TECHNICAL DATA

PowerShareX PSX1204D
PSX2404D
PSX4804D

adaptable power amplifiers

Product Overview

PowerShareX adaptable amplifiers are an ideal match for Bose Professional sound systems. Onboard DSP gives you instant access to optimized loudspeaker presets. ControlSpace Designer software allows for quick configuration. And proven Powersoft technology ensures you put every watt to work.

Choose from three models: PSX1204D, PSX2404D, and PSX4804D. Each networkable, four-channel amplifier offers innovative power-sharing flexibility, peak power capability, Dante® connectivity, and much more — all in a space-saving 1RU design.

And easy integration with Bose Professional DSPs, loudspeakers, and the entire ControlSpace ecosystem makes design, configuration, installation, and operation much simpler — so you can get the job done and move on to the next.

Applications

Commercial installations

Houses of worship

Performing arts

Corporate

Hotels

Retail / restaurants

Education

Key Features

Power-sharing technology dynamically allocates power evenly or asymmetrically across outputs without having to bridge channels or lose channel count when powering Bose Professional loudspeakers

Bose Professional certified presets and ControlSpace Designer integration delivers the best performance, loudspeaker protection, and visibility of the entire Bose Professional system from a single UI for easy design, configuration, control, and monitoring

Proven Powersoft reliability ensures continuous daily operation

Flexible outputs capable of handling either low-impedance (2, 4, 8 Ω) or high-impedance (70/100 V) loudspeaker loads

Built-in Dante audio supports up to 4 digital input channels from a Dante network eliminating the requirement of ordering and installing an accessory network card

4 analog inputs provide line-level source connections

PowerShareX Design Tool is a downloadable design tool that simulates the power-sharing capability of a PowerShareX amplifier that, in some cases, could lead to a lower-power model requirement and cost savings

GPIO connections provide a remote level, on/off, and alarm triggers

Rack-friendly 1RU design that is only 358 mm (14.1 in) deep, eliminating the need for oversized racks

Universal switch mode power supply with power factor correction

EN 54-16 compliant for reliable use in VA/PAVA systems with other compliant system components

For additional specifications and application information, visit BoseProfessional.com. Specifications are subject to change. 03/2026

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Technical Specifications

		PSX1204D	PSX2404D	PSX4804D
SYMMETRICAL RATINGS [1] (with all channels equally loaded)				
Rated power total	@ 4–8 Ω, 70 V, 100 V	1200 W	2400 W	4800 W
Rated power	@ 4–8 Ω, 70 V, 100 V	300 W × 4	600 W × 4	1200 W × 4
	@ 2 Ω	400 W × 4	800 W × 4	1500 W × 4
Peak power [3]	@ 8 Ω, 70 V, 100 V	600 W × 4	1200 W × 4	2400 W × 4
	@ 4 Ω	600 W × 4	1200 W × 4	3000 W × 4
	@ 2 Ω	800 W × 4	1600 W × 4	3000 W × 4
ASYMMETRICAL RATINGS [2] (total power available per a single channel using power-sharing from other channels) We recommend using the PowerShare Design Tool for system verification (downloadable at BoseProfessional.com).				
Rated power	@ 8 Ω	1100 W in 100 V mode	1300 W in 100 V mode	1300 W
	@ 4 Ω	1100 W in 70 V mode	1700 W	2600 W
	@ 2 Ω	1100 W	1600 W	1800 W
	@ 70 V	1100 W	1700 W	2100 W
	@ 100 V	1100 W	1500 W	2200 W
Peak power [3]	@ 8 Ω	2200 W	2600 W	2600 W
	@ 4 Ω	2200 W	3400 W	5200 W
	@ 2 Ω	2200 W	3200 W	3600 W
	@ 70 V	2200 W	3400 W	4200 W
	@ 100 V	2200 W	3000 W	4400 W
SYMMETRICAL BRIDGED RATINGS [1] (with two channels bridged and equally loaded)				
Rated power	@ 8 Ω bridged	600 W	1200 W	2400 W
	@ 4 Ω bridged	800 W	1600 W	3000 W
Peak power	@ 8 Ω bridged	1200 W	2400 W	6000 W
	@ 4 Ω bridged	1600 W	3200 W	6000 W
Maximum unclipped output voltage [4]	@ 8 Ω	70 V_{peak}	100 V_{peak}	139 V_{peak}
Maximum output current		33 A_{peak}	45 A_{peak}	45 A_{peak}

Footnotes:
1. All channel driven with same burst power.
2. Maximum power-sharing capacity per channel.
3. Peak power calculated from rated power for comparison to peak power values on loudspeaker data sheets.
4. Peak voltage is indicated for low-impedance mode. Peak voltage can be higher in 70 V and 100 V operation.

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AUDIO PERFORMANCE				
Frequency response		20 Hz – 20,000 Hz (±1.0 dB, 1 W @ 8 Ω)		
Signal-to-noise ratio		> 104 dBA	> 108 dBA	> 110 dBA
THD+N		< 0.1% (< 0.05% typical, from 0.1 W to half-power)		
Intermodulation distortion (SMPTE)		< 0.1% (< 0.05% typical, from 0.1 W to half-power)		
Crosstalk (1 kHz)		–70 dB typical		
Slew rate		> 50 V/µs @ 8 Ω, input filter bypassed		
Output impedance		26 mΩ @ 100 Hz		
INTEGRATED DSP				
Programming software		Bose Professional ControlSpace Designer 5.12 and later		
A/D and D/A converters		24-bit, 48 kHz		
Sample rate converter		24-bit, 44.1 kHz – 192 kHz		
Internal precision		32-bit floating-point		
Latency		2.5 ms fixed-latency architecture		
Input-to-output signal routing		4 × 4 matrix		
Presets		Bose Professional loudspeakers		
Available signal processing		Matrix mixer, 5-band PEQ, array EQ, band pass, loudspeaker EQ, limiter, delay (see **Software Details**)		
Crossovers		Butterworth 6 dB/octave to 48 dB/octave, Linkwitz-Riley & Bessel: 126 dB/octave to 48 dB/octave (IIR)		
Delay		2 s (input) + 100 ms (output) for time alignment		
AUDIO INPUTS				
Analog				
Channels		4 balanced		
Connector		12-pin Euroblock		
Input impedance		20 kΩ		
Maximum Input Level		20 dBu		
Input sensitivity	@ 8 Ω with 26 dB gain	3.54 V_{RMS}	2.48 V_{RMS}	4.91 V_{RMS}
	@ 8 Ω with 29 dB gain	2.51 V_{RMS}	1.76 V_{RMS}	3.48 V_{RMS}
	@ 8 Ω with 32 dB gain	1.78 V_{RMS}	1.24 V_{RMS}	2.46 V_{RMS}
	@ 8 Ω with 35 dB gain	1.26 V_{RMS}	0.88 V_{RMS}	1.74 V_{RMS}
Digital				
Channels (Dante)		4		
Connector		RJ-45		

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	PSX1204D	PSX2404D	PSX4804D
AUDIO OUTPUTS			
Channels	4 (high-/low-impedance; bridgeable per channel pair)		
Connectors	Euroblock, 8-pin, 7.62 mm pitch		
INDICATORS AND CONTROLS			
Status indicators	21 channel metering LEDs, 7 system status LEDs, 2 power status LEDs		
User controls, front panel	Power button, soft & hard reset buttons, 4 channel attenuation controls		
User controls, rear panel	16 output DIP switches (4 per channel), 8 system configuration DIP switches		
ELECTRICAL			
Nominal voltage	100 VAC – 240 VAC (±10%, 50/60 Hz)		
Operating voltage	90 VAC–264 VAC (50/60 Hz)		
Mains connector	IEC C20 inlet (20 A maximum; typical power consumption is 20%–50% lower; regional power cord included)		
Power supply	Universal, regulated switch mode with power factor correction (PFC)		
Output stage topology	Class D		
Protections	Thermal, excessively high/low AC mains voltage, DC, high-frequency, output short-circuit, inrush current, clip, peak, long-term/RMS		
PHYSICAL			
Compliance	EN 54-16 compliant for voice alarm control and indicating equipment (with other compliant system components)		
Operational temperature range	0 °C to 35 °C (32 °F to 95 °F)		
Cooling system	Continuous temperature-controlled variable-speed fan, front-to-back airflow		
Mounting	Integrated rack ears		
Product dimensions (width × height × depth)	483 mm × 45 mm × 358 mm (19.0 in × 1.8 in × 14.1 in)		
Net weight	7.0 kg (15.4 lb)		
Shipping weight	10.3 kg (22.8 lb)		
Package contents	(1) PowerShareX PSX1204D/PSX2404D/PSX4804D, (3) 12-pin Euroblock connectors, (1) 8-pin Euroblock connector, (1) 4-pin Euroblock connector, (1) AC power cord, (1) installation guide		
PRODUCT CODES	**PSX1204D**	**PSX2404D**	**PSX4804D**
Americas & Europe	876599-0100	876599-0200	876599-0300
Asia Pacific	878918-2130	878919-2130	878920-2130
Australia	878918-5110	878919-5110	878920-5110

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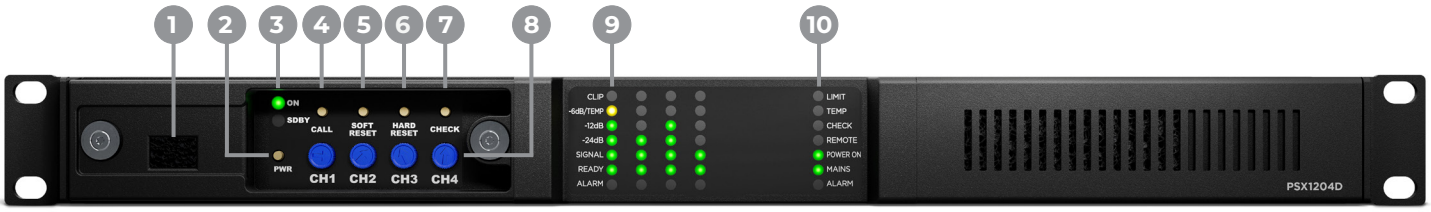
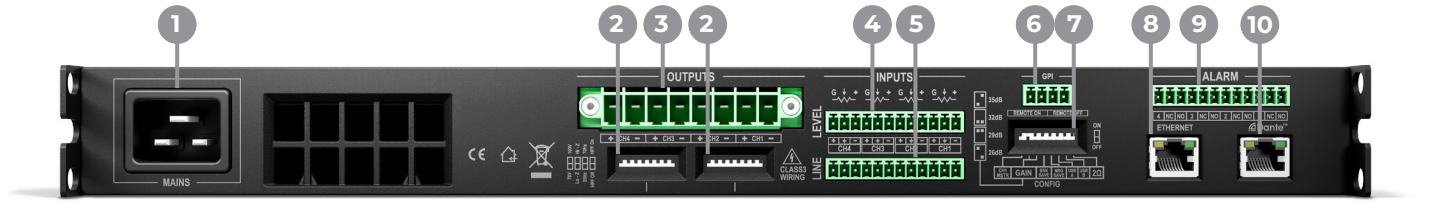
Hardware Details



(Front panel shown with magnetic faceplate removed.)

1. **Service port:** For service only.
2. **Power button:** To switch amplifier between powered-on and standby mode, press and hold for 3 seconds.
3. **Operating mode LEDs (ON, SDBY):** Indicate whether the amplifier is powered on or in standby mode.
4. **CALL button:** Reserved for future use.
5. **SOFT RESET button:** To reset network parameters to DHCP, press and hold for 3 seconds.
6. **HARD RESET button:** To restart amplifier without affecting settings or loudspeakers EQs/presets, press and hold for 3 seconds.
7. **CHECK button:** To start the self-check procedure, press and hold for 3 seconds. The procedure tests the amplifier status and reports status via channel status and system status LEDs.
8. **Channel attenuation controls (CH1–4):** Attenuation controls for the output level of each channel.
9. **Channel status LEDs:** Indicate level as meters for Channels 1, 2, 3, and 4.
10. **System status LEDs:** Indicate system status.



1. **Power input:** Power cord connection.
2. **Channel output DIP switches:** Set any configuration of low- and high-impedance output loads for each channel.
3. **Outputs:** 8-pin connector for loudspeaker connections, up to 1200 watts of power per channel.
4. **Remote level inputs:** Remotely adjust channel level via a linear 10 kΩ potentiometer per channel, in series with the channel attenuation controls.
5. **Analog line inputs:** 12-pin connector for balanced analog line-level audio signals.
6. **GPI/remote inputs:** 4-pin connector for remote on-off control, depending on the power/standby state of the amplifier.
7. **System configuration DIP switches:** Set the overall system output and performance.
8. **Ethernet port:** RJ-45 connector for control via Ethernet connection to a computer using ControlSpace Designer software and not applicable for Dante redundancy.
9. **GPO/alarm outputs:** 12-pin connector for general-purpose output from each channel to indicate a fault, unsafe operating condition, or any fault preventing normal output channel operation.
10. **Dante port:** RJ-45 connector for 4 Dante audio input streams from a computer using Dante Controller software.

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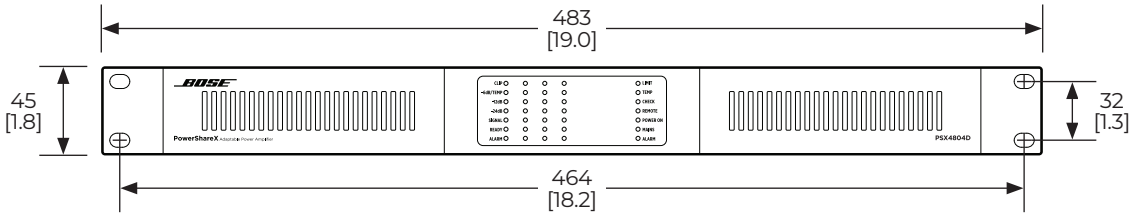
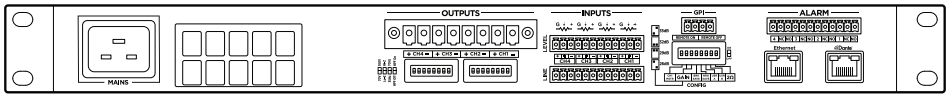
Dimensions [5]

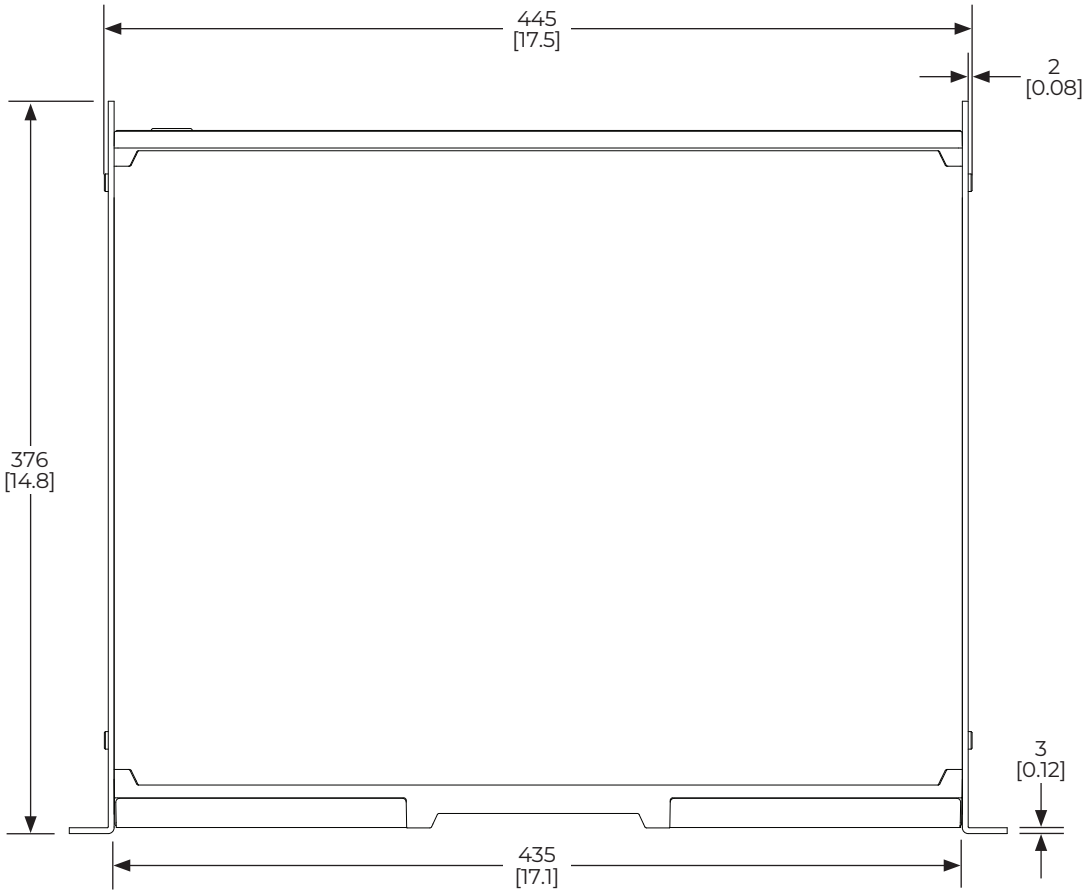
Front View



Rear View



Top View



5. Dimensions are shown in millimeters over inches.

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AC Current Draw & Thermal Dissipation Information

	PSX1204D		PSX2404D		PSX4804D	
115 V operation	**Idle**	**1/8 maximum output power @ 4 Ω**	**Idle**	**1/8 maximum output power @ 4 Ω**	**Idle**	**1/8 maximum output power @ 4 Ω**
Power consumption[6]	31.1 W	227 W	31.1 W	405 W	31.3 W	823 W
Current draw	0.45 A_{RMS}	2.1 A_{RMS}	0.45 A_{RMS}	3.7 A_{RMS}	0.47 A_{RMS}	7.7 A_{RMS}
Thermal dissipation	106 BTU/h (27 kcal/h)	261 BTU/h (66 kcal/h)	106 BTU/h (27 kcal/h)	360 BTU/h (91 kcal/h)	107 BTU/h (27 kcal/h)	760 BTU/h (192 kcal/h)
230 V operation	**Idle**	**1/8 maximum output power @ 4 Ω**	**Idle**	**1/8 maximum output power @ 4 Ω**	**Idle**	**1/8 maximum output power @ 4 Ω**
Power consumption[6]	31.5 W	251 W	31.5 W	405 W	31.6 W	840 W
Current draw	0.25 A_{RMS}	1.4 A_{RMS}	0.25 A_{RMS}	2.1 A_{RMS}	0.27 A_{RMS}	4.3 A_{RMS}
Thermal dissipation	107 BTU/h (27 kcal/h)	344 BTU/h (87 kcal/h)	107 BTU/h (27 kcal/h)	360 BTU/h (91 kcal/h)	108 BTU/h (27 kcal/h)	818 BTU/h (206 kcal/h)

Software Details

PowerShareX amplifiers incorporate digital signal processing that can be configured with Bose Professional ControlSpace Designer software, Version 5.12 or later. It provides loudspeaker signal processing with presets for Bose Professional loudspeakers. It includes additional processing for array EQ, time delay, and environmental tuning.

Here are the available processing device blocks and signal flow.

6. Typical power consumption is 20%–50% lower.

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