TECHNICAL DATA

PowerSpace P4300A versatile power amplifier





Product Description

Ideal for zone-expansion applications, Bose PowerSpace amplifiers enhance any premium commercial sound installation with clean, reliable power — and digital connectivity. A Bose AmpLink input allows for multiple channels of uncompressed, low-latency digital audio from Bose DSPs via a single Cat 5 cable. The PowerSpace P4300A provides 300 watts per channel and features versatile outputs that give you the flexibility to deliver full channel power to either low- or high-impedance loads — without bridging — and even send double power to a single zone. For premium commercial applications, Bose PowerSpace amplifiers provide the power and performance to get the job done — pure and simple.

Applications

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

Key Features

300 watts per channel and works seamlessly with Bose loudspeakers, DSPs, and controls to create complete commercial sound systems

Bose AmpLink input for simplified multichannel digital audio connection to compatible DSPs, reducing terminations and related points of failure

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

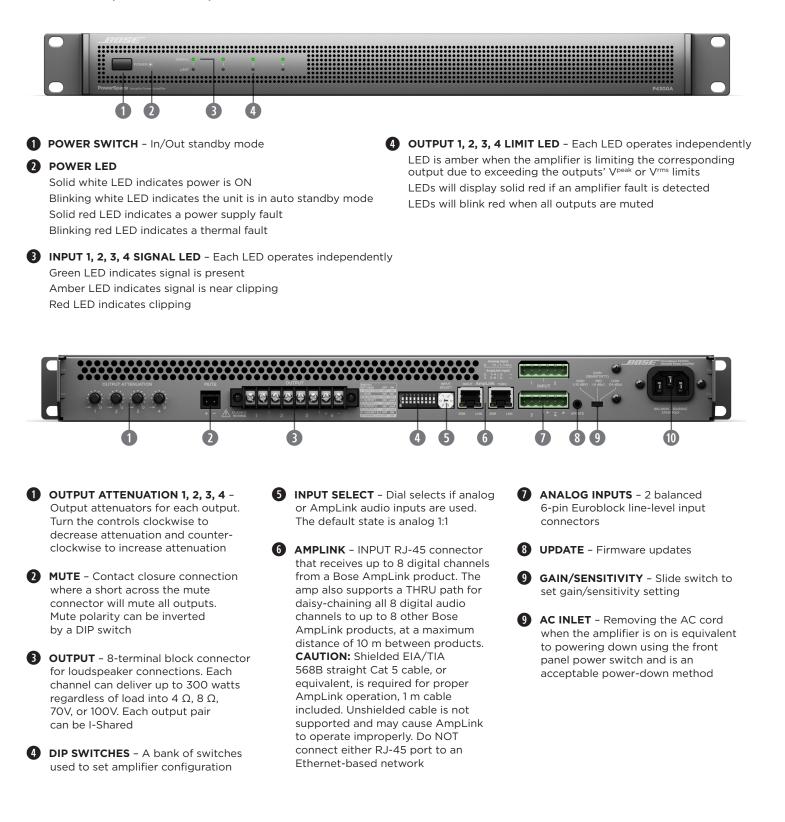
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Technical Specifications

POWER RATING		
Amplifier Power	4x 300 W (THD+N < 0.04%, 1 kHz, 4-8 Ω, 70/100V)	
I-Share Mode Power	2x 600 W (2-4 Ω, 70/100V) (Each channel pair can be I-Shared)	
Gain (Low-Z mode)	32 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)	
Audio Latency	< 1 ms (any analog or AmpLink input to loudspeaker output)	
AUDIO INPUTS	ANALOG	AMPLINK
Input Channels	4 balanced	8 digital
Connectors	2x 6-pin Euroblock	RJ-45 (Input)
Input Impedance	10 kΩ	
Maximum Input Level	22 dBu (at 14 dBu sensitivity setting)	
Sensitivity	-10 dBV / 4dBu / 14 dBu	
AUDIO OUTPUTS	SPEAKER	AMPLINK
Outputs	4	8 digital
Connectors	8-terminal block	RJ-45 (Thru)
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	Amplifier mode DIP switches, input sensitivity switch, input select dial, mute, output attenuators	
ELECTRICAL		
Mains Voltage	100 VAC - 240 VAC (±10%, 50/60 Hz)	
AC Power Consumption	120 VAC: 25 W (Auto standby), 570 W (Max)	230 VAC: 25 W (Auto standby), 570 W (Max)
Mains Connector	Standard IEC (C14)	
Protections	V ^{peak} /V ^{rms} 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 × 420 mm (1.7 × 19.0 × 16.5 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	

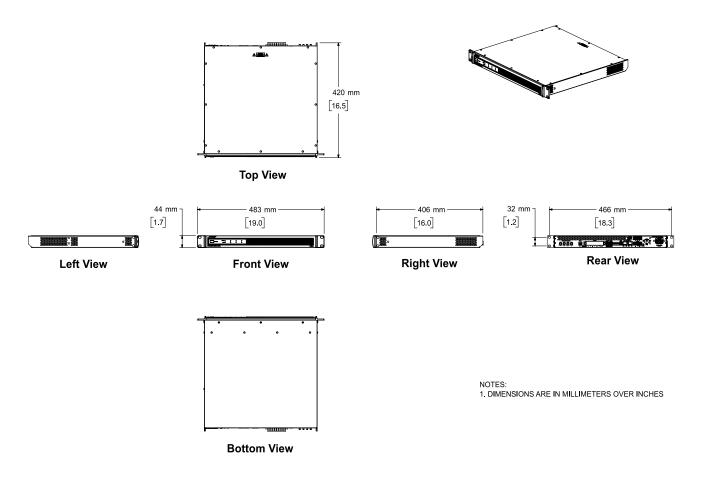
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Mechanical Diagrams



For additional specifications and application information, please visit PRO.BOSE.COM. Specifications subject to change without notice. 03/2020

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