

BOGEN®

Bogen Platinum Series Gen-2 Amplifiers (Models PS120-G2, PS240-G2)



Description

The next generation of Bogen's Platinum Series (PS) Amplifiers delivers the highest audio volume for all speaker types at specified power levels, eliminating the need for an external impedance matching transformer. The Gen-2 Platinum Series amplifiers include an internal impedance matching transformer and a rear-panel selector switch with separate connector blocks for both 8-ohm/25V and 70V speakers. These new models also retain the powerful features of the first-generation PS models, including the 5-band full parametric equalizer (EQ).

Key Benefits

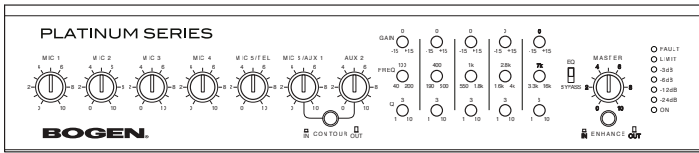
- ✓ **New 8-ohm/25V-70V switch and separate output connector blocks on rear panel** allows the user to easily select the proper amp output for the type of speakers being installed; no longer will you need an external impedance matching transformer for 70V speakers.
- ✓ **Increase design flexibility and enable a wide variety of installation configurations** with a single amplifier, allowing either 8-ohm/25V or 70V operation.

Features

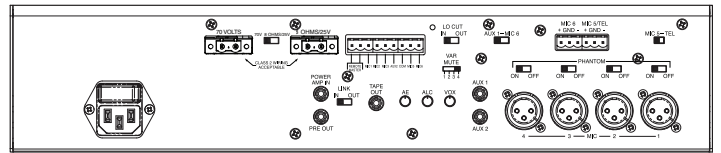
- 120 and 240-watt models
- 4 Dedicated microphone inputs (XLR connectors MIC 1-4) with selectable phantom power
- 1 Selectable MIC 5/TEL input
- 1 Selectable MIC 6/AUX 1 input
- 1 Dedicated AUX 2 input
- 8-ohm/25V or 70V speaker outputs
- 5-band full parametric equalizer with independent Gain, Frequency, and Q controls
- True loudness contour function on AUX 1 and AUX 2
- Audio Enhancement feature for improved voice intelligibility with adjustable level
- Lo-cut filter for all MIC channels
- Remote master volume control capability (using optional GSRVC)

Technical Specifications

Power Rating (RMS):	PS120-G2: 120 watts; PS240-G2: 240 watts
Frequency Response:	20 Hz to 20 kHz, +0/-2 dB @ -2 dB
Distortion:	0.3% (typ.), 20 Hz to 20 kHz
Signal-to-Ratio Noise:	Fundamental: -70 dB or better; AUX 1 & 2: -70 dB; TEL: -70 dB or better @ 600-ohms; MIC 1 through MIC 6: -60 dB or better @ 200 ohms
Inputs/Outputs:	
MIC:	6 Lo-Z balanced via 4 XLR connectors and 2 pluggable screw terminals, Sensitivity: 11 mV (200 ohms)
AUX:	2 Hi-Z RCA jacks. Sensitivity: 0.0 85V (1 0k ohms)
TEL:	Pluggable screw terminals. Sensitivity: 0.07V (600 ohms)
Power Amp In/Pre Out:	In 1 V /Out 1 V via RCA jacks
Tape Output:	700 mV @ Rated Output via RCA jack
Speaker Output:	All models: 8-ohm, 25V/70V
Output Regulation:	Better than 2 dB from no load to full load
AC Input Voltage:	100-240VAC, 50/60 Hz
AC Current:	PS120-G2: 1.55A; PS240-G2: 2.37A
Variable Mute Range:	-60, -21, -10, 0 dB (AUX 1 & AUX 2)
ALC:	Distortion: less than 0.5%; Compression: 25 dB (TEL)
VOX Threshold:	TEL Input 20 mV (VOX control max. CW position)
MIC/AUX/TEL Precedence:	Via pluggable screw terminals. -60 dB: MIC 1, 2, 3, 4, 5/TEL, 6/AUX 1, AUX 2
Power In/Pre Out:	In 1V/Out 1V via RCA jacks
Phantom Power:	13V DC
Lo-Cut:	-3 dB @ 85 Hz
Loudness Contour:	+8 dB @ 100 Hz, +4 dB @ 1 0 kHz (AUX 1 & AUX 2 control at 1 /4 CW position)
Parametric Equalizer:	5-bands with independent GAIN, FREQ and Q controls
Overload Protection:	Electronic with automatic reset
Thermal Protection:	Thermistor attached to heat sink
Dimensions:	16-1/2" W x 3-1/2" H x 13-1/2" D
Shipping Weight:	All Models: 14 lb.



Front Panel



Rear Panel

Applications



Hospitality



Education



Corporate Meeting Rooms



Restaurants



Retail



Houses of Worship

A & E Specifications

Bogen Gen-2 Platinum Series Amplifiers shall be a Model PS240-G2 with a full power rating of 240-watts, or Model PS120-G2 with a full power rating of 120-watts. The amplifier shall provide a frequency response of 20 Hz to 20 kHz, +0/-2 dB at rated power, and shall deliver rated power at less than 0.3% distortion.

The amplifier shall permit paging from telephone and/or microphone. The signal-activated paging channel shall automatically mute background music during a telephone page, eliminating the need for manual activation of switches or the use of external relays. Four switch selectable variable mute levels shall be included to set the mute level of background music during a page. The music level shall return to its normal level after a page. The telephone paging channel shall have a VOX sensitivity adjustment to eliminate transmission of background noise, and Automatic Level Control (ALC) to compensate for varying voice levels and paging techniques of persons using the system. The amplifier shall provide an Audio Enhancement (AE) circuit to improve voice intelligibility. A control shall be provided to set the level of this enhancement effect.

The amplifier shall provide input terminals for a 600-ohm telephone line and Lo-Z balanced microphones. A choice of XLR, RCA jack, or pluggable screw terminals shall be provided for the mic and/or music sources. Phantom power shall be available when necessary for use with condenser microphones on the XLR MIC inputs.

The amplifier shall provide Preamp Out/Power Amp In connections to permit the insertion of signal processing equipment into the signal path between the preamp output and the power amp input when desired. In addition, the amplifier shall provide a TAPE OUT jack with line-level output to feed a recording device.

The amplifier shall offer a 5-band full parametric equalizer to provide continuous and independent control over the audio signal's frequency content, with independent GAIN, FREQ and Q controls. The amplifier shall provide an audio level meter, with peak limiting when amplifier is driven toward clipping. This meter shall also provide power amplifier fault indication.

The amplifier shall provide a balanced (Bridge-tied-load) speaker output for 8-ohm speakers and distributed 25/70V speaker lines.

Individual controls shall be provided to set the MIC, AUX and Telephone Page Volume, VOX Sensitivity, and ALC levels.

A power indicator shall also be provided. The amplifier shall operate from a 100V AC to 240V AC, 50/60Hz source, and shall be equipped with a replaceable fuse for electrical overload protection.

Dimensions for all the amplifier models shall be 16-1/2" W x 3-1/2" H x 13-1/2" D. The weight shall not exceed 14 lbs.

The amplifier shall carry the necessary safety agency listings EN62368-1:2014 for both U.S. and Canada.

LIMITED WARRANTY, EXCLUSION OF CERTAIN DAMAGES

Bogen Models PS120-G2 and PS240-G2 are warranted to be free from defects in materials and workmanship for five (5) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the warranty period will be repaired or replaced by Bogen, at Bogen's option, with new or refurbished product, provided the product is shipped insured and prepaid to: Bogen Factory Service Department: 4570 Shelby Air Drive, Suite 11, Memphis, TN 38118, USA. Repaired or replacement product(s) will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW. Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. **IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.** Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by Bogen Factory Service Department -- same address as above or call 201-934-8500, at owner's expense. Returned products which do not qualify for warranty service, may be repaired or replaced at Bogen's option with a previously repaired or refurbished item. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All parts and labor charges as well as shipping charges will be at the owner's expense.

All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

06/2024