

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, 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
Active (1/8 power), all channels driven	Stereo 8Ω	0.6	63.6	13.6	57	0.4	62.2	12.2	42
	Stereo 4Ω	0.6	67.1	17.1	58	0.4	65.3	15.3	52
	Bridged 8Ω	0.6	66.3	16.3	56	0.4	64.2	14.2	48
	Bridged 16Ω	0.6	62.8	12.8	44	0.4	61.6	11.6	40
	Bridged 70V	0.6	64.2	14.2	48	0.4	62.8	12.8	44
	Bridged 100V	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

Ambient 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
43 mm H x 220 mm W x 267 mm D

Product weight 3.4 lbs (1.5 kg)

Regulatory compliance CE, c-UL, UL, CCC, C-tick, EN55032, EN55035, Ecoefficient Level 3, 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.

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.

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