



FEATURES

- Efficient, low heat design
- Turn on delay
- No fans or relays
- Dual channel -- bridgeable
- Solid-state, thermal/load protection
- Clean, 10 μ sec clip recovery
- Low distortion
- Light-weight and compact
- Single rack space design
- Power on indicator
- Temperature indicator
- Failure indicator
- Signal presence indicator
- Current transit limit indicator
- Convection cooling

DESCRIPTION

The PA-4020B Power Amplifier is IRP professional sound products' latest version of the legendary DH-4020. The PA-4020B features improvements designed to address the needs of today's system integrators. The front panel graphics have been redesigned to match the appearance of the other power amplifiers in the PA-Series product line.

This new unit employs a dual monaural design for improved reliability. The PA-4020B output power rating has been increased significantly. However, the single rack space mounting has been retained. With convection cooling and a fully enclosed chassis, the inherent problems of fan noise and susceptibility to environmental problems such as dust, smoke and liquids have been reduced to near negligible levels.

Designed for the Global Market, IRP decided that the PA-4020B had to be one of the most easily specified and installed power amplifier available. These design criteria are reflected in the overall design and feature set. The amplifier is able to operate on 120 or 240 volt ac power at 50/60Hz.

PA-4020B POWER AMPLIFIER

This highly stable discrete power amplifier has a power handling rating as shown in the following table.

MODE	IMPEDANCE	POWER OUTPUT
Dual Channel	4 Ohms	250W
Dual Channel	8 Ohms	180W
Dual Channel	16 Ohms	125W
Bridged Mode	4 Ohms	450W

Note: Power output is average per channel, 20Hz to 20kHz with less than .02% THD in dual channel, both channels driven.

Both bipolar amplifier sections employ switchable transient current limiters and a turn on delay for loudspeaker protection.

The amplifier is equipped with input and output connection provisions that will accommodate virtually any permanent or portable application. The rear panel is arrayed with XLT-type, Neutrik™ Speakon, binding posts and removable screw terminal connectors.

Few power amplifiers available to the Audio Industry offer as much flexibility, power handling provisions and the quality performance inherent in the IRP PA-4020B.

SPECIFICATIONS

Frequency response:.....+0/-1dB (20Hz to 20kHz)
 Max. input level:..... +20dBV
 Max.output level:..... +20dBm
 Input impedance:..... 100kΩ
 Input sensitivity:..... 1V_{RMS}

Distortion:..... .02% THD
 Input signal filter:..... 40kHz
 (to limit input slew rate and avoid SID/TIM distortion)
 Channel crosstalk:..... -85dB
 Output impedance:..... 4,8 and 16 Ohms
 Signal to noise ratio:..... >105dB below rated output
 Slew rate:..... 20V/μsec
 Damping factor:..... >100
 Overload recovery:..... <10μsec
 (with no recovery anomalies)
 Dc output offset:..... <±10mV

Front panel controls and indicators:

- Channel level controls (2)
- Power on/off switch
- Power on indicator, 2 green leds
- Temperature indicator, 2 yellow leds
- Failure indicator, 2 red leds
- Signal indicator, 2 green leds
- Current transit indicator, 2 yellow leds

Rear panel controls and indicators:

- Input channel connectors,
- 2 removable screw clamp connectors
- 2 XLR-type 3-pin connectors
- Output channel connectors, each channel
- two 4-way binding posts
- 2 Speakon connectors
- 1 Ground lift switch
- 1 Bridge mode switch
- 1 ac line fuse
- 1 three-pole, grounded, male IEC line cord receptacle

Ac power requirements:

120/240V ±10%, 50/60Hz (draws <20 watts on idle,
 300 watts at 200 watt output)

Operating temperature range: 0 to +85° C

Dimensions: 19x1.75x14in.(48.3x4.45x35.56cm)

Finish: Thermosetting, black paint/anodized

Products and specifications subject to change without prior notification

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