

Specifications

XPA U 2002 SB

Audio

| | |
|----------------------------------|-------------------------|
| Voltage Gain | |
| Stereo mode (8 ohm) | 33x (30 dB) |
| Stereo mode (4 ohm) | 23x (27 dB) |
| Bridged mono mode (16 ohm) | 65x (36 dB) |
| Bridged mono mode (8 ohm) .. | 46x (33 dB) |
| Bridged mono mode (70V) | 57x (35 dB) |
| Bridged mono mode (100V) | 81x (38 dB) |
| CMRR | 75 dB @ 1 kHz (typical) |

Audio Input

| | |
|--------------------------------------|--|
| Number/Signal Type | 2 balanced/unbalanced |
| Connectors | (1) 5-pin 3.5 mm captive connector |
| Impedance | >10 k Ω balanced/unbalanced, DC coupled |
| Nominal Level | +4 dBu balanced |
| Maximum Level | +20 dBu balanced |
| Input Sensitivity | +4 dBu (1.23 Vrms) |
| Input Signal Detection Threshold ... | -65 dBu +/-3 dB, balanced |

Audio Output

| | |
|-------------------------------------|--|
| Output Number/Signal Type | 2 channel, 4 or 8 ohms; or 1 bridged mono, 8 ohms, 70V or 100V |
| Connectors | (1) 4 pole 5 mm screw lock captive screw connector |
| Load Impedance | |
| Stereo mode (8 ohm) | 8 ohms minimum |
| Stereo mode (4 ohm) | 4 ohms minimum |
| Bridged mono mode (16 ohm) | 16 ohms minimum |
| Bridged mono mode (8 ohm) .. | 8 ohms minimum |
| Bridged mono mode (70V) | 12.5 ohms minimum |
| Bridged mono mode (100V) | 25 ohms minimum |
| Amplifier Type | Class D |
| Output Power | |
| Stereo mode | 200 Watts per channel, 4 or 8 ohms, 1 kHz, 0.1% THD |
| Bridged mono mode | |
| Low Impedance | 400 Watts per channel, 8 ohms, 1 kHz, 0.1% THD |
| High Impedance | 400 Watts per channel, 70V or 100V, 1 kHz, 0.1% THD |
| Frequency Response | 20 Hz to 20 kHz, +/- 1 dB, 8 ohms/ 70V/ 100V |
| THD + Noise | 0.1% @ 1 kHz at 3 dB below clipping |
| S/N | 100 dB, 20 Hz - 20 kHz, unweighted |
| Damping Factor | >100 @ 8 ohms |
| High Pass Filter | |
| Bridged mono mode (70 V or 100V) .. | 80 Hz, 12 dB per octave rolloff (switch selectable) |

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Control/Remote

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|--|--|
| Control Port | (1) 3.5 mm captive screw, 5-pole |
| Pin Configuration | |
| DC volume control (analog) | Pin 1 = +10 VDC, 50 mA (max.), Pin 2 = volume/mute (variable voltage) Pin 3 = GND |
| Standby power control (Contact Closure) | Pin 4 = GND, Pin 5 = Standby |

General

Power 100 VAC to 240 VAC, 50-60 Hz, internal
 Power Consumption and Thermal Dissipation

| XPA U 2002 SB | | 115 VAC, 60 Hz | | | | 230 VAC, 50 Hz | | | |
|---|---------------|-----------------|-------------------|---------------------|--------|-----------------|-------------------|---------------------|--------|
| | | AC Line Current | AC Power Consumed | Thermal Dissipation | | AC Line Current | AC Power Consumed | Thermal Dissipation | |
| Condition | | A | W | W | BTU/hr | A | W | W | BTU/hr |
| Active (1/8 power), all channels driven | Stereo 8 Ω | 0.6 | 63.6 | 13.6 | 46 | 0.4 | 62.2 | 12.2 | 42 |
| | Stereo 4 Ω | 0.6 | 67.1 | 17.1 | 58 | 0.4 | 65.3 | 15.3 | 52 |
| | Bridged 8 Ω | 0.6 | 66.3 | 16.3 | 56 | 0.4 | 64.2 | 14.2 | 48 |
| | Bridged 16 Ω | 0.6 | 62.8 | 12.8 | 44 | 0.4 | 61.6 | 11.6 | 40 |
| | Bridged 70 V | 0.6 | 64.2 | 14.2 | 48 | 0.4 | 62.8 | 12.8 | 44 |
| | Bridged 100 V | 0.6 | 61.5 | 11.5 | 39 | 0.1 | 60.3 | 10.3 | 35 |
| Quiescent (idle) | | 0.1 | 6.0 | 6.0 | 20 | 0.1 | 6.0 | 6.0 | 20 |
| Standby | | <0.1 | <1 | <1 | <3 | <0.1 | <1 | <1 | <3 |

Protection Clip limiting, thermal, short circuit, DC output
 Indication Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit
 Power LED indicates DC output protection (see the XPA U 1004 SB/2002 SB User Guide for details)
 Rack Mount Yes with included brackets and optional rack shelf
 Enclosure Type Metal (Aluminum)
 Enclosure Dimension (1U high, half rack wide)
 1.7" H x 8.7" W x 9.5" D
 43mm H x 220mm W x 241mm D
 Product Weight 3.4 lbs (1.5 kg)
 Enclosure Type Metal (Aluminum)
 Vibration ISTA 1A in carton (International Safe Transport Association)
 Regulatory Compliance
 Safety CE, C-tick, CUL, UL
 UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 60065 and IEC 60065 for AV Equipment
 EMI/EMC CE, C-tick, FCC Class B, ICES, VCCI Class B, CISPR 22 Class B
 Environmental Compliance ENERGY STAR® qualified amplifier, CEC, European Code of Conduct, RoHS
 Warranty 3 years parts and labor

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