

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	>10kΩ 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 ≈ 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)
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 and IEC 60065 for AV Equipment
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.