# XPA 1002 Series

# TWO CHANNEL AMPLIFIERS 100 WATTS PER CHANNEL





The Extron XTRA™ Series XPA 1002, XPA 1002 Plus, XPA 1002-70V, and XPA 1002-100V are half rack 1U, convection cooled power amplifiers that deliver two channels of 100 watts rms. These professional grade amplifiers are ENERGY STAR® qualified and feature an Extron exclusive, highly efficient Class D amplifier design. The XPA 1002 models are ideal for amplification of voice or program audio content in low or high impedance speaker systems.

- XPA 1002:
  2 x 100 watts @ 4 ohms,
  2 x 60 watts @ 8 ohms, or
  1 x 200 watts @ 8 ohms (bridged)
- XPA 1002 Plus:
   2 x 100 watts @ 4 or 8 ohms, or
   1 x 200 watts @ 8 ohms (bridged)
- ➤ XPA 1002-70V: 2 x 100 watts @ 70 volts
- ➤ XPA 1002-100V: 2 x 100 watts @ 100 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
- Ultra low inrush current eliminates need for power sequencing
- ► Power factor correction removes harmonic content on AC line
- ▶ Rack-mountable 1U, half rack width enclosure
- UL 2043 plenum rated when used with optional Flexible Conduit Adapter Kit



#### DESCRIPTION

The Extron XTRA Series XPA 1002 is a half rack 1U, convection cooled power amplifier delivering two channels of 100 watts per channel. This series includes low and high impedance versions to cover a variety of application needs. The XPA 1002 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 1002 is housed in a half rack width metal enclosure, conserving rack space and weighing only 2.5 lbs (1.1 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

#### XPA 1002 and XPA 1002 Plus

The XPA 1002 two channel amplifier delivers 100 watts rms per channel into 4 ohms or 60 watts rms per channel into 8 ohms, while the XPA 1002 Plus delivers 100 watts rms per channel into 4 or 8 ohms. Both models feature a bridged mode that provides a single 200 watt output into 8 ohms. The XPA 1002 and XPA 1002 Plus are ideal for amplification of voice or program audio content to stereo speakers, or two sets of 8 ohm ceiling speakers in a dual zone application. The professional grade amplifiers also feature a 105 dB signal-to-noise ratio and 0.05% THD+N specifications.

The 4 ohm / 8 ohm models also feature remote control capability for volume adjustment and muting.

#### XPA 1002-70V and XPA 1002-100V

The XPA 1002-70V and XPA 1002-100V two channel amplifiers deliver 100 watts rms per channel for 70 volt or 100 volt high impedance speaker systems in voice reinforcement and distributed audio applications. The professional grade amplifiers feature a 100 dB signal-to-noise ratio and 0.1% THD+N specifications. The XPA 1002-70V and XPA 1002-100V also include a switch selectable, high pass filter that rolls off frequencies below 80 Hz to prevent saturation of speaker transformers.

## **Energy Efficient Amplifier with Auto Power-Down**

The XPA 1002 ENERGY STAR qualified amplifier is an energy efficient product that conserves energy and reduces costs. With an auto power-down feature that automatically places the amplifier into standby after 25 minutes of inactivity, it consumes just 10 watts when idle and less than 1 watt in standby mode.

The XPA 1002 accepts balanced and unbalanced input signals and includes recessed, detented level controls located on the rear panel to prevent tampering. These controls allow for adjusting audio system gain structure, or setting individual levels for each zone. Additionally, the XPA 1002 includes multiple protection circuits that momentarily activate when an abnormal condition, such as overheating, is detected. An advanced, automatic clip limiter protects speakers from clipping distortion.

# **FEATURES**

- ▶ ENERGY STAR qualified amplifier The XPA 1002 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 1002 delivers professional grade performance. The XPA 1002 4 ohm / 8 ohm models feature 105 dB signal-to-noise ratio and THD of less than 0.05%, while the XPA 1002-70V and XPA 1002-100V feature 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.
- ▶ Convection cooled, fanless operation The XPA 1002 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 Allows multiple XTRA Series amplifiers to be powered simultaneously without overloading power circuits. This eliminates the need for power sequencing.
- Power factor correction removes harmonic content on AC lines
- ▶ Rack-mountable 1U, half rack width enclosure
- ▶ UL 2043 plenum rated when used with optional Flexible Conduit Adapter Kit (70-228-02)
- ▶ Auto power-down with fast power-up
- ▶ Rear panel recessed, detented level controls
- ▶ Automatic clip limiter Detects actual onset of clipping by comparing input and output waveforms.
- Multiple protection circuits Activate during output shorts, thermal overload, or DC faults to prevent damage to the amplifier and speakers.
- ▶ Remote standby port Enables the XPA 1002 to be remotely powered down when not in use, reducing operating cost.
- ▶ Remote volume and mute control port In basic installations without control systems, this port allows the XPA 1002 4 ohm / 8 ohm models to be remotely controlled using the optional Extron VCM 100 (70-396-11) or VCM 200 (70-883-02) analog volume and mute controller or VC 50 (70-530-02) analog volume controller
- ▶ High pass filter for high impedance model This switch selectable filter, available on 70 and 100 volt models, rolls off frequencies below 80 Hz to prevent saturation of speaker transformers.
- ▶ Bridgeable outputs for low impedance models
- ▶ Front and rear-mounted signal and protection indication LEDs – Provides visual indication of input signal presence and protection circuit activation from both sides of an equipment rack.
- ➤ Front panel over-temperature LED Provides visual indication that the enclosure temperature has exceeded the optimal value, well in advance of the onset of thermal protection circuitry.
- Highly reliable, energy efficient internal universal power supply

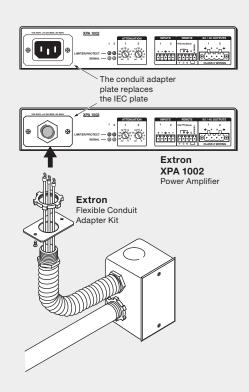


### Plenum Rated When Used with Optional Flexible Conduit Adapter Kit

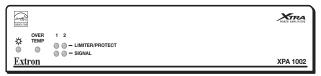
In many rooms, the space above the ceiling is used as a return air plenum. To ensure safety from potentially harmful heat and smoke release in the event of a fire, AV products installed in ceilings of this type must comply with safety codes and be specifically rated for use in plenum environments. When used with the optional Flexible Conduit Adapter Kit, part # 70-228-02, the XPA 1002 Series power amplifiers are UL 2043 rated to conform to heat and smoke release codes for plenum environments.

The XPA 1002 Series amplifiers feature a built-in power supply with a modular power connection. In a rack installation, these amplifiers would be powered from an AC receptacle. However, when the amplifier is to be permanently situated above a drop ceiling, the XPA 1002 Series can be directly hard-wired for AC power when the optional Flexible Conduit Adapter Kit is used in place of a conventional power cord. With this kit, the wiring is encased in flexible conduit, which connects directly to the amplifier and a local junction box. This can simplify installation without the necessity to provide an AC receptacle above the drop ceiling. As with the XPA 1002 Series, the Flexible Conduit Adapter Kit is plenum rated and meets UL 2043 for smoke and heat release.

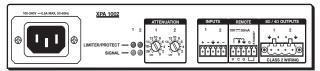
Installing an amplifier above a drop ceiling offers flexibility for integrators wanting to conserve rack space and achieve a clean, streamlined installation free of visible cable runs. An amplifier situated above the ceiling is also concealed from view, which reduces the possibility of theft.



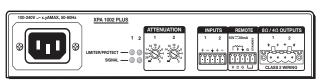
# PANEL DRAWINGS



XPA 1002 - Front

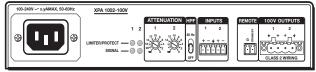


XPA 1002 - Back



LIMITER/PROTECT OF SIGNAL OF SIGNAL

XPA 1002-70V - Back



XPA 1002-100V - Back

# **SPECIFICATIONS**

#### XPA 1002 and XPA 1002 Plus

XPA 1002 and XPA	1002 F103					
AUDIO						
Voltage gain						
XPA 1002	16x (24 dB)					
XPA 1002 Plus	23x (27dB)					
AUDIO INPUT						
Number/signal type	1 stereo or 2 mono, balanced/unbalanced					
Connectors	(1) 3.5 mm captive screw connector, 5 pole					
Nominal level	+4 dBu (1.23 Vrms), balanced					
Maximum level	+20 dBu (7.75 Vrms), balanced					
Input signal detection thre	shold -40 dBu ±3 dB, balanced					
AUDIO OUTPUT						
Number/signal type	1 stereo, 4 or 8 ohm direct					
Connectors	(1) 5 mm screw lock captive screw connector, 4 pole					
Load impedance	4 ohm minimum					
Output power						
XPA 1002	60 watts rms per channel, 8 ohms, 1 kHz, <0.05% THD					
	100 watts rms per channel, 4 ohms, 1 kHz, <0.05% THD					
XPA 1002 Plus	100 watts rms per channel, 8 ohms, 1 kHz, <0.05% THD					
	100 watts rms per channel, 4 ohms, 1 kHz, <0.05% THD					
Frequency response	20 Hz to 20 kHz, ±1 dB					
THD + Noise	0.05% @ 20 Hz - 20 kHz, 8 ohms, at 3 dB below clipping					
S/N	105 dB, 20 Hz - 20 kHz, unweighted					
GENERAL						
Power supply	Internal					
	Input: 100-240 VAC, 50-60 Hz, 0.5 A					
Power consumption						
Typical (1/8 power)	4.1. (2) 42. 11					
XPA 1002	4 ohms (x2): 43 watts					
V/DA 4000 DI	8 ohms (x2): 30 watts					
XPA 1002 Plus	4 ohms (x2): 46 watts					
Ouissant	8 ohms (x2): 45 watts					
Quiescent XPA 1002	10 watts					
XPA 1002 XPA 1002 Plus	14 watts					
Standby	<1 watt (triggered by contact closure or after 25 minutes [± 5 minutes] with no signal)					
Cooling	Convection, no vents, with internal heat sinks					
Protection	Clip limiting, thermal, short circuit, DC output					
Enclosure dimensions	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)					
	(4.3 cm H x 22.1 cm W x 24.1 cm D)					
Product weight	2.5 lbs (1.1 kg)					
Regulatory compliance	· -					
Safety	CCC, CE, c-UL, GS, KC Mark, PSE, S Mark, UL, BSMI					
	UL rated for use in plenum airspaces: meets UL 2043 for					
	heat and smoke release; meets UL 60065, IEC 60065,					
	and BSEN 60065 for AV equipment.					
Environmental	Complies with the appropriate requirements of ENERGY					
	STAR® (ENERGY STAR qualified amplifier), EU code of					
	conduct, RoHS, WEEE					
Model	Version Description Part number					
XPA 1002	60 Watts Per Ch @ 8 Ohms 60-849-01					
XPA 1002 Plus	100 Watts Per Ch @ 8 Ohms 60-849-21					
	For PS 124 & Select XTRA Series Amps 70-228-02					
For complete specifications, please go to www.extron.com						

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

#### XPA 1002-70V and XPA 1002-100V

Voltage gain         XPA 1002-70V         57x (35 dB)           XPA 1002-100V         81x (38 dB)           AUDIO INPUT           Number/signal type         2 balanced/unbalanced           Connectors         (1) 3.5 mm captive screw connector, 5 pole           Nominal level         +4 dBu (1.23 Vrms), balanced           Maximum level         +20 dBu (7.75 Vrms), balanced           Input signal detection threshold         -40 dBu ±3 dB, balanced           AUDIO OUTPUT           Number/signal type         XPA 1002-70V           XPA 1002-70V         2 mono, 70 V line           XPA 1002-100V         2 mono, 100 V line           Connectors         (1) 5 mm screw lock captive screw connector, 4 pole           Output power         XPA 1002-70V           XPA 1002-70V         100 watts rms per channel, 70 V, 1 kHz, <0.1% THD           XPA 1002-100V         100 watts rms per channel, 100 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 (switch selectable)           GENERAL           Power consumption           Typical (1/8 power)         XPA 1	AUDIO		
XPA 1002-100V			
Number/signal type		E7v /0E dD)	
Number/signal type			
Number/signal type		81X (38 UB)	
Connectors			
Nominal level +4 dBu (1.23 Vrms), balanced  Maximum level +20 dBu (7.75 Vrms), balanced Input signal detection threshold -40 dBu ±3 dB, balanced  AUDIO OUTPUT  Number/signal type XPA 1002-70V 2 mono, 70 V line Connectors (1) 5 mm screw lock captive screw connector, 4 pole Output power XPA 1002-70V 100 watts rms per channel, 70 V, 1 kHz, <0.1% THD XPA 1002-100V 100 watts rms per channel, 100 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 (switch selectable)  GENERAL  Power consumption Typical (1/8 power) XPA 1002-70V 70 V (x2): 41.8 watts Quiescent 11.4 watts Standby 11.4 watts Standby 11.4 watts Cooling Convection, no vents, with internal heat sinks Protection Clip limiting, thermal, short circuit, DC output Enclosure dimensions 1.7" Hx 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, EC 60065, and BSEN 60065 for AV equipment. Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE	• "		
Maximum level   +20 dBu (7.75 Vrms), balanced			
Input signal detection threshold		* **	
Number/signal type   XPA 1002-70V   2 mono, 70 V line   XPA 1002-100V   2 mono, 100 V line   XPA 1002-100V   100 watts rms per channel, 70 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-10V   XP			
Number/signal type   XPA 1002-70V   2 mono, 70 V line   XPA 1002-100V   2 mono, 100 V line   XPA 1002-100V   100 watts rms per channel, 70 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 70 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   100 watts rms per channel, 100 V, 1 kHz, <0.1% THD   XPA 1002-100V   XPA 1002 + 20 kHz, ±1 dB   XPA 2 dB   XPA 3 dB		iiu -40 ubu ±3 ub, Dalanceu	
XPA 1002-70V         2 mono, 70 V line           XPA 1002-100V         2 mono, 100 V line           Connectors         (1) 5 mm screw lock captive screw connector, 4 pole           Output power         XPA 1002-70V           XPA 1002-70V         100 watts rms per channel, 70 V, 1 kHz, <0.1% THD           XPA 1002-100V         100 watts rms per channel, 100 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 (switch selectable)           GENERAL           Power supply         Internal Input: 100-240 VAC, 50-60 Hz           Power consumption         Typical (1/8 power)           XPA 1002-70V         70 V (x2): 41.8 watts           Quiescent         11.4 watts           Standby         <1 watt (triggered by contact closure or after 25 minutes) [±5 minutes] with no signal)           Cooling         Convection, no vents, with internal heat sinks           Protection         Clip limiting, thermal, short circuit, DC output           Enclosure dimensions         1.7" Hx 8.7" w x 9.5" D (1U high, half rack wide)           4.3 cm H x 22.1 cm W x 24.1 cm D)         CE, c-UL, UL           UL rat			
XPA 1002-100V         2 mono, 100 V line           Connectors         (1) 5 mm screw lock captive screw connector, 4 pole           Output power         XPA 1002-70V         100 watts rms per channel, 70 V, 1 kHz, <0.1% THD			
Connectors (1) 5 mm screw lock captive screw connector, 4 pole  Output power  XPA 1002-70V 100 watts rms per channel, 70 V, 1 kHz, <0.1% THD  XPA 1002-100V 100 watts rms per channel, 100 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 (switch selectable)  GENERAL  Power supply Internal Input: 100-240 VAC, 50-60 Hz  Power consumption  Typical (1/8 power)  XPA 1002-70V 70 V (x2): 41.8 watts  Standby 11.4 watts  Standby 11.4 watts  Standby 11.4 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)  Cooling Convection, no vents, with internal heat sinks  Protection Clip limiting, thermal, short circuit, DC output  Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)  (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance  Safety CE, c-UL, UL  UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number  Model Version Description Part number  NPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01  VPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-01			
Output power           XPA 1002-70V         100 watts rms per channel, 70 V, 1 kHz, <0.1% THD           XPA 1002-100V         100 watts rms per channel, 100 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 (switch selectable)           GENERAL           Power supply         Internal Input: 100-240 VAC, 50-60 Hz           Power consumption           Typical (1/8 power)         YPA 1002-70V           XPA 1002-70V         70 V (x2): 41.8 watts           Quiescent         11.4 watts           Standby         <1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)           Cooling         Convection, no vents, with riternal heat sinks           Protection         Clip limiting, thermal, short circuit, DC output           Enclosure dimensions         1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)           (4.3 cm H x 22.1 cm W x 24.1 cm D)           Product weight         2.5 lbs (1.1 kg)           Regulatory compliance           Safety         CE, c-UL, UL         UL rated for use in plenum airspaces: meets UL 2043 for heat and smo		,	
XPA 1002-70V         100 watts rms per channel, 70 V, 1 kHz, <0.1% THD           XPA 1002-100V         100 watts rms per channel, 100 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 (switch selectable)           GENERAL           Power supply           Internal           Input: 100-240 VAC, 50-60 Hz           Power consumption           Typical (1/8 power)           XPA 1002-70V         70 V (x2): 41.8 watts           Quiescent         11.4 watts           Standby         <1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)           Cooling         Convection, no vents, with internal heat sinks           Protection         Clip limiting, thermal, short circuit, DC output           Enclosure dimensions         1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)           (4.3 cm H x 22.1 cm W x 24.1 cm D)         2.5 lbs (1.1 kg)           Regulatory compliance         Safety         CE, c-UL, UL           UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.		(1) 5 mm screw lock captive screw connector, 4 pole	
XPA 1002-100V         100 watts rms per channel, 100 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 (switch selectable)           GENERAL           Power supply           Internal           Input: 100-240 VAC, 50-60 Hz           Power consumption           Typical (1/8 power)           XPA 1002-70V         70 V (x2): 41.8 watts           Quiescent         11.4 watts           Standby         <1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)           Cooling         Convection, no vents, with internal heat sinks           Protection         Clip limiting, thermal, short circuit, DC output           Enclosure dimensions         1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)           (4.3 cm H x 22.1 cm W x 24.1 cm D)         2.5 lbs (1.1 kg)           Regulatory compliance         Safety         CE, c-UL, UL           UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.           Environmental         Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qual		100 watto rmo por obannol 70 V 1 kHz <0.19/ TUD	
Frequency response THD + Noise 3.0.1% @ 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 (switch selectable)  GENERAL Power supply Internal Input: 100-240 VAC, 50-60 Hz  Power consumption Typical (1/8 power) XPA 1002-70V Quiescent 11.4 watts Standby 4.1 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal) Cooling Convection, no vents, with internal heat sinks Protection Cilp limiting, thermal, short circuit, DC output Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D) Product weight Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, iEC 60065, and BSEN 60065 for AV equipment. Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11			
THD + Noise			
S/N High pass filter 80 Hz, 12 dB per octave rolloff (switch selectable)  GENERAL Power supply Internal Input: 100-240 VAC, 50-60 Hz  Power consumption Typical (1/8 power) XPA 1002-70V Quiescent 11.4 watts Standby	11. 7		
High pass filter  BO Hz, 12 dB per octave rolloff (switch selectable)  GENERAL  Power supply  Internal Input: 100-240 VAC, 50-60 Hz  Power consumption Typical (1/8 power)  XPA 1002-70V  Quiescent  11.4 watts Standby  Cooling  Convection, no vents, with internal heat sinks  Protection  Enclosure dimensions  1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight  Regulatory compliance Safety  CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental  Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model  Version Description  Part number  XPA 1002-70V  70 V Two Channel Amp - 100 Watts/Ch  60-1302-01  XPA 1002-100V  100 V Two Channel Amp - 100 Watts/Ch  60-1302-11		11 0	
Power supply Internal Input: 100-240 VAC, 50-60 Hz  Power consumption Typical (1/8 power) XPA 1002-70V 70 V (x2): 41.8 watts Quiescent 11.4 watts Standby 41.4 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal) Cooling Convection, no vents, with internal heat sinks Protection Clip limiting, thermal, short circuit, DC output Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number of Conduct and Conduct	****		
Power supply Internal Input: 100-240 VAC, 50-60 Hz  Power consumption Typical (1/8 power) XPA 1002-70V Quiescent Standby Tybe to the total support of the to	• .	oo iz, iz ab poi ootavo ronon (omton ootootable)	
Power consumption		Internal	
Power consumption Typical (1/8 power)  XPA 1002-70V Quiescent 11.4 watts Standby 11.4 watts Standby 21 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal)  Cooling Convection, no vents, with internal heat sinks  Protection Clip limiting, thermal, short circuit, DC output  Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number  XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 XPA 1002-100V	Power supply		
Typical (1/8 power)  XPA 1002-70V  Quiescent  11.4 watts  Standby	Power consumption	Input. 100-240 VAO, 30-00 Hz	
XPA 1002-70V Quiescent 11.4 watts Standby  Cooling Convection, no vents, with internal heat sinks Protection Clip limiting, thermal, short circuit, DC output Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment. Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-11			
Quiescent Standby Stan	, , , ,	70 V (x2): 41.8 watts	
Standby  Standby 41 watt (triggered by contact closure or after 25 minutes [±5 minutes] with no signal) Cooling Convection, no vents, with internal heat sinks Protection Clip limiting, thermal, short circuit, DC output Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D) Product weight 2.5 lbs (1.1 kg) Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment. Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 KPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11			
Cooling Convection, no vents, with internal heat sinks  Protection Clip limiting, thermal, short circuit, DC output  Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number  XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01  XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11	Standby	<1 watt (triggered by contact closure or after 25 minutes	
Protection Clip limiting, thermal, short circuit, DC output  Enclosure dimensions 1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D)  Product weight 2.5 lbs (1.1 kg)  Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11	,	[±5 minutes] with no signal)	
1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)	Cooling	Convection, no vents, with internal heat sinks	
Product weight         2.5 lbs (1.1 kg)           Regulatory compliance         CE, c-UL, UL           Safety         UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.           Environmental         Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE           Model         Version Description         Part number Number 1000 Watts/Ch           XPA 1002-70V         70 V Two Channel Amp - 100 Watts/Ch         60-1302-01           XPA 1002-100V         100 V Two Channel Amp - 100 Watts/Ch         60-1302-11	Protection	Clip limiting, thermal, short circuit, DC output	
Product weight Regulatory compliance Safety CE, c-UL, UL UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment. Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-11	Enclosure dimensions	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide)	
Regulatory compliance Safety  CE, c-UL, UL  UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental  Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model  Version Description  Part number  XPA 1002-70V  70 V Two Channel Amp - 100 Watts/Ch  60-1302-01  XPA 1002-100V		,	
Safety  CE, c-UL, UL  UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental  Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model  Version Description  Part number  XPA 1002-70V  70 V Two Channel Amp - 100 Watts/Ch  60-1302-01  XPA 1002-100V	•	2.5 lbs (1.1 kg)	
UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number  XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01  XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11	, , ,	OF - III III	
heat and smoke release; meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.  Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE   Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11	Safety		
and BSEN 60065 for AV equipment.  Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE   Model Version Description Part number  XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01  XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11		·	
Environmental Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE  Model Version Description Part number XPA 1002-70V 70 V Two Channel Amp - 100 Watts/Ch 60-1302-01 XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11			
Model         Version Description         Part number           XPA 1002-70V         70 V Two Channel Amp - 100 Watts/Ch         60-1302-01           XPA 1002-100V         100 V Two Channel Amp - 100 Watts/Ch         60-1302-11	Environmental		
Model         Version Description         Part number           XPA 1002-70V         70 V Two Channel Amp - 100 Watts/Ch         60-1302-01           XPA 1002-100V         100 V Two Channel Amp - 100 Watts/Ch         60-1302-11	LIMIOIIIIGIIAI		
Model         Version Description         Part number           XPA 1002-70V         70 V Two Channel Amp - 100 Watts/Ch         60-1302-01           XPA 1002-100V         100 V Two Channel Amp - 100 Watts/Ch         60-1302-11			
XPA 1002-70V         70 V Two Channel Amp - 100 Watts/Ch         60-1302-01           XPA 1002-100V         100 V Two Channel Amp - 100 Watts/Ch         60-1302-11	Madal		
XPA 1002-100V 100 V Two Channel Amp - 100 Watts/Ch 60-1302-11		•	
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