a Power Amp input for use with an external signal processor. The mixer/amplifier shall have a Line A and B RCA unbalanced output. The Line outputs are POST tone controls, Low Cut Filter and Power Amp In. Both the Line and Pre Outputs shall be calibrated to 0dBv and equal 1V RMS out. The mixer/amplifier shall have a 400Hz 6dB per octave low cut filter. The filter can be defeated via the dipswitch located on the rear panel. When engaged the Bass Tone control is bypassed.

The AA60 front panel shall include Inputs 1, 2, and 3 volume controls. System Signal, Peak and Power LEDs shall also be incorporated. The mixer/ amplifier front panel shall also include Bass and Treble tone controls (100Hz and 10kHz, ±10dB). The tone controls shall not affect the Zone 2 output. The mixer/amplifier front panel shall include an AC Mains power switch.

A rear panel AC receptacle (unswitched) shall be included for connection of external equipment.

Dimensions (W x H x D) shall be 8.27" x 3.66" x 10.87" (210mm x 276mm x 93mm) with feet or 3.48" (88.4mm) H without feet. Net weight shall be 12.83lbs. (5.82kg). Front panel finish and material shall be black ABS resin and case finish (and material) shall be black powder coated sheet steel.

The mixer/amplifier shall be Atlas Sound Model AA60. The optional rack-mount bracket kit shall be an Atlas Sound AARMK2-5. The optional input transformer shall be an Atlas Sound AAIT-600. The optional level control security covers shall be an Atlas Sound AAVCC-5.



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AA60 Specifications

Power Output

Max. Average Power @ 50Hz-20kHz with .5% THD (10-80kHz filter)

8Ω, 1kHz, 0.5% THD 60W RMS

Transformer Outputs

25V 60W RMS

70.7V 60W RMS

8Ω 60W RMS

Frequency Response

50Hz-20kHz

THD+N

.5% or less, at 1kHz, rated output

.1% or less, at 1kHz, 5W output

Sensitivity

Input 1 Mic .316 ~ 3.16mV (-50 ~ -30dBV)

Input 1 Telephone/Line 316mV (-10dBV) 10kΩ (optional 600Ω transformer available)

Input 2/3 316mV (10dBV) 10kΩ

Outputs

Main: Transformer coupled, balanced, 8Ω, 25V, and 70.7V

Zone 2: 8Ω Unbalanced 1W

Zone 2: 600Ω Balanced 1.5V

Output Regulation

Less than 2dB, no load to full load

Signal To Noise Ratio

Mic >55dB

Line >55dB

Telephone >55dB

Input 2/3 >75dB

Tone Controls

Bass ±10dB @ 100Hz

Treble ±10dB @ 10kHz

Indicators

Power, signal, peak

Power Consumption

Idle .15A, 11.2W, 20BTU / Average .47A, 46W, 155BTU / Max 1.41A, 137W, 467BTU

Dimensions

8.27" x 3.66" x 10.87" (210mm x 94mm x 276mm)

Weight

12.83 lbs (5.82kg)