

Specifications

XPA U 1004 Series

Audio

Voltage gain	
XPA U 1004.....	23x (27 dB)
XPA U 1004-70V	57x (35 dB)
CMRR.....	75 dB @ 1 kHz (typical)

Audio input

Number/signal type.....	4 balanced/unbalanced
Connectors	(2) 3.5 mm captive screw connector, 5 pole
Impedance.....	>10k ohms balanced/unbalanced, DC coupled
Nominal level.....	+4 dBu, balanced
Maximum level	+20 dBu (7.75 Vrms), balanced
Input sensitivity	+4 dBu
Input signal detection threshold	-65 dBu \pm 3 dB, balanced

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

Audio output

Number/signal type	
XPA U 1004.....	4 channels, 4 or 8 ohms
XPA U 1004-70V	4 channels, 70V
Connectors.....	(2) 5 mm screw lock captive screw connector, 4-pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance	
XPA U 1004.....	4 ohms minimum
XPA U 1004-70V	50 ohms minimum
Amplifier type	Class D
Output power	
XPA U 1004.....	100 Watts per channel, 8 ohms, 1 kHz, 0.1% THD
	100 Watts per channel, 4 ohms, 1 kHz, 0.1% THD
XPA U 1004-70V	100 watts per channel, 70V, 1 kHz, 0.1% THD
Frequency response	20 Hz to 20 kHz, \pm 1 dB
THD + Noise	0.1% @ 1 kHz, at 3 dB below clipping
S/N.....	100 dB, 20 Hz - 20 kHz, unweighted
Damping factor	
XPA U 1004.....	>100 @ 8 ohms
XPA U 1004-70V	>100 @ 50 ohms

Specifications • XPA U 1004 Series (Continued)

Control/remote

Control port

XPA U 1004-70V (2) 3.5 mm captive screw connector, 2-pole

Pin configurations

Standby power control (contact closure) Pin 1 = GND, pin 2 = Standby

High pass filter (contact closure) Pin 1 = GND, pin 2 = OFF

General

Power supply Internal

Input: 100-240 VAC, 50-60 Hz

Power consumption and thermal dissipation

XPA U 1004

		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	8Ω	0.6	64.9	14.9	51	0.4	63.8	0.61	65
	4Ω	0.6	68.3	18.3	62	0.4	66.8	0.64	68
Quiescent (idle)		0.1	7.2	7.2	25	0.2	7.2	7.2	25
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 1004-70V

		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	70V	0.7	69.6	19.6	67	0.4	68.3	18.3	62
Quiescent (idle)		0.1	8.8	8.8	30	0.2	8.8	8.8	30
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.

Over Temp LED indicates when the amplifier exceeds the recommended operating temperature for optimal unit longevity.

Power LED indicates power state, DC output protection (see XPA Ultra Series User Guide for details).

Rack mount Yes, with included mounting brackets or optional rack shelf

Enclosure..... Metal

Enclosure dimensions 1.7" H x 8.7" W x 10.5" D (1U high, half rack wide)

43 mm H x 220 mm W x 267 mm D

Product weight 3.5 lbs (1.6 kg)

Specifications • XPA U 1004 Series (Continued)

Regulatory compliance.....	CE, CEC, CISPR 22 Class B, C-tick, CUL, ENERGY STAR®, European Code of Conduct, FCC Class B, ICES, RoHS, UL, UL 2043, VCCI Class B
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

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