**AmPlus 100™ Amplifier With Two 70V/100V Zones Installation**

**AmPlus 100 Amplifier Large Monophonic Installation**

**Technical Specifications**

**Power Output**
- Stereo: 65W per channel into 4Ω
- 50W into 8Ω
- 70V Bridged Mono: 100W into 4Ω
- 100V Bridge Mono: 100W into 98Ω
- 70V/4Ω: 50W @ 70V output into 98Ω
- 65W @ Ch. 2 output into 4Ω
- 100V/4Ω: 50W @ 70V output into 196Ω
- 65W @ Ch. 2 output into 4Ω

**Input Sensitivity**
- 315mV required to drive both channels to full power in any mode.

**Input Attenuation**
- 0dB to off

**Input/Output Configurations**
1. 2-channel (stereo)
2. Mono into 4Ω load
3. Mono into 70V/100V load
4. Dual-Mono (1 source/2 zones)
5. Channel 1: 70V/100V; Channel 2: 4Ω

**Input Impedance**
- 32kΩ balanced
- 11kΩ unbalanced

**Line Output Impedance**
- 600Ω

**Line Output Distortion**
- 0.1%

**Frequency Response**
- Active EQ bypassed: 4Ω outputs: 40Hz – 16kHz, ±1dB
- 70V outputs: 60Hz – 16kHz, ±1dB

**THD @ Rated Power**
- 4Ω outputs: ≤1% THD (40Hz – 16kHz)
- 70V outputs: ≤1% THD (60Hz – 16kHz)

**Hum and Noise**
- Line outputs: 92dB
- Power amplifier outputs: 80dB below maximum output with 4Ω load

**LED Indicator**
- Power: front panel

**Mechanical Specifications**

**Power Amplifier**
- 17.0W x 10.0D x 3.0H (43.2 cm (W) x 25.4 cm (D) x 76.2 cm (H))
- 20 lb (9.1 kg)
- WARRANTY

**System Configuration**

**Components**
- The AmPlus 100 business music amplifier has front end processing permitting the connection and level adjustment of two sources: left/right or source A/source B. Power hookup, remote volume hookup, line output connections, and provision for bass adjustment are provided on the rear panel.
- Option card accessories offer the freedom to add additional sources, paging, or active equalization. Source or paging cards may be plugged into option card slots provided on the rear panel.

**Warranty Information**

- The AmPlus 100 business music amplifier is covered by a five-year, transferable limited warranty.
### Features, Functions, and Benefits for the Business Owner

<table>
<thead>
<tr>
<th>Features</th>
<th>Functions</th>
<th>Benefits</th>
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</thead>
<tbody>
<tr>
<td>Patented Bose® signal processing technology.</td>
<td>High-fidelity, natural sound at all volume levels.</td>
<td>Technology built in to the AmPlus 100™ ensures natural, lifelike sound, no matter how loud or how soft your system is played.</td>
</tr>
<tr>
<td>Remote volume control.</td>
<td>Controls the volume of the entire system.</td>
<td>The controls on the amplifier are kept to a minimum. To ensure ease of use in day-to-day operations, the amplifier comes with a remote volume control.</td>
</tr>
<tr>
<td>Five-year warranty.</td>
<td>An amplifier you can count on.</td>
<td>The system is designed for maximum reliability. The system goes through rigorous testing by Bose to ensure that it will meet the toughest requirements. As an indication of our confidence in this system’s reliability, the AmPlus 100 amplifier is covered by a five-year transferable warranty.</td>
</tr>
<tr>
<td>Dynamic range compensation.</td>
<td>Appropriate sound level regardless of variations in the source material.</td>
<td>Digital recordings have a wide dynamic range — there can be great loudness variation between passages of loud and soft music on one CD. Bose technology ensures that the music your customers hear is neither annoyingly loud nor too soft.</td>
</tr>
<tr>
<td>A range of amplifiers from which to choose.</td>
<td>An amplifier that gives you the amount of power you need — no more and no less.</td>
<td>Your Bose expert will design a system for you that meets your needs. This includes choosing either the AmPlus 100 amplifier, AmPlus 50 amplifier, or Bose 1800 amplifier to deliver the right amount of power for your specific application.</td>
</tr>
<tr>
<td>Optional accessories are available for added functionality.</td>
<td>An amplifier that gives you exactly the functionality you need.</td>
<td>The AmPlus 100 amplifier comes with the ability to connect to one source. Additional sources, paging, and active equalization are added as needed; customers do not pay for functions they do not need.</td>
</tr>
<tr>
<td>Op-E-voice® paging.</td>
<td>Appropriate sound level regardless of variations in speech.</td>
<td>The AmPlus 100 amplifier can send paging to the zones where you require it. Paging is clear and intelligible. Page signals are electronically filtered to eliminate microphone handling noise. Music gradually returns to the original level after paging for a smooth transition.</td>
</tr>
<tr>
<td>Rack mount accessory kit.</td>
<td>Easy to install.</td>
<td>The amplifier can be desk or shelf mounted. It can be rack mounted using a specific rack mount accessory kit.</td>
</tr>
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</table>
| **Engineers’ and Architects’ Specifications**

The power amplifier shall deliver the following Watts of continuous power with less than 1% distortion from 20Hz to 20kHz (direct):

- Stereo: 65W per channel into 4Ω
- 70V/100V Bridged Mono: 100W into 49Ω/98Ω
- 70V/4Ω: 50W @ 70V outputs into 98Ω
- 65W @ Ch. 2 outputs into 4Ω
- 100V/4Ω: 50W @ 100V into 196Ω
- 65W @ Ch. 2 outputs into 4Ω

The signal-to-noise ratio shall be greater than 80dB.

The frequency response shall be the following:

- 4Ω outputs: 40Hz – 16KHz, ±1dB
- 70V/100V outputs: 60Hz – 16KHz, ±1dB

The power amplifier shall have the following controls on the rear panel: two inputs, input attenuation, remote volume control, bass adjust, input mode switch, and amplifier mode switch. The only control on the front panel shall be the power ON/OFF switch. All input and output connectors shall be quick connect terminal blocks. The amplifier shall accept equalization cards for the Bose Model 8, Model 25, Model 32, and Model 1B loudspeakers. It shall also accept optional plug-in cards facilitating paging and additional sources.

The power amplifier shall operate on 120V–AC, 50/60Hz and consume 2.0 Amperes at rated output. It shall be desk/shelf mounted or rack mounted using a specific rack mount kit. The power amplifier shall be 17" (43.2 cm) wide x 10" (25.4 cm) deep x 3.75" (9.52 cm) high. The power amplifier shall weigh 20 pounds (9.2 kg).

The amplifier enclosure shall be zinc plated or pre-coated and finished in professional grey. The Bose AmPlus 100 business music amplifier.

### Specifications

**AmPlus™ 100 Amplifier Direct-coupled Model 1B Installation**

<table>
<thead>
<tr>
<th>Source</th>
<th>AmPlus™ 100 Amp Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right 1</td>
<td>Right 2</td>
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</table>

**AmPlus™ 100 Amplifier Simple Monophonic Installation**

<table>
<thead>
<tr>
<th>Source</th>
<th>AmPlus™ 100 Amp</th>
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</thead>
<tbody>
<tr>
<td>Left 1</td>
<td>Left 2</td>
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