

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 3.5 mm captive connector
Impedance	>10 k Ω balanced/unbalanced, 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 5 mm 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 mode	
Low Impedance	200 watts per channel, 8 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 (70 V 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

Control/Remote

Control Port	(1) 3.5 mm captive screw, 5-pole
	(1) 3.5 mm captive screw, 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 (see the XPA U 1004 SB/ XPA U 2002 SB User Guide for details)

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 267mm D

Product Weight 4.2 lbs (1.9 kg)

Vibration ISTA 1A in carton (International Safe Transport Association)

Regulatory Compliance

Safety CE, C-tick, CUL, UL

UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065 and IEC 60065 for AV Equipment

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

Environmental Compliance ENERGY STAR® qualified amplifier, CEC, European Code of Conduct, RoHS

Warranty 3 years parts and labor

EVERLAST power supply warranty .. 7 years parts and labor

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