

# FreeSpace® ZA 250-LZ / 190-HZ zone amplifier



## Product Overview

Zone amplifier designed to serve as a standalone amplification system or expansion sound system that utilizes front-end signal processing from products such as FreeSpace IZA 250-LZ / IZA 190-HZ integrated zone amplifiers, the FreeSpace 4400 business music system and ControlSpace® engineered sound processors.

## Product Information

The Bose® FreeSpace® ZA 250-LZ / ZA 190-HZ zone amplifier provides basic amplification and sound system expansion for use with front-end signal processing devices. Expansion is simplified when this amplifier is used with a FreeSpace IZA integrated zone amplifier, where one cable connection allows the amplifiers to function together as one system—sharing music and paging sources, as well as master volume control. You can also use the FreeSpace ZA amplifier with other products, such as the Bose FreeSpace 4400 business music system and ControlSpace® engineered sound processors, to provide amplification for additional zones.

## Applications

Designed for a wide range of applications, including:

- Retail stores
- Restaurants and bars
- Hospitality venues
- Conference centers
- Schools
- Auxiliary zones

## Key Features

- **Premium sound quality** from a reliable, high quality Class-D amplifier designed to expand sound systems for loudspeaker installations
- **Expandable amplification** allows for easy system expansion when coupled with a FreeSpace IZA 250-LZ or IZA 190-HZ integrated zone amplifier. The two amplifiers will function together as one system
- **Compact, lightweight design** enables the FreeSpace zone amplifier to be placed out of the way—on a table, desk, counter, shelf or in an equipment rack using the optional Rack Mount Kit accessory
- **Two models available**, 4/8 Ω or 70/100 V output, allow for better fit options for specific installations

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## Technical Specifications

Power Rating
FreeSpace® ZA 250-LZ zone amplifier
FreeSpace® ZA 190-HZ zone amplifier

Audio Performance Specifications
FreeSpace® ZA 250-LZ zone amplifier
FreeSpace® ZA 190-HZ zone amplifier

Audio Inputs
Line Inputs

Audio Outputs
FreeSpace® ZA 250-LZ zone amplifier
FreeSpace® ZA 190-HZ zone amplifier

Indicators and Controls
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Electrical Specifications
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Physical
FreeSpace® ZA 250-LZ zone amplifier
FreeSpace® ZA 190-HZ zone amplifier

TECHNICAL DATA SHEET

# FreeSpace® ZA 250-LZ / 190-HZ zone amplifier

**BOSE**

TECHNICAL DATA SHEET



1. **POWER SWITCH** – ON/OFF AC power
2. **POWER** – LED indicates if unit is active



1. **INPUT** – Stereo RCA input connectors
2. **OUTPUT MODE (ZA 250-LZ only)** – Switches between mono or stereo mode (mono mode sums both input signals)
3. **OUTPUT TRIM** – Allows for up to 20 dB attenuation of each loudspeaker output
4. **OUTPUT connectors** - Two terminal strip speaker connectors for two 4Ω or 8Ω loudspeaker loads (ZA 250-LZ) or one 3-pin Euroblock for 70/100 V systems
5. **AC Mains receptacle** – AC line voltage input

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## AC Current Draw and Thermal Dissipation Information


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TECHNICAL DATA SHEET

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## Architects' and Engineers' Specifications

The amplifier shall employ Class-D amplification topology. The amplifier shall incorporate a switch-mode power supply allowing normal operation from AC outlets ranging from 100 – 240 V (+/- 10%) at 50/60 Hz. The amplifier shall have an IEC 320-C14 electrical power inlet and shall be equipped with a removable power supply cord. A power switch shall be located on the front panel. The product shall include protection from shorted loads and general overheating. The amplifier's physical size shall be 1 RU in height by 1/2 RU in width and be capable of rack mounting using an accessory kit. Two models shall be designed to be rack mounted together horizontally to combine for a full 1 RU installation. The product shall have venting appropriate for natural convection without fans. The amplifier section shall have two amplifier configurations offered in two separate models. Each output channel shall have output trim controls.

The low impedance model shall have two output channels with a frequency response of 20 Hz to 20 kHz (+0/-3 dB) and drive 4 ohm loads at 50 watts continuous power or 25 watts per channel continuous power into 8 ohm loads. The low impedance model shall have THD+N at full-rated power less than or equal to 0.3%. Output connection shall be made via two terminal strips that accommodate 22-14 AWG wires using included spade lug connectors.

The high impedance model shall have a single output channel with a frequency response of 60 Hz to 20 kHz (+0/-3 dB) and drive 70/100 V distributed audio systems. The low impedance model shall have THD+N at full-rated power less than or equal to 1%. Output connection shall be made via a 3-pin Euroblock connector.

Both models shall meet or exceed the following performance specifications: channel separation (crosstalk) less than or equal to -60 dB below rated power at 1 kHz and dynamic range of 88 dB. The amplifier shall incorporate one set of line-level in 1 □YuEha.