Specifications
XPA 2001 Series

Audio
Voltage gain
   XPA 2001-70V................. 57x (35 dB)
   XPA 2001-100V............. 81x (38 dB)
Stereo channel separation........ >75 dB @ 1 kHz
CMRR............................. 75 dB @ 1 kHz (typical)

Audio input
Number/signal type.............. 1 stereo or 2 mono, balanced/unbalanced
Connectors.......................... (1) 3.5 mm captive screw connector, 5 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) if driven by one input
                            -2 dBu (0.615 Vrms) if both inputs are summed
Input signal detection threshold...... -40 dBu ±3 dB, balanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output
Number/signal type
   XPA 2001-70V................. 1 mono, 70 V line
   XPA 2001-100V............. 1 mono, 100 V line
Connectors.............................. (1) 5 mm screw lock captive screw connector, 2 pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance
   XPA 2001-70V................. 25 ohms minimum
   XPA 2001-100V............. 50 ohms minimum
Amplifier type......................... Class D
Output power
   XPA 2001-70V................. 200 watts rms, 70 V, 1 kHz, <0.1% THD
   XPA 2001-100V............. 200 watts rms, 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
Damping factor
   XPA 2001-70V................. >100 @ 25 ohms
   XPA 2001-100V............. >100 @ 50 ohms
High pass filter...................... 80 Hz, 12 dB per octave rolloff (switch selectable)
**Control/remote — amplifier**

Control port ........................................... (1) 3.5 mm captive screw connector, 5 pole
Pin configurations
- DC volume control (analog)........... Pin 1 = +10 VDC, 50 mA (max.), pin 2 = volume/mute (variable voltage), pin 3 = GND
- Volume control voltage range ... 0 V (mute) to 10 V (maximum volume)
- Standby power control (contact closure) Pin 4 = GND, pin 5 = standby

**General**

Power supply ................................. Internal
Input: 100-240 VAC, 50-60 Hz

Power consumption and thermal dissipation
XPA 2001-70V.................................

<table>
<thead>
<tr>
<th>Condition</th>
<th>115 VAC, 60Hz</th>
<th>230 VAC, 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Line Current</td>
<td>AC Power Consumed</td>
<td>Thermal Dissipation</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Active (1/8 power), all channels driven</td>
<td>70 V</td>
<td>0.4</td>
</tr>
<tr>
<td>Quiescent (idle)</td>
<td>0.2</td>
<td>9.5</td>
</tr>
<tr>
<td>Standby</td>
<td>&lt;0.1</td>
<td>&lt;1</td>
</tr>
</tbody>
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XPA 2001-100V.................................

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<tr>
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<td>100 V</td>
<td>0.4</td>
</tr>
<tr>
<td>Quiescent (idle)</td>
<td>0.1</td>
<td>11.9</td>
</tr>
<tr>
<td>Standby</td>
<td>&lt;0.1</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

- Temperature/humidity ..................... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
- Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
- Cooling ........................................... Convection, no vents, with internal heat sinks
- Protection ........................................... Clip limiting, thermal, short circuit, DC output
- Indication ............................. Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit
- Mounting ................................. Yes, with optional 1U rack shelf
- Enclosure type .............................. Metal
- 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)
- Vibration ................................. ISTA 1A in carton (International Safe Transit Association)
- Regulatory compliance
  - Safety ........................................... BSMI, CCC, CE, c-UL, GS, KC Mark, PSE, S Mark, 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.
  - EMI/EMC ........................................... CE, CISPR 22 Class B, C-tick, FCC Class B, ICES, KCC, VCCI Class B
  - Environmental .......................... Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE
- Warranty ................................. 3 years parts and labor
NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.