

Platinum Series Public Address Amplifiers

Models
PS600, PS240, PS120, PS60



Description

Bogen's Platinum Series Public Address Amplifiers offer powerful features rarely found in other commercial amplifiers – such as a 5-band full parametric EQ, without the need for add-on modules, delivering outstanding value for a wide variety of installed sound applications such as retail, restaurants, hospitality, corporate meeting rooms, educational facilities, houses of worship and many more. The Platinum Series model lineup includes the PS60 (60W), PS120 (120W), PS240 (240W), and PS600 (600W), all manufactured with proven Bogen quality and reliability and backed by an industry-leading five (5) year warranty.

Features

- 600-, 240-, 120-, and 60-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/70V speaker output
- Standard 19" rack mountable – 2RU package for all models
- 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
- Selectable AUX input muting during TEL paging: -60, -21, -10, and 0dB
- VOX sensitivity adjustment for TEL paging
- Input muting with individual selection available on all inputs
- Adjustable automatic level control on TEL input
- AUX fade back after TEL page
- Remote master volume control capability (using optional GSRVC)
- Preamp out/Power amp in connections, serves as an Insert for external audio processing
- Tape output connection, pre-master
- Level indicator meter, and peak limiting when amplifier is driven toward clipping
- 100VAC-240VAC, 50/60 Hz universal power supply
- Detachable IEC power cord
- Detachable, tamper-resistant front cover **included**
- Listed to UL Standard EN62368-1:2014 for U.S. & Canada

Accessories

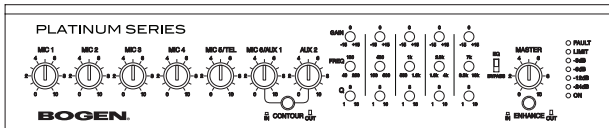
- **Model GSDRPK** – 19" 2U Rack mount installation kit
- **Model GSRVC** – Single-gang remote volume control (up to 1000 ft.)

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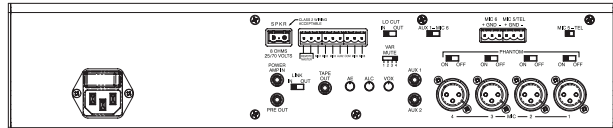
Specifications subject to change without notice.

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Front Panel



Rear Panel

Technical Specifications

- Power Rating (RMS):** PS60: 60 watts; PS120: 120 watts; PS240: 240 watts; PS600: 600 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: 11mV (200 ohms)
- AUX: 2 Hi-Z RCA jacks. Sensitivity: 0.085V (10k ohms)
- TEL: Pluggable screw terminals. Sensitivity: 0.07V (600 ohms)
- Power Amp In/Pre Out: In 1V/Out 1V 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:** PS60: 0.83A; PS120: 1.55A; PS240: 2.37A; PS600: 5.30A
- 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 @ 10 kHz (AUX 1 & 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 lbs.

Architect and Engineer Specifications

The public address amplifier shall be a Bogen Model PS600 with a full power rating of 600-watts, Model PS240 with a full power rating of 240-watts, Model PS120 with a full power rating of 120-watts, or Model PS60 with a full power rating of 60-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. Music level shall be returned 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.