

# Specifications

## XPA 2002

### Audio

Voltage gain.....	23x (27 dB)
Crosstalk.....	75 dB (typical) @ 1 kHz
CMRR.....	75 dB (typical) @ 1 kHz

### Audio input

Number/signal type.....	2 balanced/unbalanced
Connectors.....	(2) 3.5 mm captive screw connectors, 3 pole
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	+4 dBu (1.23 Vrms), balanced
Maximum level.....	+21 dBu (8.69 Vrms), balanced
Input sensitivity.....	+4 dBu (1.23 Vrms)
Input signal detection threshold.....	-40 dBu ±3 dB, balanced

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

### Audio output

Number/signal type.....	2 channels, 4 or 8 ohms; or 1 bridged mono, 8 ohms
Connectors.....	(1) 5 mm screw lock captive screw connector, 4 pole

**NOTE:** These connectors accept wires of 22 AWG to 12 AWG.

Load impedance.....	4 ohms (8 ohms if bridged) minimum
Amplifier type.....	Class D
Output power.....	100 watts rms per channel, 8 ohms, 1 kHz, 0.05% THD 200 watts rms per channel, 4 ohms, 1 kHz, 0.05% THD 400 watts rms (bridged mono), 8 ohms, 1 kHz, 0.05% THD
Frequency response.....	20 Hz to 20 kHz, ±1 dB
THD + Noise.....	0.1%, 20 Hz-20 kHz, 8 ohms, 3 dB below clipping
S/N.....	100 dB, 20 Hz - 20 kHz, unweighted
Damping factor.....	>100 @ 8 ohms

### Control/remote — amplifier

Control port.....	(1) 3.5 mm captive screw connector, 2 pole
Pin configurations	
Standby power control (contact closure)	Pin 1 = GND, pin 2 = standby

### General

Power supply.....	Internal
	Input: 100-240 VAC, 50-60 Hz, 1.5 A
Power consumption at 115 VAC, 60 Hz	
Typical (1/8 power).....	4 ohms (x2): 84.7 watts 8 ohms (x2): 53.4 watts
Quiescent.....	10.9 watts
Standby.....	<1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)

Power consumption at 230 VAC, 50 Hz	
Typical (1/8 power).....	4 ohms (x2): 85.6 watts 8 ohms (x2): 54.4 watts
Quiescent .....	10.9 watts
Standby .....	<1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)
Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling.....	Convection, no vents, with heat sinks on the sides
Thermal dissipation at 115 VAC, 60 Hz	
Standby .....	<1 watt (3 BTU/hr)
Idle .....	10.9 watts (37 BTU/hr)
1/8 power.....	4 ohms (x2): 34.7 watts (119 BTU/hr) 8 ohms (x2): 28.4 watts (97 BTU/hr)
Thermal dissipation at 230 VAC, 50 Hz	
Standby .....	<1 watt (3 BTU/hr)
Idle .....	10.9 watts (37 BTU/hr)
1/8 power.....	4 ohms (x2): 35.6 watts (122 BTU/hr) 8 ohms (x2): 29.4 watts (100 BTU/hr)
Protection .....	Clip limiting, thermal, short circuit, DC output
Indication .....	Limiters/Protect LED indicates the onset of clip limiting, thermal cycling, short circuit, or DC output protection
Mounting	
Rack mount .....	Yes, with included mounting brackets
Enclosure type.....	Metal
Enclosure dimensions .....	1.7" H x 17.4" W* x 12.0" D (1U high, full rack wide) (4.3 cm H x 44.2 cm W* x 30.5 cm D) *Width excludes rack ears. 19.0" (48.3 cm) W with rack ears.
Product weight.....	9.2 lbs (4.2 kg)
Shipping weight.....	12 lbs (6 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety .....	CCC, CE, c-UL, GS, KCC, PSE, S-Mark, UL Meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.
EMI/EMC .....	CE, CISPR 22 Class B, CISPR 24, C-tick, EN55103-1, EN55103-2, FCC Class B, ICES, VCCI Class B
Environmental.....	Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE
MTBF .....	200,000 hours
Warranty.....	3 years parts and labor

**NOTE:** All nominal levels are at ±10%.

**NOTE:** Specifications are subject to change without notice.

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