

## Specifications

### XPA U 2002 SB

#### Audio

Voltage gain	
Stereo mode (8 ohm).....	33x (30 dB)
Stereo mode (4 ohm).....	23x (27 dB)
Bridged mono mode (16 ohm).	65x (36 dB)
Bridged mono mode (8 ohm)...	46x (33 dB)
Bridged mono mode (70V).....	57x (35 dB)
Bridged mono mode (100V).....	81x (50 dB)
CMRR.....	75 dB @ 1 kHz (typical)

#### Audio Input

Number/signal type .....	2 balanced/unbalanced
Connectors .....	(1) 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.....	2 channel, 4 or 8 ohms; or 1 bridged mono, 8 ohms, 16 ohms, 70V or 100V	
Connectors.....	(1) 4 pole 5mm screw lock captive screw connector	
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).....	12.5 ohms minimum	
Bridged mono mode (100V).....	25 ohms minimum	
Amplifier type.....	Class D	
Output power		
Stereo mode .....	200 Watts per channel, 4 or 8 ohms, 1 kHz, 0.1% THD	
Bridged mono modes		
Low impedance.....	400 watts per channel, 8 or 16 ohms, 1 kHz, 0.1% THD	
High impedance .....	400 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 2002 SB (Continued)

## Control/remote

Control port ..... (1) 3.5mm captive screw connector, 5-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 2002 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	63.6	13.6	46	0.4	62.2	12.2	42
	Stereo 4 Ω	0.6	67.1	17.1	58	0.4	65.3	15.3	52
	Bridged 8 Ω	0.6	66.3	16.3	56	0.4	64.2	14.2	48
	Bridged 16 Ω	0.6	62.8	12.8	44	0.4	61.6	11.6	40
	Bridged 70 V	0.6	64.2	14.2	48	0.4	62.8	12.8	44
	Bridged 100 V	0.6	61.5	11.5	39	0.1	60.3	10.3	35
Quiescent (idle)		0.1	6.0	6.0	20	0.1	6.0	6.0	20
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 mounting brackets or 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 ..... 3.4 lbs (1.5 kg)  
 Regulatory compliance..... CE, c-UL, UL, CCC, C-tick, EN55032, EN55035, FCC Class B, ICES, KC, VCCI Class B, RoHS, WEEE  
 Meets UL 62368-1 and BSEN 62368-1.  
 UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release.  
 Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier).  
 Warranty ..... 3 years parts and labor  
 Everlast power supply warranty..... 7 years parts and labor

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