

## Specifications

### XPA U 1004C Series

#### Audio

Voltage gain	
Channels 1 and 2 .....	14x (23 dB)
Channels 3 and 4	
XPA U 1004C-70V .....	57x (35 dB)
CMRR.....	75 dB (typical) @ 1 kHz

#### 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 1004C-70V.....	4 channels, 2 low impedance and 2 high impedance 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	
Channels 1 and 2 .....	4 ohms minimum
Channels 3 and 4	
XPA U 1004C-70V .....	50 ohms minimum
Amplifier type .....	Class D
Output power	
Channels 1 and 2 .....	100 watts rms per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts rms per channel, 8 ohms, 1 kHz, 0.1% THD
Channels 3 and 4	
XPA U 1004C-70V .....	100 watts rms 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	
Channels 1 and 2 .....	>100 @ 8 ohms
Channels 3 and 4	
XPA U 1004C-70V .....	>100 @ 143 ohms
High pass filter	
Channels 3 and 4 .....	80 Hz, 12 dB per octave rolloff, selectable via captive screw

# Specifications • XPA U 1004C Series (Continued)

## Control/remote – amplifier

- Control port ..... (2) 3.5 mm captive screw, 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 VAC - 240 VAC, 50-60 Hz

Power consumption and thermal dissipation

XPA U 1004C-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	8Ω (ch 1-2) 70V (ch 3-4)	0.6	67.0	17.0	58	0.4	65.8	15.8	54
	4Ω (ch 1-2) 70V (ch 3-4)	0.6	68.9	18.9	64	0.4	67.6	17.6	60
Quiescent (idle)		0.1	8.2	8.2	28	0.2	8.0	8.0	27
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 ..... 4.2 lbs (1.9 kg)
- 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 ±10%.

**NOTE:** Specifications are subject to change without notice.

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).