

Specifications

XPA U 1004 Series

Audio

Voltage gain	
XPA U 1004.....	23x (27 dB)
XPA U 1004-70V	57x (35 dB)
XPA U 1004-100V	81x (38 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, 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
XPA U 1004-100V	4 channels, 100V
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
XPA U 1004-100V	100 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
XPA U 1004-100V	100 watts per channel, 100V, 1 kHz, 0.2% 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
XPA U 1004-100V	>100 @ 100 ohms

Specifications • XPA U 1004 Series (Continued)

High pass filter

- XPA U 1004-70V 80 Hz, 12 dB per octave rolloff, selectable via captive screw
- XPA U 1004-100V 80 Hz, 12 dB per octave rolloff, selectable via captive screw

Control/remote

Control port

- XPA U 1004..... (1) 3.5 mm captive screw connector, 2 pole
- XPA U 1004-70V (2) 3.5 mm captive screw connector, 2-pole
- XPA U 1004-100V (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 (70V and 100V models only)

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
	70V	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

Specifications • XPA U 1004 Series (Continued)

XPA U 1004-100V

		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	100V	0.7	69.3	19.3	66	0.4	68.0	17.4	59
	Quiescent (idle)	0.1	9.0	9.0	31	0.1	8.7	8.7	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)
- Regulatory compliance..... CE, CEC, CISPR 22 Class B, C-tick, CUL, ENERGY STAR®, European Code of Conduct, FCC Class B, ICES, KC, 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 ±10%.

NOTE: Specifications are subject to change without notice.

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

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