

Public Address Amplifiers

A 4070A 125W

A 4080A 250W

A 4090A 500W

A 4072A 2x125W



Features

- Multi-stage thermally cued fan cooling
- LED bargraph VU meter
- Input signal presence indicator
- Output peak limited
- 2U 19" rack mount
- 3 pin XLR input, 3 pin XLR loop out
- Level control rear mounted
- 100V, 70V and 4 - 16Ω outputs
- Thermal and overload protection
- 240V AC, or 24V DC operation
- 300mA 24V battery trickle charge
- Australian made

Phase 4 Public Address Power Amplifiers

Australian designed and manufactured.

Manufactured in Australia to stringent engineering criteria, the Phase 4 amplifier series exhibit remarkable performance and outstanding reliability. Over 2 years in design and development, the evolution of Phase 4 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. Redback Phase 4 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 computer style cooling fan to "off", "low" or "high" air flow through a specially designed tunnel heatsink. In quiescent or ordinary cycle paging mode the fan is inoperative.

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.

The A 4072A consists of 2 X 125W amplifiers in a single chassis. Features and specifications are as described for model A 4070A.

Electronic Specifications

Power Outputs

A 4070A:	125 watts RMS
A 4072A:	2 x 125 watts RMS
A 4080A:	250 watts RMS
A 4090A:	500 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)	> 90 dB
Line output:	600Ω balanced, 0dBV

Output Connectors

Speakers:	Screw terminals
Line out:	3 pin XLR
Trickle charge:	Screw terminals

Input Connectors

Inputs:	3 pin XLR balanced
24V-30V DC power:	Screw terminals
240V AC power:	IEC power connector

Controls

Master:	Volume (on rear panel)
Power:	On/off switch
Indicators:	Power, fault, VU meter, signal present, output peak limiting, overcurrent
Power supply:	240V AC or 24V DC (nominal)

Fuse Protection

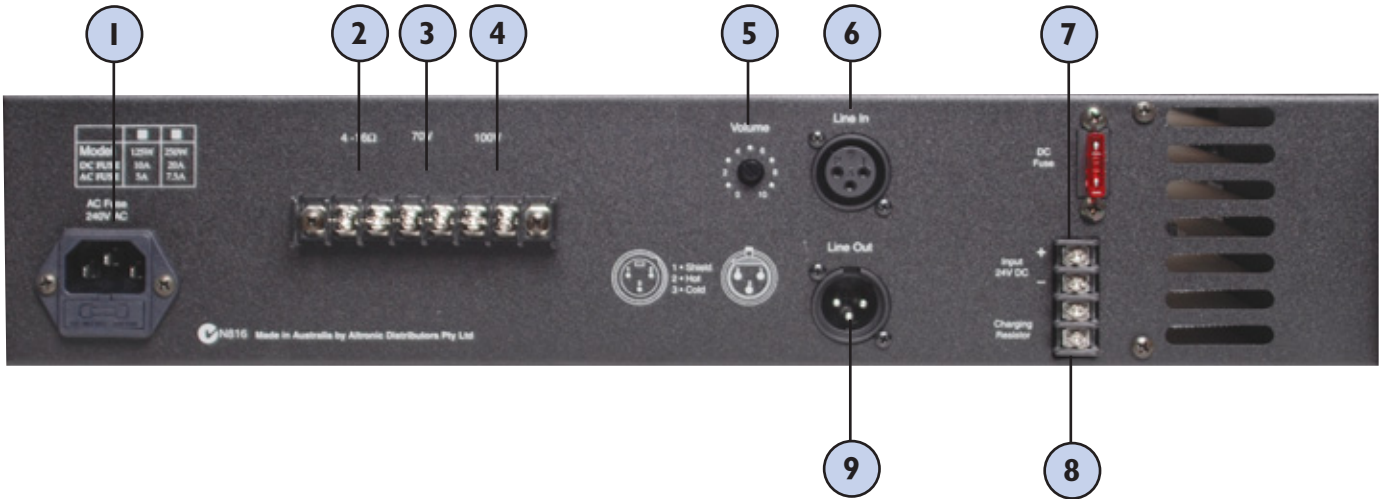
A 4070A:	5A AC and 10A DC
A 4072A:	7.5A AC and 2 x 10A DC
A 4080A:	7.5A AC and 20A DC
A 4090A:	10A AC and 2 x 20A DC

Dimensions

A 4070A / A 4080A:	483W x 330D x 88H
A 4072A / A 4090A:	483W x 370D x 88H

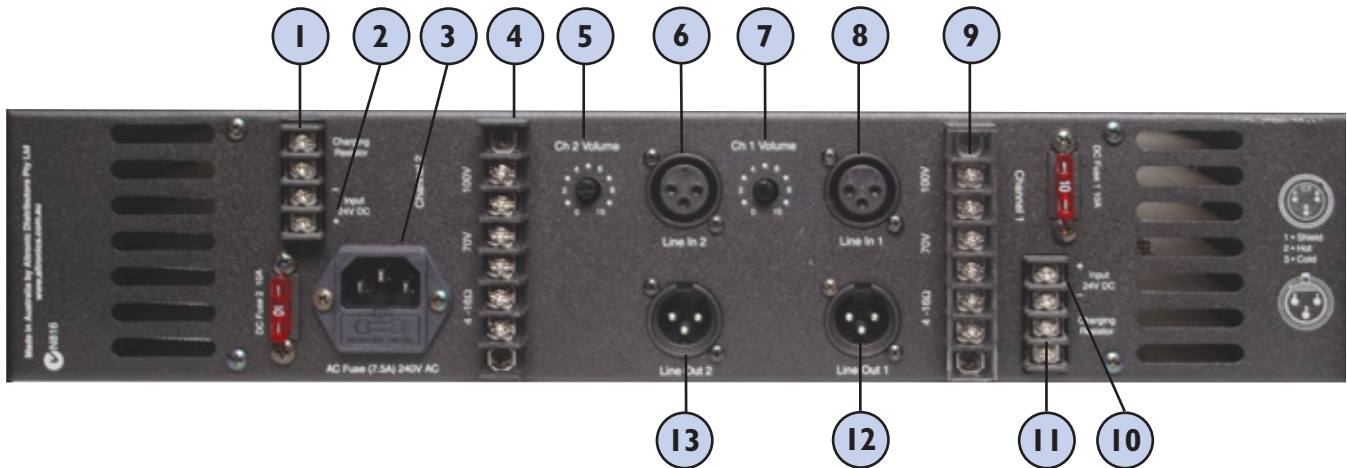
Weight

A 4070A:	12.4kg
A 4072A:	18kg
A 4080A:	19kg
A 4090A:	22kg



A 4070A / 4080A / 4090A Rear Panel

- | | | |
|------------------|---------------------------------|----------------------------------|
| 1: 240V AC input | 4: 100V output | 7: 24V DC input |
| 2: 4-16Ω output | 5: Output level | 8: Battery charging connection |
| 3: 70V output | 6: Line in XLR 3 pin (balanced) | 9: Line out XLR 3 pin (balanced) |



A 4072A Rear Panel

- | | | |
|--|---------------------------------------|---|
| 1: Battery charging connection (Ch. 2) | 6: Channel 2 line in XLR (balanced) | 11: Battery charging connection (Ch. 1) |
| 2: 24V DC input (Channel 2) | 7: Output level (Channel 1) | 12: Channel 1 line out XLR (balanced) |
| 3: 240V AC input | 8: Channel 1 line in XLR (balanced) | 13: Channel 2 line out XLR (balanced) |
| 4: 100V / 70V / 4-16Ω outputs (Ch. 2) | 9: 100V / 70V / 4-16Ω outputs (Ch. 1) | |
| 5: Output level (Channel 2) | 10: 24V DC input (Channel 1) | |

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