

Specifications

XPA U 2004 FX and XPA U 2008 FX

Audio

Voltage gain

XPA U 2008 FX, XPA U 2004 FX

8-ohm mode 46x (33 dB)

4-ohm mode 33x (30 dB)

70 V mode 58x (35 dB)

100 V mode 81x (38 dB)

CMRR 75 dB (typical) @ 1 kHz

Audio Input

Number/signal type

XPA U 2004 FX..... 4 balanced/unbalanced

XPA U 2008 FX..... 8 balanced/unbalanced

Connectors

XPA U 2004 FX..... (2) 5-pin 3.5 mm captive screw connectors

XPA U 2008 FX..... (4) 5-pin 3.5 mm captive screw connectors

Impedance >10k ohms balanced/unbalanced, DC coupled

Nominal level +4 dBu, balanced

Maximum level..... +20 dBu, balanced

Input sensitivity

8 ohm/4 ohm modes..... +4 dBu (1.23 Vrms) for 400 W @ 8/4 ohms

+1 dBu (0.87 Vrms) for 200 W @ 8/4 ohms

70 V/100 V modes..... +4 dBu (1.23 Vrms)

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 2004 FX..... 4 channels, 8 ohm, 4 ohm, 70 V or 100 V

XPA U 2008 FX..... 8 channels, 8 ohm, 4 ohm, 70 V or 100 V

Connectors

XPA U 2004 FX..... (4) 2-pole, 5 mm screw-lock captive screw connectors

XPA U 2008 FX..... (8) 2-pole, 5 mm screw-lock captive screw connectors

Load impedance

8-ohm mode 8 ohms minimum

4-ohm mode 4 ohms minimum

70 V mode 12.5 ohms minimum for 400 W

100 V mode 25 ohms minimum for 400 W

Amplifier type Class D

Output power 200 W per channel (all channels driven), 4 Ω / 8 Ω / 70 V / 100 V, 1 kHz, 0.1% THD

400 W per channel (one channel driven per pair), 4 Ω / 8 Ω / 70 V / 100 V

Frequency response 20 Hz to 20 kHz, $\pm$ 1 dB, 4 Ω / 8 Ω / 70 V / 100 V

THD + Noise 0.1% @ 1 kHz, 8 ohm, at 3 dB below clipping

S/N..... 100 dB, 20 Hz - 20 kHz, unweighted

Specifications • XPA U 2004 FX and XPA U 2008 FX (Continued)

High pass filter

70 V or 100 V modes..... 80 Hz, 12 dB per octave rolloff (switch selectable)

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Control/remote — amplifier

Control port (1) 3.5 mm captive screw, 2-pole

Pin configuration

Standby power control (contact closure)

Pin 1 = GND, Pin 2 = Standby

General

Power..... 100 VAC to 240 VAC, 50-60 Hz, internal

Power consumption and thermal dissipation

XPA U 2004 FX		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	1.4	157.2	57.2	195	0.9	154.0	54.0	184
	4Ω	1.7	183.8	83.8	286	1.0	180.0	80.0	273
	70V	1.4	147.9	47.9	163	0.8	145.2	45.2	154
	100V	1.3	139.8	39.8	136	0.8	137.5	37.5	128
Quiescent (idle)		0.3	28.0	28.0	96	0.3	27.5	27.5	94
Standby		<0.2	<2	<2	<7	<0.2	<2	<2	<7

XPA U 2008 FX		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	3.0	311.7	111.7	381	1.9	305.4	105.4	360
	4Ω	3.4	361.5	161.5	551	2.1	354.3	154.3	526
	70V	2.8	295.0	95.0	324	1.8	288.7	88.7	303
	100V	2.6	274.5	74.5	254	1.6	268.7	68.7	234
Quiescent (idle)		0.5	49.1	49.1	167	0.4	47.6	47.6	162
Standby		<0.2	<3	<3	<11	<0.2	<3	<3	<11

Ambient 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..... Fan, front-to-rear, variable speed

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 2004 FX and XPA U 2008 FX User Guide* for details)

Specifications • XPA U 2004 FX and XPA U 2008 FX (Continued)

Mounting	
Rack mount	Yes, with included mounting brackets
Rear rack ear mounting	
depth	15.48" to 26.13" D (front rack rails to rear rack rails) (393 mm to 664 mm D)
Enclosure type	Metal (aluminum)
Enclosure dimensions.....	1.74" H x 17.31" W x 16.5" D (1U high, full rack wide)(44 mm H x 440 mm W x 419 mm D)(Width excludes faceplate and rack ears. Depth excludes rear rack ears.)
Product weight	
XPA U 2004 FX.....	10.1 lb. (4.6 kg)
XPA U 2008 FX.....	13.0 lb. (5.9 kg)
Regulatory compliance	CE, CEC, CISPR 22 Class B, C-Tick, c-UL, Ecoefficient Level 2, European Code of Conduct, FCC Class B, ICES, RoHS, UL, VCCI Class B meets UL 62368-1, IEC 62368-1, and EN 62368-1 for AV equipment
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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