

Specifications

XPA U 1004C Series

Audio

Voltage gain	
Channels 1 and 2	23x (27 dB)
Channels 3 and 4	
XPA U 1004C-70V	57x (35 dB)
XPA U 1004C-100V	81x (38 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
XPA U 1004C-100V.....	4 channels, 2 low impedance and 2 high impedance 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	
Channels 1 and 2	4 ohms minimum
Channels 3 and 4	
XPA U 1004C-70V	50 ohms minimum
XPA U 1004C-100V	100 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
XPA U 1004C-100V	100 watts rms per channel, 100V, 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

Specifications • XPA U 1004C Series (Continued)

Damping factor

- Channels 1 and 2 >100 @ 8 ohms
- Channels 3 and 4
 - XPA U 1004C-70V >100 @ 50 ohms
 - XPA U 1004C-100V >100 @ 100 ohms

High pass filter

- Channels 3 and 4 80 Hz, 12 dB per octave rolloff, selectable via captive screw

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

XPA U 1004C-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	8Ω (ch 1-2) 100V (ch 3-4)	0.6	67.6	17.6	60	0.4	66.3	16.3	56
	4Ω (ch 1-2) 100V (ch 3-4)	0.7	69.2	19.2	66	0.4	67.9	17.9	61
Quiescent (idle)		0.1	8.3	8.3	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

Specifications • XPA U 1004C Series (Continued)

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 $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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

4530-D2