

## Specifications

### XPA U 1004 SB

#### Audio

Voltage gain	
Stereo mode (8 ohm).....	23x (27 dB)
Stereo mode (4 ohm).....	16x (24 dB)
Bridged mono mode (16 ohm).	46x (33 dB)
Bridged mono mode (8 ohm)...	33x (30 dB)
Bridged mono mode (70V).....	57x (35 dB)
Bridged mono mode (100V).....	81x (38 dB)
CMRR.....	75 dB @ 1 kHz (typical)

#### Audio Input

Number/signal type .....	4 balanced/unbalanced
Connectors .....	(2) 5-pin 3.5mm captive connector
Impedance .....	>10k $\Omega$ ohms unbalanced/balanced, DC coupled
Nominal level .....	+4 dBu balanced
Maximum level .....	+20 dBu balanced
Input sensitivity .....	+4 dBu (1.23 Vrms)
Input signal detection threshold.....	-65 dBu +/-3 dB, balanced

#### Audio Output

Output Number/Signal Type.....	4 channel, 8 ohms or 4 ohms; or 2 bridged mono, 8 ohms, 16 ohms, 70V or 100V
Connectors.....	(2) 4 pole 5mm screw lock captive screw connectors
Load impedance	
Stereo mode (8 ohm).....	8 ohms minimum
Stereo mode (4 ohm).....	4 ohms minimum
Bridged mono mode (16 ohm).	16 ohms minimum
Bridged mono mode (8 ohm)...	8 ohms minimum
Bridged mono mode (70V).....	25 ohms minimum
Bridged mono mode (100V).....	50 ohms minimum
Amplifier type .....	Class D
Output power	
Stereo mode .....	100 Watts per channel, 4 or 8 ohms, 1 kHz, 0.1% THD
Bridged mono modes	
Low impedance.....	200 watts per channel, 8 ohms or 16 ohms, 1 kHz, 0.1% THD
High impedance .....	200 watts per channel, 70V or 100V, 1 kHz, 0.1% THD
Frequency response .....	20 Hz to 20 kHz, +/- 1 dB, 8 ohms/ 70V / 100V
THD + Noise .....	0.1% @ 1 kHz at 3 dB below clipping
S/N.....	100 dB, 20 Hz - 20 kHz, unweighted
Damping factor .....	>100 @ 8 ohms
High pass filter	
Bridged mono mode (70V or 100V) .....	80 Hz, 12 dB per octave rolloff (switch selectable)

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

# Specifications • XPA U 1004 SB (Continued)

## Control/remote

- Control port ..... (1) 3.5mm captive screw connector, 5-pole(1) 3.5mm captive screw connector, 3-pole
- Pin configuration
  - DC volume control (analog)..... Pin 1 = +10 VDC, 50 mA (max.), Pin 2 = volume/mute (variable voltage), Pin 3 = GND
  - Standby power control (contact closure)..... Pin 4 = GND, Pin 5 = Standby

## General

- Power ..... 100 VAC to 240 VAC, 50-60 Hz, internal
- Power Consumption and Thermal Dissipation

XPA U 1004 SB		115 VAC, 60 Hz				230 VAC, 50 Hz			
		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
Active (1/8 power), all channels driven	Stereo 8 Ω	0.6	66.7	16.7	57	0.4	65.4	15.4	53
	Stereo 4 Ω	0.7	71.6	21.6	74	0.4	70.3	20.3	69
	Bridged 8 Ω	0.7	69.5	19.5	67	0.4	67.8	17.8	61
	Bridged 16 Ω	0.6	65.3	15.3	52	0.4	64.3	14.3	49
	Bridged 70 V	0.6	64.7	14.7	50	0.4	63.6	13.6	46
	Bridged 100 V	0.6	63.3	13.3	45	0.4	62.2	12.2	42
Quiescent (idle)		0.1	9.2	9.2	31	0.1	9.0	9.0	31
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

- Temperature/humidity
  - Storage ..... –40 to +158°F (–40 to +70°C) / 10% to 90%, non-condensing
  - Operating ..... +32 to +122°F (0 to +50°C) / 10% to 90%, non-condensing
  - Cooling..... Convection, no vents
- Protection ..... Clip limiting, thermal, short circuit, DC output
- Indication ..... Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit.  
Power LED indicates DC output protection
- Rack mount ..... Yes with included brackets and optional rack shelf
- Enclosure..... Metal (Aluminum)
- Enclosure dimensions ..... (1U high, half rack wide)  
1.7" H x 8.7" W x 10.5" D  
43mm H x 220mm W x 267 mm D
- Product weight ..... 4.2 lbs (1.9 kg)
- Vibration ..... ISTA 1A in carton (International Safe Transport Association)
- Regulatory compliance..... CE, CEC, CISPR 22 Class B, C-tick, CUL, ENERGY STAR® qualified amplifier, European Code of Conduct, FCC Class B, ICES, KC, RoHS, UL, VCCI Class B  
UL rated for use in plenum airspaces  
meets UL 2043 for heat and smoke release  
meets UL 60065  
meets IEC 60065 for AV Equipment
- Warranty ..... 3 years parts and labor

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Everlast power supply warranty..... 7 years parts and labor

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

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