

Power Amplifier



PA-2100

Power: 2 x 100W @ 8 Ohm or 2 x 100W @ 4 Ohm or 2 x 100W @ 100Volt

The PA-2100A Power Amplifier from IRP professional sound products is a 100 watt per side dual-monaural output device. The PA-2100A features improvements designed to address the needs of today's system integrators, such as internal torroidal output transformers. The front panel graphics have been designed 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-2100A output power rating has been designed to provide a midrange unit that meets the needs of IRP customers and clients. Similar to other power amplifiers in the PA-Series, the unit occupies a single rack space mounting. 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-2100A 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. This highly stable discrete power amplifier has a power handling rating as shown

Features

- Dual channel
- Internal 70V /100V Torroidal Output Transformers
- Turn on delay
- Solid-state, thermal/load protection
- Clean, 10usec clip recovery
- Low distortion
- Light-weight and compact
- Single rack space design
- Power on indicator
- Signal presence indicator
- Clipping limit indicator
- Convection cooling



Technical Specifications

Frequency response: +0/-1dB (20Hz to 20kHz)
Max. input level: +20dBv
Max. output level: +20dBm
Input impedance: 100k
Input sensitivity: 1V RMS
Distortion: 0.02% 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, 70v/100v
Signal to noise ratio: >105dB below rated output
Slew rate: 20V/usec
Damping factor: >100
Overload recovery: <10usec
(with no recovery anomalies) Dc output offset: <+-10mV

Front panel controls and indicators:

Channel level controls (2)
Power on indicator, green led
Signal indicator, green led
Clipping indicator, Red led

Rear panel controls and indicators:

Input channel connectors,
Removable screw clamp connectors
Output channel connectors,
Removable screw clamp connectors
1 ac line fuse
1 three-pole, grounded, male IEC line cord

AC power requirements:

120/240V 50/60Hz (draws <20 watts on idle, 300 watts at 200 watt output)
Operating temperature range: 0 to +85 C
Dimensions: 19" x 1.75" x 14" (483 mm x 44.5 mm x 260 mm)
Finish: Thermosetting, black paint/anodized