# PowerSpace P4150+
## versatile power amplifier

**BOSE**

## Product Description

The Bose PowerSpace P4150+ amplifier combines power and DSP into a 1RU, four-channel design for quick-turn installations. Part of a comprehensive platform of loudspeakers, controls, and software that help installers deliver premium commercial sound systems efficiently, Bose PowerSpace+ amplifiers feature a quick-setup workflow. An onboard configuration utility and intuitive browser-based UI present common tasks in a logical manner, so you can configure the system faster, reducing installation time while increasing setup accuracy. Once installed, Bose-proprietary algorithms offer predictable performance while optional interfaces — such as ControlCenter analog zone controllers — make operation easy for end users. For premium commercial applications, Bose PowerSpace+ models provide amplification and DSP in one integrated, easy-to-configure package.

## Applications

Retail stores

Restaurants and bars

Hospitality venues

Conference centers

Schools

Auxiliary zones

## Key Features

**150 watts per channel** and works seamlessly with Bose loudspeakers and controls to create complete commercial sound systems

**Built-in DSP**, including SmartBass processing, routing, level control, delays, limiters, Bose loudspeaker EQs, plus input and area EQs

**PowerSpace configuration utility** facilitates setup with an integrated webserver and intuitive browser-based UI, including real-time control with signal and thermal monitoring

**Opti-voice paging** provides a smooth transition between music and announcements

**Integrated features to simplify commercial installations:** Dedicated input for 600-ohm telephone or mic paging, independent 600-ohm music-on-hold and line-level aux outputs, and a NO/NC mute connection

**Load-independent outputs** deliver full channel power to either low-impedance loads (4-8 Ω) or high-impedance (70/100V) loads without bridging

**I-Share outputs** delivers 2x power level into low-impedance (2-4 Ω) or high-impedance (70/100V) loads by combining the current of both channels

**Auto-standby mode** saves power when audio signal falls below a set threshold after 20 minutes, then wakes when audio returns

**Intuitive end-user operation** — optional ControlCenter CC-1, CC-2, and CC-3 analog zone controllers provide easy volume control and source selection

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## Technical Specifications

| POWER RATING | |
|---|---|
| Amplifier Power | 4x 150 W (THD+N < 0.04%, 1 kHz, 4-8 Ω, 70/100V) |
| I-Share Mode Power | 2x 300 W (2-4 Ω, 70/100V) (Each channel pair can be I-Shared) |
| Gain (Low-Z mode) | 29 dB |
| Gain (70V mode) | 35 dB |
| Gain (100V mode) | 38 dB |

| AUDIO PERFORMANCE | |
|---|---|
| Frequency Response | 4-8 Ω: 20 Hz – 20 kHz (+/- 1 dB @ 1 W); 70/100V: Same as 4-8 Ω with 50 Hz high-pass filter |
| Channel Separation (Crosstalk) | > 80 dB @ 1 kHz, > 65 dB @ 20 kHz |
| Dynamic Range | ≥ 100 dBA (at rated power) |

| INTEGRATED DSP | |
|---|---|
| A/D and D/A Converters | 24-bit / 48 kHz |
| Processing Functions | Matrix mixer, loudspeaker EQ, Vpeak/Vrms limiters, real-time PEQ, ControlCenter configuration, mute/output polarity inversion |
| Audio Latency | <1 ms (any analog input to loudspeaker output) |

| AUDIO INPUTS | ANALOG |
|---|---|
| Input Channels | 4 balanced, 2 unbalanced |
| Connectors | 3x 3-pin Euroblock, 1x 4-pin Euroblock (supports PTT/VOX dynamic mic or 600 Ω telephone paging ), 2 stereo RCA (internally mono-summed) |
| Input Impedance | 10 kΩ |
| Maximum Input Level | 22 dBu (at 14 dBu sensitivity setting) |
| Sensitivity | -10 dBV / 4 dBu / 14 dBu |

| AUDIO OUTPUTS | SPEAKER | AUXILIARY |
|---|---|---|
| Outputs | 4 | 2 |
| Connectors | 8-terminal block | 3-pin Euroblock (600 Ω music-on-hold, line level) |

| INDICATORS AND CONTROLS | |
|---|---|
| Power LED | Solid white: Power is on. Blinking white: Unit is in auto standby mode. Solid red: Power supply fault. Blinking Red: Thermal fault. |
| Input Signal LED | Green: Signal present. Amber: Input is near clipping. Red: Input is clipping. |
| Output Limit LED | Amber: Amplifier limiting an output. Blinking red: Amplifier muted. Solid red: Amplifier or thermal fault. |
| Controls, Front Panel | Power On/Off |
| Controls, Rear Panel | RJ-45 remote input for CC-1, CC-2 and CC-3 ControlCenter zone controllers, mute, output attenuators. |

| ELECTRICAL | | |
|---|---|---|
| Mains Voltage | 100 VAC – 240 VAC (±10%, 50/60 Hz) | |
| AC Power Consumption | 120 VAC: 25 W (Standby), 325 W (Max) | 230 VAC: 25 W (Standby), 325 W (Max) |
| Mains Connector | Standard IEC (C14) | |
| Protections | Vpeak/Vrms limiters, high temperature, output short, extra high frequency (EHF), excessively low or high AC line voltage | |

| PHYSICAL | |
|---|---|
| Operational Temperature Range | 0 °C to 40 °C |
| Storage Temperature Range | -40 °C to 70 °C |
| Dimensions (H × W × D) | 44 × 483 × 414 mm (1.7 × 19.0 × 16.3 in) |
| Net Weight | 6.6 kg (14.6 lb) |
| Shipping Weight | 8.6 kg (19.0 lb) |
| Cooling System | Microprocessor controlled, variable speed fans, front to back air flow |

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**1** POWER SWITCH – In/Out standby mode

**2** POWER LED
Solid white LED indicates the unit is ON
Blinking white LED indicates the unit is in auto standby mode
Solid red LED indicates a power supply fault
Blinking red LED indicates a thermal fault

**3** INPUT 1, 2, 3, 4 SIGNAL LED – Each LED operates independently
Green LED indicates signal is present
Amber LED indicates signal is near clipping
Red LED indicates clipping

**4** OUTPUT 1, 2, 3, 4 LIMIT LED – Each LED operates independently
LED is amber when the amplifier is limiting the corresponding output due to exceeding the outputs' Vpeak or Vrms limits
LEDs will display solid red if an amplifier fault is detected
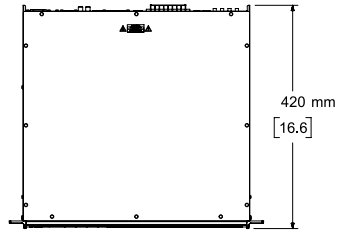LEDs will blink red when all outputs are mute
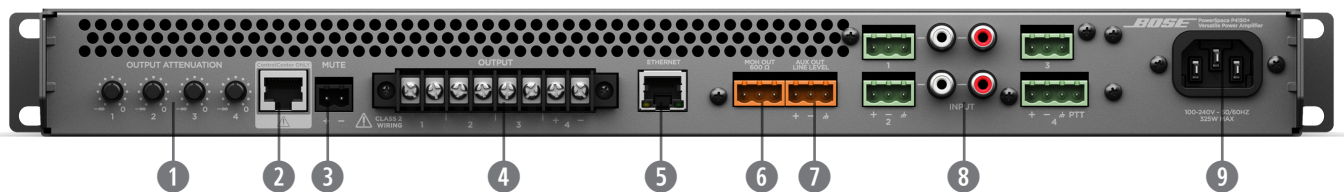


**1** OUTPUT ATTENUATION 1, 2, 3, 4 – Output attenuators for each output. Turn the controls clockwise to decrease attenuation and counter-clockwise to increase attenuation

**2** CONTROLCENTER – RJ-45 input connector for Bose CC-1, CC-2, CC-3 ControlCenter analog zone controllers or CV41 4-to-1 converter only

**3** MUTE – Contact closure connection where a short across the mute connector will mute all outputs. Mute polarity can be inverted in the configuration utility

**4** OUTPUT – 8-terminal block connector for loudspeaker connections. Each channel can deliver up to 150 watts regardless of load into 4 Ω, 8 Ω, 70V, or 100V. Each output pair can be I-Shared

**5** ETHERNET – Connect amplifier to a switch or laptop Ethernet port to configure via the web-based configuration utility

**6** MUSIC-ON-HOLD – Dedicated 600 Ohm music-on-hold interface

**7** AUXILIARY OUTPUT – Line level auxiliary output

**8** INPUT – Inputs 1 and 2 support balanced line level inputs (Euroblock) or unbalanced inputs (Stereo RCA).
Inputs 3 and 4 are balanced inputs, and input 4 also supports either a 600 Ohm telephone paging input or a PTT/VOX dynamic microphone input

**9** AC INLET – Removing the AC cord when the amplifier is on is equivalent to powering down using the front panel power switch, and is an acceptable power-down method
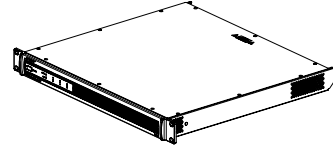
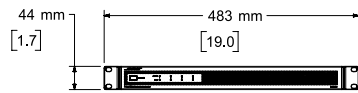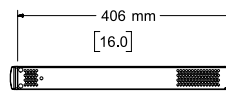# PowerSpace P4150+
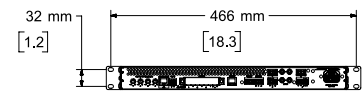## versatile power amplifier

## Mechanical Diagrams

420 mm
[16.6]

**Top View**

44 mm
[1.7]

483 mm
[19.0]

**Left View**　　**Front View**

406 mm
[16.0]

**Right View**

32 mm
[1.2]

466 mm
[18.3]

**Rear View**
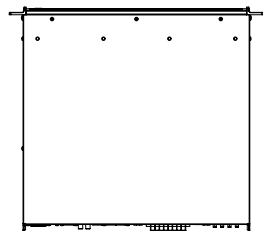
**Bottom View**

NOTES:
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES

For additional specifications and application information, please visit PRO.BOSE.COM. Specifications subject to change without notice. 11/2019