XPA 4002-70V

70 VOLT TWO CHANNEL
POWER AMPLIFIER
400 WATTS PER CHANNEL

- Dual high powered, high impedance outputs in a 1U enclosure
- ▶ 800 watts rms output power: 2 x 400 watts @ 70 volts
- **▶ ENERGY STAR®** qualified amplifier
- ▶ Professional grade signal-to-noise and THD+N performance
- ► Extron Patented CDRS[™] Class D Ripple Suppression
- ▶ Convection cooled, fanless operation
- Power factor correction
- Ultra low inrush current eliminates need for power sequencing





The Extron XPA 4002-70V power amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. The XPA 4002-70V two channel power amplifier offers 400 watts per channel output for a large quantity of distributed 70 volt speakers or high powered paging horns.



DESCRIPTION

The Extron XTRA™ Series **XPA 4002-70V** is a 1U, convection-cooled power amplifier delivering two channels of 400 watts rms at 70 volts. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 4002-70V is an ENERGY STAR® qualified amplifier with an Extron exclusive, highly efficient, advanced Class D amplifier design. It also features patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. The XPA 4002-70V is half the size of comparable amplifiers, conserving rack space and weighing only 9 lbs (4 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- ▶ 400 watts rms per channel for low impedance speaker systems The XPA 4002-70V is designed for use in large installations for powering a large quantity of high impedance distributed speakers, or high powered paging horns.
- ▶ ENERGY STAR qualified amplifier The XPA 4002-70V is an ENERGY STAR qualified amplifier and energy efficient product that conserves energy and reduces costs.
- ▶ Professional grade signal-to-noise and THD+N performance The XPA 4002-70V delivers professional grade performance with 100 dB signal-to-noise ratio and 0.1% THD+N.
- ▶ Extron Patented CDRS Class D Ripple Suppression CDRS is an Extron Patented technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. CDRS eliminates the high frequency switching ripple characteristic of Class D amplifiers, a source of RF emissions which can interfere with sensitive AV equipment such as wireless microphones.
- ▶ Convection cooled, fanless operation The XPA 4002-70V does not require internal fans or vents for cooling, ensuring quiet, reliable operation. It generates substantially less heat than conventional power amplifiers, making it ideal for rack-mount applications.
- ▶ Ultra low inrush current no need for power sequencing Allows multiple XTRA Series amplifiers to be powered on simultaneously without overloading power circuits. This eliminates the need for power sequencing.
- ▶ Rack-mountable 1U, full rack width enclosure With the capability to deliver full-sized amplifier power in one half the size of many comparable power amplifiers, the XPA 4002-70V reduces rack space requirements for many installations.

SPECIFICATIONS

AUDIO		
Voltage gain	57x (35 dB)	
Crosstalk	75 dB (typical) @ 1 kHz	
CMRR	75 dB (typical) @ 1 kHz	
AUDIO INPUT		
Number/signal type	2 balanced/unbalanced	
Connectors	(2) 3.5 mm captive screw connectors, 3 po	le
Nominal level	+4 dBu (1.23 Vrms), balanced	
Input sensitivity	+4 dBu (1.23 Vrms)	
Input signal detection threshold	-40 dBu ±3 dB, balanced	
AUDIO OUTPUT		
Number/signal type	2 channels 70 V	
Connectors	(2) 5 mm screw lock captive screw connect	tors, 2 pole
Load impedance	12.5 ohms minimum	
Amplifier type	Class D	40/ TUD
Output power	400 watts rms per channel, 70 V, 1 kHz, 0.	I% IHD
Frequency response THD + Noise	20 Hz to 20 kHz, ±1 dB	
S/N	0.1%, 1 kHz, 3 dB below clipping 100 dB, 20 Hz - 20 kHz, unweighted	
	100 db, 20 Hz - 20 kHz, unweighted	
GENERAL		
Power supply	Internal	
D	Input: 100-240 VAC, 50-60 Hz	
Power consumption at 115 VAC, 60 Hz	70 \/ (·0\) 142 watta	
Typical (1/8 power) Quiescent	70 V (x2): 143 watts 21 watts	
Standby	<1 watt (triggered by contact closure or aft	ar 25 minutae
Startuby	[±5 minutes] with no signal)	GI ZJ IIIIIIULGS
Cooling	Convection, no vents, with heat sinks on the	e sides
Thermal dissipation at 115 VAC, 60 Hz		
Standby	<1 watt (3 BTU/hr)	
Idle	21 watts (72 BTU/hr)	
1/8 power	70 V (x2): 43 watts (147 BTU/hr)	
Protection	Clip limiting, thermal, short circuit, DC outp	ut
Enclosure dimensions	1.7" H x 17.4" W* x 12.0" D (1U high, full r	rack wide)
	(4.3 cm H x 44.2 cm W* x 30.5 cm D)	
	*Width excludes rack ears. 19.0" (48.3 cm) W with rack
	ears.	
Product weight	9.2 lbs (4.2 kg)	
Regulatory compliance Safety	CE A III III	
Saidly	CE, c-UL, UL Meets UL 60065, IEC 60065, and BSEN 60	1065 for AV
	equipment.	OUU IUI AV
EMI/EMC	CE, CISPR 22 Class B, CISPR 24, C-tick, EN	155103-1
LIVII/ LIVIO	EN55103-2, FCC Class B, ICES, VCCI Class	,
MTBF	200,000 hours	
Warranty	3 years parts and labor	
Model Version Description		Part number
XPA 4002-70V 70 V Two Channel AMP -	400 Watts-Chan	60-1245-01
For complete specifications, please go to www.extron.com		

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Anaheim, CA • Raleigh, NC • Dallas, TX • Washington, DC • London • Paris • Amersfoort, NL Frankfurt • Dubai • Singapore • Seoul • Shanghai • Beijing • Tokyo • Bangalore

UNITED STATES
+800.633.9876
Inside USA/Canada
+1.714.491.1500

EUROPE+800.3987.6673
Inside Europe
+31.33.453.4040

ASIA +800.7339.8766 Inside Asia +65.6383.4400 **MIDDLE EAST** +971.4.2991800