

XPA 2002

TWO CHANNEL POWER AMPLIFIER
200 WATTS PER CHANNEL

- ▶ Dual channel, high powered amplifier in a 1U enclosure
- ▶ 400 watts rms output power:
 - 2 x 200 watts @ 4 ohms;
 - 2 x 100 watts @ 8 ohms
- ▶ 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



The Extron XPA 2002 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 2002 two channel power amplifier offers 200 watts per channel output for low impedance applications.



Extron. Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron XTRA™ Series **XPA 2002** is a 1U, convection-cooled power amplifier delivering two channels of 200 watts rms into 4 ohms or 100 watts into 8 ohms. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 2002 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. The XPA 2002 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

- ▶ **200 watts rms per channel for low impedance speaker systems** – The XPA 2002 is designed for dual channel, high-powered program audio speaker systems in conference room or lecture hall applications.
- ▶ **ENERGY STAR qualified and UL verified** – The XPA 2002 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 2002 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 2002 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 2002 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 2002 reduces rack space requirements for many installations.

SPECIFICATIONS

| AUDIO | | |
|----------------------------------|---|-------------|
| Voltage gain | 23x (27 dB) | |
| Crosstalk | >74 dB (typical) @ 1 kHz | |
| CMRR | 75 dB @ 1 kHz (typical) | |
| AUDIO INPUT | | |
| Number/signal type | 2 balanced/unbalanced | |
| Connectors | (2) 3.5 mm captive screw connectors, 3 pole | |
| 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, 4 or 8 ohms; or 1 bridged mono, 8 ohms | |
| Connectors | (1) 5 mm screw lock captive screw connector, 4 pole | |
| Load impedance | 4 ohms (8 ohms if bridged) minimum | |
| Amplifier type | Class D | |
| Output power | 100 watts rms per channel, 8 ohms, 1 kHz, 0.05% THD 200 watts rms per channel, 4 ohms, 1 kHz, 0.05% THD 400 watts rms (bridged mono), 8 ohms, 1 kHz, 0.05% THD | |
| Frequency response | 20 Hz to 20 kHz, ±1 dB | |
| THD + Noise | 0.1%, 20 Hz-20 kHz, 8 ohms, 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) 4 ohms (x2): 82 watts Quiescent 23 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 23 watts (78 BTU/hr) 1/8 power (pink noise) 4 ohms (x2): 31 watts (105 BTU/hr) 8 ohms (x2): 26 watts (88 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 | 9.2 lbs (4.2 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, CISPR 24, C-tick, EN55103-1, EN55103-2, FCC Class B, ICES, VCCI Class B Environmental Complies with the appropriate requirements of CEC, EU code of conduct, RoHS, WEEE | |
| MTBF | 200,000 hours | |
| Warranty | 3 years parts and labor | |
| Model | Version Description | Part number |
| XPA 2002 | Two Channel Power Amplifier | 60-563-01 |

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



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