

A 4380A - Phase5 Public Address Power Amplifier 250W



Overview

Manufactured in Australia to stringent engineering criteria, the A 4380A amplifier exhibits remarkable performance and outstanding reliability. Over 2 years in design and development, the evolution of the A 4380A included extensive consultation and input from pro sound contractors and installers across the country. The host of features incorporated commend this amplifier series to the most demanding of pro sound and industrial PA system applications.

High Performance

Frequency response extends from 50Hz to 15kHz at a total harmonic distortion (THD) of less than 0.5%. Output is 4 to 16 ohm, 70V and 100V line.

Thermally Cued Fan Cooling

Redback® amplifiers incorporate on demand multi-staged thermally cued fan forced cooling. The output power stage is thermally monitored enabling automatic operation of a long life cooling fan, which spins very slowly to maintain an optimum operating temperature and to minimise ambient noise. In quiescent or ordinary cycle paging mode the fan is inoperative.

Protection Features

Over temperature sensing is employed to shut down the amplifier in extreme over heat conditions, eg extreme over load and /or over drive misuse. Re-start is automatic once normal temperatures are attained.

The output voltage is limited to 110V maximum RMS voltage irrespective of load impedance to prevent damage to speaker load. Standard 100V line PA amplifiers can deliver up to 180 volts or more under conditions of high drive and very light loading. This output over voltage can quickly destroy any loudspeakers connected.

In the event of an overload, the output current is limited by the internal circuitry, thus reducing the output voltage at the speaker terminals. The front panel 'Overload' LED flashes, indicating a fault with the speaker circuit.

Key Features

- Australian made
- 10 year manufacturer warranty with local product support
- Robust design incorporating latest MOSFET technology
- Very Low noise and distortion
- 70V, 100V and 4-16Ω outputs
- 240V AC or 24V DC operation
- 24V DC @ 1A output for external devices
- Multi stage thermally cued fan cooling
- Output Peak Limited
- Thermal Overload protected
- Signal Presence Indicators
- Fault Indicators
- Power Status Indicators
- Rack Mountable (suits 19 inch racks)

About Redback® Public Address Products

Redback® products are proudly designed, engineered and manufactured in Australia.

Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 45 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel

- 1 240V AC input
- 2 4-16Ω terminals
- 3 70V line speaker terminals
- 4 100V line speaker terminals
- 5 DC blade fuse (resettable)
- 6 24V DC input terminal
- 7 Charging output for backup battery
- 8 Volume control
- 9 XLR 3 pin balanced (line out)
- 10 XLR 3 pin balanced (line in)

Specifications

Electrical	
Power	250 Watts RMS
Distortion	<0.5%, @ 1kHz
Frequency response	50Hz - 15kHz, -3dB
Output line	100V, 70V, or 4 - 16Ω
Input sensitivity	500mV balanced
Signal to noise ratio	(peak limiting by-passed) > 90dB
Line output	600Ω balanced, 0dB, 3 pin XLR
Speaker Connection	Screw terminals
24V DC Output	Screw terminals
Inputs	3 pin XLR (500mV)
24V-30V DC power	Screw terminals
240V AC power	IEC power connector
Indicators	Mains, 24V DC, Power, Signal, Over temp, Over current, Shut down, Peak limiting
Current draw	250mA Standby, 17A Full @ 24V DC
Protection	7.5A AC and 20A DC fuse
Power supply	240V AC or 24V DC (nominal)
Input Impedance	10KΩ

Controls	
Volume 1	Controls line 1
Power	On/Off switch

Mechanical	
Dimensions	483W x 340D x 88H mm
Weight	≈ 11.5kg

Connections

Input	Line In	
	3 pin XLR female (balanced)	

Output	Speakers	Line Out
	Screw terminals for 100V line, 70V line, 4-16Ω	3 pin XLR female (balanced)

Note: We do not recommend using this amplifier with a combination of low impedance and 100V line speakers.