

BG Series – Paging & BGM Amplifiers



◀ **BG-115 & BG-130 Amplifiers**

Featuring three inputs, Auto-Mute, and Music-On-Hold (MOH) output, TOA's new BG Series mixer/amplifiers are ideal for a wide variety of paging and background music applications.

Engineered with TOA's legendary quality and reliability, the BG Series is simple to install and operate, saving you time and money.

For optimal versatility, the BG Series offers both a 15 W and 30 W model, each with three inputs: MIC/TEL (selectable), Program (PGM), and Auxiliary (AUX).

The Auto-Mute function permits voice-activated MIC/TEL paging override of the AUX/PGM channels without interrupting the MOH output. The MOH output receives only the AUX/PGM channels and is adjustable from line-level to 1 W / 8 Ω to accommodate a variety of telephone systems.

These features combine with competitive pricing and a three-year warranty to make TOA's BG Series the unbeatable choice for virtually any system requiring paging, background music and MOH.

FEATURES

- ▶ **Ideal for a wide variety of Paging, BGM and MOH applications**, such as offices, restaurants, retail stores, and warehouses.
- ▶ Two models available: **BG-115** (15 W) and **BG-130** (30 W).
- ▶ **MIC/TEL Page Input** (selectable), balanced, with screw terminal connector.
- ▶ **Program (PGM) Input**, balanced, with screw terminal connector.
- ▶ **Auxiliary (AUX) Input**, unbalanced, with dual-RCA connector for convenient connection of stereo sources.
- ▶ **Auto-Mute Function** allows voice-activated MIC/TEL paging over-ride of AUX/PGM without interrupting the MOH output.
- ▶ **Music-On-Hold (MOH) Output** receives only AUX/PGM channels and is adjustable from line-level to 1 W / 8 Ω .
- ▶ **Auto-Mute SENSE Control** for adjusting MIC/TEL mute activation threshold.
- ▶ **External Mute** screw terminals for activating mute function with external contact closure.
- ▶ **25/70 V and 4 Ω Speaker Outputs** with screw terminal connector, and protective cover plate.
- ▶ **Protection Circuitry** prevents potential damage from overloads, short circuit, or overheating.
- ▶ **Bass/Treble Tone Controls** affect only the AUX/PGM channels to the main speaker output.
- ▶ **Signal, Peak, and Power LEDs** provide instantly recognizable status indication.
- ▶ **Rear Panel AC Receptacle** for convenient connection of external equipment.
- ▶ **Optional Mounting Brackets** available:
 - MB-25B-BK** (single rack-mount)
 - MB-25B-J** (dual rack-mount)
 - WB-900B** (wall-mount).
- ▶ **Three Year Warranty**



Architect's & Engineer's Specifications

The mixer/amplifier shall control and mix up to three input signals and deliver an audio output of 15 W / 30 W RMS. Frequency response shall be 50 Hz to 20 kHz (± 3 dB) with less than 0.5% THD at rated output. The output regulation shall be less than 2 dB, no load to full load. It shall be capable of operation from a 110 / 120 VAC 50/60 Hz line.

The mixer/amplifier shall have a switch-selectable MIC/TEL input to accept either low impedance microphone or telephone paging signals with -60 / -20 dBV sensitivity. The MIC/TEL input shall include a screw-terminal type connector with a built-in matching transformer. The MIC input impedance shall be 600Ω and the TEL input impedance shall be $600 / 10 \text{ k} \Omega$.

The mixer/amplifier shall include a Program (PGM) input, electronically-balanced, -10 dBV, with screw-terminal connector and an Auxiliary (AUX) input, unbalanced, -10 dBV, with dual-RCA pin jacks. The AUX and PGM input impedance shall each be $10 \text{ k} \Omega$.

The mixer/amplifier shall include an adjustable Music-On-Hold (MOH) output with a maximum output level of 1 W at 8Ω . Internal jumpers shall allow disconnection of the PGM and/or AUX channels from the MOH (and main) outputs.

The mixer/amplifier shall include 25 V, 70 V and 4Ω transformer-isolated outputs with screw-terminal type connections and protective speaker terminal cover plate. The amplifier shall provide short-circuit and thermal protection.

The mixer/amplifier shall incorporate an Auto-Mute function for MIC/TEL paging over-ride of AUX/PGM without interrupting the MOH output. A rear panel Auto-Mute SENSE control will allow threshold adjustment of mute activation. Screw-terminals for activating the mute function with external switch closure shall also be included. An internal jumper shall allow assignment of MIC/TEL and/or AUX/PGM to respond to the mute function activation.

The mixer/amplifier front panel shall include MIC/TEL and PGM volume controls and Signal, Peak and Power LEDs. The mixer/amplifier rear panel shall include AUX volume control and Bass/Treble tone controls (100 Hz and 10 kHz , ± 10 dB). The tone controls shall not affect the MOH output. A rear panel AC receptacle (unswitched) shall be included for connection of external equipment.

Dimensions shall be 8.27" (210 mm) W x 10.87" (276 mm) D x 3.66" (93 mm) H with feet or 3.48" (88.4 mm) H without feet. Net weight of the BG-115 and BG-130 shall be 7.28 lbs (3.3 kg) and 8.60 lbs (3.9 kg) respectively. Front panel finish and material shall be black ABS resin and case finish (and material) shall be black sheet steel. It shall occupy two EIA standard 19" rack spaces with optional rack mounting brackets for single or dual unit mounting. Wall-mount brackets shall also be available. The Mixer/Power Amplifier shall be TOA model BG-115/130.



BG SERIES SPECIFICATIONS

Type	3-channel mixer/amplifier
Output Power	BG-115: 15 W RMS / BG-130: 30 W RMS
Frequency Response	50 Hz – 20 kHz (± 3 dB)
Total Harmonic Distortion	0.5% or less, at 1 kHz, rated output 0.1% or less, at 1 kHz, 5 W output
Inputs	Mic/Telephone page input Program input Auxiliary input
Input Sensitivity & Impedance	Mic: 1 mV (-60 dBV), 600Ω , balanced Telephone: 100 mV (-20 dBV), $10 \text{ k} \Omega$, balanced Program: 315 mV (-10 dBV), $10 \text{ k} \Omega$, electronically-balanced* Auxiliary: 315 mV (-10 dBV), $10 \text{ k} \Omega$, unbalanced
Outputs	Main: transformer isolated, balanced, 4Ω , 25 & 70 V MOH: balanced, 1 W at 8Ω
Output Regulation	Less than 2.0 dB, no load to full load
Signal-to-Noise Ratio (Band Pass: 20 Hz – 20 kHz) (Tone Controls: set at center)	Mic: 60 dB Telephone: 75 dB Program: 75 dB Auxiliary: 75 dB
Tone Controls	Bass: ± 10 dB at 100 Hz Treble: ± 10 dB at 10 kHz Controls affect only Program and Auxiliary inputs.
Controls	Mic/Tel gain MOH output level Program gain Auto-Mute sense Aux gain Mic/Tel selector switch Bass Power ON/OFF switch Treble
Indicators	Power, Signal, Peak LEDs
Power Consumption	BG-115: 50 W / BG-130: 90 W
Other Features	Automatic electronic drive limiter, electronic muting
Color	Black
Dimensions (W x H x D)	8.27" x 3.66" x 10.87" (210 mm x 93 mm x 276 mm)
Weight	BG-115: 7.28 lbs (3.3 kg) / BG-130: 8.60 lbs (3.9 kg)
Optional Accessories	Rack-mount kits: MB-25B-BK (single); MB-25B-J (dual) Wall-mount kit: WB-900B

* Optional transformer available.

NOTE: All specifications are subject to change without notice.