

XPA 2003C

THREE CHANNEL COMBO
POWER AMPLIFIER
200 WATTS PER CHANNEL

- ▶ Low and high impedance outputs in a 1U enclosure
- ▶ 600 watts rms output power:
 - 2 x 200 watts @ 4 ohms;
 - 2 x 100 watts @ 8 ohms
 - 1 x 200 watts @ 70 volts or 100 volts
- ▶ ENERGY STAR® qualified and UL verified
- ▶ 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



XPA 2003C

The Extron XPA 2003C 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 unique XPA 2003C three channel power amplifier offers two channels of 200 watts into 4 ohms plus a third channel with 200 watts into a 70 volt or 100 volt line, and is ideal for both speech reinforcement over distributed speaker systems and stereo material through program speakers.



Extron. Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron XTRA™ Series **XPA 2003C** is a 1U, convection-cooled, three channel power amplifier delivering two channels of 200 watts into 4 ohms, plus 200 watts at 70 or 100 volts. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 2003C is an ENERGY STAR® qualified and UL verified 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. This unique amplifier conserves rack space and weighs only 9 lbs (4 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- ▶ **200 watts rms per channel for low and high impedance speaker systems** – The unique XPA 2003C is designed to support both speech reinforcement over distributed speaker systems and stereo material through program speakers.
- ▶ **ENERGY STAR qualified and UL verified** – The XPA 2003C is an ENERGY STAR qualified amplifier and energy efficient product that conserves energy and reduces costs. It has earned the Energy Efficiency Certification from UL Environment to verify that stringent ENERGY STAR qualifications have been met.
- ▶ **Professional grade signal-to-noise and THD+N performance** – The XPA 2003C 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 A/V equipment such as wireless microphones.
- ▶ **Convection cooled, fanless operation** – The XPA 2003C 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.
- ▶ **Power factor correction** – The XPA 2003C 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.
- ▶ **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 2003C reduces rack space requirements for many installations.

SPECIFICATIONS

AUDIO		
Voltage gain		
Channels 1 and 2		23x (27 dB)
Channel 3		
XPA 2003C-70V		57x (35 dB)
XPA 2003C-100V		81x (38 dB)
AUDIO INPUT		
Number/signal type		3 balanced/unbalanced
Connectors		(3) 3.5 mm captive screw connectors, 3 pole
AUDIO OUTPUT		
Number/signal type		
XPA 2003C-70V		2 channels, 4 or 8 ohms 1 channel, 70 V
XPA 2003C-100V		2 channels, 4 or 8 ohms 1 channel, 100 V
Connectors		(1) 5 mm screw lock captive screw connector, 4 pole (1) 5 mm screw lock captive screw connectors, 2 pole
Amplifier type		Class D
Output power		
Channel 1 or 2 (8 ohm)		100 watts rms per channel, 1 kHz, 0.1% THD
Channel 1 or 2 (4 ohm)		200 watts rms per channel, 1 kHz, 0.1% THD
Channel 3		
XPA 2003C-70V (70 V output)		200 watts rms per channel, 70 V, 1 kHz, 0.1% THD
XPA 2003C-100V (100 V output)		200 watts rms per channel, 100 V, 1 kHz, 0.1% THD
Frequency response		20 Hz to 20 kHz, ±1 dB
THD + Noise		
Channel 1 or 2		0.1% @ 20 Hz to 20 kHz, 8 ohms, 3 dB below clipping
Channel 3		0.1%, 1 kHz, 3 dB below clipping
S/N		100 dB, 20 Hz - 20 kHz, unweighted
GENERAL		
Power		100 VAC to 240 VAC, 50-60 Hz, 1.5 A, internal power supply
Power consumption		
Typical (1/8 power)		
XPA 2003C-70V		4 ohms (x2) + 70 V: 120 watts 8 ohms (x2) + 70 V: 90 watts
XPA 2003C-100V		4 ohms (x2) + 100 V: 120 watts 8 ohms (x2) + 100 V: 90 watts
Quiescent		18 watts
Standby		<1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)
Cooling		Convection, no vents, with heat sinks on the sides
Thermal dissipation		
Standby		<1 watt (3 BTU/hr)
Idle		18 watts (61 BTU/hr)
1/8 power (pink noise)		
XPA 2003C-70V		4 ohms (x2) + 70 V: 45 watts (153 BTU/hr) 8 ohms (x2) + 70 V: 40 watts (136 BTU/hr)
XPA 2003C-100V		4 ohms (x2) + 100 V: 45 watts (153 BTU/hr) 8 ohms (x2) + 100 V: 40 watts (136 BTU/hr)
Protection		Clip limiting, thermal, short circuit, DC output
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		9.2 lbs (4.2kg)
Model	Version Description	Part number
XPA 2003C-70V	70 V Three Channel Combo Power Amp	60-848-01
XPA 2003C-100V	100 V Three Channel Combo Power Amp	60-848-11

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.



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