

XPA 2002-70V

TWO CHANNEL POWER AMPLIFIER
200 WATTS PER CHANNEL

- Dual high powered, high impedance outputs in a 1U enclosure
- 400 watts rms output power:
2 x 200 watts @ 70 volts
- ENERGY STAR® qualified
- Professional grade signal-to-noise and THD performance
- Extron Patented CDRS™ - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - eliminates need for power sequencing
- 1U full rack enclosure



The Extron XPA 2002-70V is a power amplifier that 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 2002-70V two channel 70 volt power amplifier offers 200 watts per channel output, and is ideal for high impedance distributed speaker systems utilizing a large number of 70 volt speakers.



Extron. Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron XTRA Series **XPA 2002-70V** is a full rack-sized, two channel power amplifier designed for high-powered, professional integration projects. This professional grade amplifier delivers 400 watts of continuous output power. The XPA 2002-70V two channel 70 volt power amplifier offers 200 watts per channel output, a 100 dB signal-to-noise ratio, and THD of less than 0.1%. This ENERGY STAR qualified amplifier features an Extron exclusive, highly efficient, advanced Class D amplifier design with patented CDRS - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. This Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- 200 watts rms per channel for high impedance speaker systems**
 The XPA 2002-70V is designed for high impedance distributed speaker systems utilizing a large number of 70 volt speakers.
- ENERGY STAR qualified** – The XPA 2002-70V is an ENERGY STAR qualified amplifier and energy efficient product that conserves energy and reduces costs.
- Professional grade signal-to-noise and THD performance** – The XPA 2002-70V delivers professional grade performance with 100 dB signal-to-noise ratio and THD of less than 0.1%.
- 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 A/V equipment such as wireless microphones.
- Convection cooled, fanless operation** – The XPA 2002-70V does not require internal fans or vents for cooling, ensuring quiet, reliable operation. It generates substantially less heat than similar power amplifier designs.
- Ultra low inrush current - no need for power sequencing** – Allows many XTRA Series amplifiers to be powered on simultaneously without overloading power circuits. This eliminates the need for power sequencing.
- Power factor correction** – The XPA 2002-70V features power factor correction technology that smoothes out the high peak currents of the amplifier's current draw, thus minimizing the presence of high frequency harmonics on the AC power line, and therefore preventing audible artifacts from being transmitted to other audio equipment in the system.
- 1U full rack enclosure** – With the capability to deliver full-sized amplifier power in one half the size of many comparable power amplifiers, the XPA 2002-70V reduces rack space requirements for many installations.

SPECIFICATIONS

AUDIO		
Voltage gain	57x (35 dB)	
Crosstalk	>100 dB @ 1 kHz	
CMRR	75 dB @ 1 kHz (typical)	
AUDIO INPUT		
Number/signal type	2 mono, balanced/unbalanced	
Connectors	(2) 3.5 mm captive screw connectors, 3 pole	
Impedance	>10k ohms unbalanced/balanced, DC coupled	
Nominal level	+4 dBu (1.23 Vrms), balanced	
Maximum level	+20 dBu (7.75 Vrms), balanced	
Input sensitivity	+4 dBu (1.23 Vrms)	
AUDIO OUTPUT		
Number/signal type	2 mono, 70 V lines	
Connectors	(2) 5 mm screw lock captive screw connectors, 2 pole	
Load impedance	25 ohms minimum	
Amplifier type	Class D	
Output power	200 watts rms per channel, 70 V, 1 kHz, <0.1% THD	
Frequency response	20 Hz to 20 kHz, ±1 dB	
THD + Noise	<0.1% @ 1 kHz at 3 dB below clipping	
S/N	100 dB, 20 Hz - 20 kHz, unweighted	
High pass filter	80 Hz, 12 dB per octave rolloff for all 70 V line outputs (switch selectable)	
CONTROL/REMOTE — AMPLIFIER		
Control port	(1) 3.5 mm captive screw connector, 2 pole	
GENERAL		
Power	100 VAC to 240 VAC, 50-60 Hz, internal	
Typical	85 watts (1/8 power [pink noise] at 8 ohms)	
Quiescent	30 watts	
Standby	<1 watt (triggered by contact closure or after 1 hour with no signal)	
Cooling	Convection, no vents, with heat sinks on the sides	
Thermal dissipation		
Standby	<1 watt (3 BTU/hr)	
Idle	30 watts (102 BTU/hr)	
1/8 power (pink noise)	70 V (x 2): 38 watts (129 BTU/hr)	
Protection	Clip limiting, thermal, short circuit, DC output	
Mounting		
Rack mount	Yes, with included mounting brackets	
Enclosure dimensions	1.7" H x 17.4" W* x 12.0" D (1U high, full 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	8.0 lbs (3.6 kg)	
Regulatory compliance		
Safety	CE, c-UL, UL Meets UL 60065, IEC 60065, and BSEN 60065 for A/V equipment.	
EMI/EMC	CE, CISPR 22 Class B, C-tick, FCC Class B, ICES, VCCI Class B	
Environmental	Complies with the appropriate requirements of CEC, EU code of conduct, RoHS, WEEE	
Warranty	3 years parts and labor	
Model	Version Description	Part number
XPA 2002-70V	70 Volt Two Channel Power Amplifier	60-883-02

Specifications are subject to change without notice.



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