

General Purpose Amplifiers

Models GA2 & GA6A



Features

GA2

- 1.5-watt utility amplifier
 - 1 input: AUX (Hi-Z)
 - 8-ohm or 600-ohm outputs
 - 200 Hz to 15 kHz frequency response
 - 50mV sensitivity
 - Volume control
 - 120V AC operation
 - 4W power consumption
 - 5-1/2 ft. AC power cord included
 - Wall-mountable design
- Listed to UL Standard 60065 for U.S. and Canada

GA6A

- 6-watt utility amplifier
- 2 inputs: 1 MIC (Lo-Z), 1 AUX (Hi-Z)
- 8-ohm, 25V, or 70V outputs
- 30 Hz to 12 kHz frequency response
- Sensitivity: 0.3 mV, MIC; 0.2V, AUX
- Internal Thermostat
- Adjustable tone control
- 16W power consumption
- Listed to UL Standard 60065 for U.S. and Canada

Description

GA2

Bogen Model GA2 is a rugged, compact 1.5-watt amplifier designed to meet the requirements of continuous low-power audio applications. It is ideally suited for telephone line "music-on-hold" amplification. It can also be used to drive monitor speakers, headphones, or as a line amplifier. With accessory transformer Model WMT1A connected to the input, the GA2 will provide amplification for a 600-ohm telephone line.

Model GA2 has a high-impedance input that is available at both a phono jack and screw terminals. Only 50 mV is required for full output. A choice of 8-ohm or 600-ohm output is provided. Low distortion, wide frequency response, and low hum and noise further contribute to excellent performance. A screwdriver-adjustable volume control is provided on the chassis.

The amplifier is compact and easily mounted on a wall or in any convenient location.

GA6A

Bogen Model GA6A is a rugged and compact 6-watt, dual-input amplifier with a wide variety of applications such as background music in a doctor's waiting room, relaying fast-food restaurant orders from counter to kitchen, or sound reinforcement in a small church.

The GA6A delivers rated power at not more than 1% total harmonic distortion from 75 Hz to 15 kHz into matched loads. A low-impedance balanced or unbalanced microphone input and wide-frequency auxiliary input are provided, with built-in mixing and individual front-panel controls. The unit is protected by an internal thermostat.

Output connections are easily made via screw terminals on the rear panel. Tone control can be adjusted on the rear panel, and an illuminated rocker-type front-panel power switch is provided. The chassis is fabricated from sturdy cold-rolled galvanized steel.

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Specifications subject to change without notice.

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Technical Specifications

GA2

Power Output: 1.5 watts RMS
Frequency Response: 200 Hz to 15 kHz
+0 dB, -2.5 dB
Total Harmonic Distortion: 2% @ 1.5W,
0.25% @ 1W
Output Level: +6dBm (1.5V) across balanced
600 ohms
Sensitivity: 50 mV
Input Impedance: 100k ohms
Hum and Noise: -72 dB below rated output
Output Impedance: 8 ohms; 600 ohms balanced
Control: Volume, screwdriver-adjustable
Terminations:
Output — terminal strip
Input — RCA-type phono jack or terminal strip
Power Consumption: 4W, 120V AC, 60 Hz
Dimensions: 5-1/2" W x 4-1/8" H x 2-1/4" D
Product Weight: 2 lb.

GA6A

Power Output: 6 watts RMS
Frequency Response: 30 Hz to 12 kHz +0 dB, -3 dB
Total Harmonic Distortion: 1% @ rated output
Power Bandwidth: 75 Hz to 15 kHz
Inputs: Lo-Z MIC, balanced or unbalanced; AUX
Sensitivity: MIC 0.3 mV; AUX 0.2 V
MIC Dynamic Range: 46 dB
Hum and Noise: MIC -50 dB; AUX -64 dB below
rated output
Output Impedance/Voltage: 8 ohms; 25V & 70V line
Tone Switch: 9 dB treble boost at 10 kHz,
9 dB treble cut at 10 kHz
Protection: Internal Thermostat
Controls: MIC, AUX, illuminated POWER switch
Terminations:
Outputs and Microphone — terminal strip
Auxiliary — RCA-type phono plug
Power Consumption: 16W, 120V AC, 60 Hz
Dimensions: 8-1/2" W x 2-3/4" H x 6" D
Product Weight: 5 lb.

Architect and Engineer Specifications

GA2

The amplifier shall be a Bogen Model GA2, or equivalent, capable of delivering 1.5 watts at 2% THD, and 1 watt at 0.25% THD from 200 Hz to 15 kHz, +0 dB, -2.5 dB, into 8 ohms. It shall provide one high-impedance input with volume control, one 8-ohm output, and one 600-ohm output. Input impedance shall be 100 kilohms. Output level across balanced 600 ohms shall be 8 dBm/2V. Input sensitivity at full output shall be 50 mV or less; hum and noise shall be at least -72 dB below rated output. Inputs shall be via RCA-type phono jack or screw terminal strip. Output shall be via screw terminals.

The unit shall operate from 120VAC, 60 Hz and shall consume 4 watts. The unit shall measure 5-1/2" W x 4-1/8" H x 2-1/4" D. The product weight shall be 2 lb. A 5-1/2-foot AC power cord shall be provided.

GA6A

The amplifier shall be a Bogen Model GA6A, or equivalent, capable of delivering 6 watts at not more than 1% total harmonic distortion from 75 Hz to 15 kHz. Frequency response shall be 30 Hz to 12 kHz, +0 dB, -3 dB. The amplifier shall provide one low-impedance, balanced or unbalanced microphone input and one high-impedance auxiliary input, with individual front panel controls and mixing capability. Microphone dynamic range shall be 46 dB with MIC sensitivity of 0.3 mV. Auxiliary input sensitivity shall be 0.2V or better. Hum and noise shall be -50 dB for microphone, and -64 dB for auxiliary inputs. Tone adjustment shall allow 9 dB treble boost or attenuation at 10 kHz, located on rear panel.

Outputs shall be provided on the rear panel for 8-ohm speaker and 25V and 70V lines. Output and microphone connections shall be made at rear-panel screw terminals; auxiliary input shall be via a rear panel RCA-type phono jack.

The amplifier shall operate from 120VAC, 60 Hz, and shall consume 16 watts. A rocker-type, front panel-mounted switch shall illuminate when the unit is switched on. Overload protection shall be by means of an internal thermostat. The chassis shall be constructed of zinc-plated galvanized steel with protective epoxy, and the cover from black vinyl-clad cold-rolled steel. The front panel shall be finished in black. The unit shall measure 8-1/2" W x 2-3/4" H x 6" D. The product weight shall be 5 pounds.

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