

# Specifications

## XPA 2001 Series

### Audio

Voltage gain	
XPA 2001-70V.....	57x (35 dB)
XPA 2001-100V.....	81x (38 dB)
Stereo channel separation.....	>75 dB @ 1 kHz
CMRR.....	75 dB @ 1 kHz (typical)

### Audio input

Number/signal type.....	1 stereo or 2 mono, balanced/unbalanced
Connectors.....	(1) 3.5 mm captive screw connector, 5 pole
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	+4 dBu (1.23 Vrms), balanced
Maximum level.....	+20 dBu (7.75 Vrms), balanced
Input sensitivity .....	+4 dBu (1.23 Vrms) if driven by one input -2 dBu (0.615 Vrms) if both inputs are summed
Input signal detection threshold.....	-40 dBu $\pm$ 3 dB, balanced

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

### Audio output

Number/signal type	
XPA 2001-70V.....	1 mono, 70 V line
XPA 2001-100V.....	1 mono, 100 V line
Connectors.....	(1) 5 mm screw lock captive screw connector, 2 pole

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

Load impedance	
XPA 2001-70V.....	25 ohms minimum
XPA 2001-100V.....	50 ohms minimum
Amplifier type.....	Class D
Output power	
XPA 2001-70V.....	200 watts rms, 70 V, 1 kHz, <0.1% THD
XPA 2001-100V.....	200 watts rms, 100 V, 1 kHz, <0.1% THD
Frequency response .....	20 Hz to 20 kHz, $\pm$ 1 dB
THD + Noise .....	<0.1% @ 1 kHz at 3 dB below clipping
S/N.....	100 dB, 20 Hz - 20 kHz, unweighted
Damping factor	
XPA 2001-70V.....	>100 @ 25 ohms
XPA 2001-100V.....	>100 @ 50 ohms
High pass filter .....	80 Hz, 12 dB per octave rolloff (switch selectable)

## Control/remote – amplifier

Control port ..... (1) 3.5 mm captive screw connector, 5 pole

Pin configurations

DC volume control (analog)..... Pin 1 = +10 VDC, 50 mA (max.), pin 2 = volume/mute (variable voltage), pin 3 = GND

Volume control voltage range... 0 V (mute) to 10 V (maximum volume)

Standby power control (contact closure) Pin 4 = GND, pin 5 = standby

## General

Power supply ..... Internal  
Input: 100-240 VAC, 50-60 Hz

Power consumption and thermal dissipation

XPA 2001-70V.....

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
<b>Active (1/8 power), all channels driven</b>	<b>70 V</b>	0.4	42.2	17.2	59	0.3	43.3	18.3	62
<b>Quiescent (idle)</b>		0.2	9.5	9.5	32	0.1	10.2	10.2	35
<b>Standby</b>		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA 2001-100V.....

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
<b>Active (1/8 power), all channels driven</b>	<b>100 V</b>	0.4	43.7	18.7	64	0.4	44.8	19.8	68
<b>Quiescent (idle)</b>		0.1	11.9	11.9	41	0.1	11.9	11.9	40
<b>Standby</b>		<0.1	<1	<1	<3	<0.1	<1	<1	<3

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 internal heat sinks

Protection ..... Clip limiting, thermal, short circuit, DC output

Indication ..... Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit

Mounting

Rack mount..... Yes, with optional 1U rack shelf

Enclosure type ..... Metal

Enclosure dimensions ..... 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)  
(4.3 cm H x 22.1 cm W x 24.1 cm D)

Product weight ..... 2.5 lbs (1.1 kg)

Vibration ..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety ..... BSMI, CCC, CE, c-UL, GS, KC Mark, PSE, S Mark, UL  
UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.

EMI/EMC..... CE, CISPR 22 Class B, C-tick, FCC Class B, ICES, KCC, VCCI Class B

Environmental..... Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE

Warranty ..... 3 years parts and labor

**NOTE:** All nominal levels are at  $\pm 10\%$ .

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

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).

081617-D24