

REDBACK® MIXER AMPLIFIERS



Australian Made 10 Year Comprehensive Manufacturer Warranty

Product Overview

Engineered for professional PA installations, the A 4075 and A 4085 conservatively deliver 125W and 250W RMS power respectively. Frequency response extends from 50Hz to 15kHz \pm 3dB at a total harmonic distortion (THD) of less than 0.5% @ 1kHz. Voice/Vox muting, including three levels of input priority, bass and treble controls and phantom powering capability enable unparalleled flexibility for a wide scope of applications such as schools, shopping centres, workshops, mine sites and office buildings. Operates from 240V AC mains or 24V DC permitting battery backup operation during mains power failure. Output can be 100V line, 70V line or low impedance (4 - 16 Ω) loads. The circuit includes thermal overload shutdown, over current and overload protection plus fuses on both AC and DC supply rails.

Input configuration: Each input can be configured for either balanced microphone or line use. A dip switch is supplied for each input providing the following features: • Phantom power on/off • Mic or line • 100mV or 1V • Vox muting on/off (priority)

Three levels of priority: Priority selection is by a dip switch on the rear panel: Input 1 over 2-6, input 2 over 3-6 and input 3 over 4-6.

Overload protection: 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.

Input Limiting: Limits the output to 110V regardless of input level. This prevents dangerously high voltages from damaging the loud-speaker.

Key Features

- LED bargraph VU meter
- Input presence signal indicator
- Output peak limited
- Multi-stage thermally cued fan cooling
- 2U 19" rack mount
- Tape record out terminals
- Remote volume facility
- Optional alert, evac & chime tone generator (A 2073)
- Vox activated 24V DC output
- 6 inputs with 3 pin XLR or 2 x RCA sockets
- Phantom powering available on all inputs
- Three levels of priority
- Option for mic/line to operate vox muting on inputs 1 to 3
- Push to talk (PTT) terminals on rear panel
- Bass and treble tone controls
- Power amp line out connector
- Terminals for 100V line, 70V line and 4 - 16 Ω loads
- 240V AC or 24V DC power operation
- Thermal & fuse overload protection
- Built in short circuit protection
- 300mA trickle charge facility for 24V DC batteries
- Master volume can be configured as pre or post line out
- Australian designed & assembled

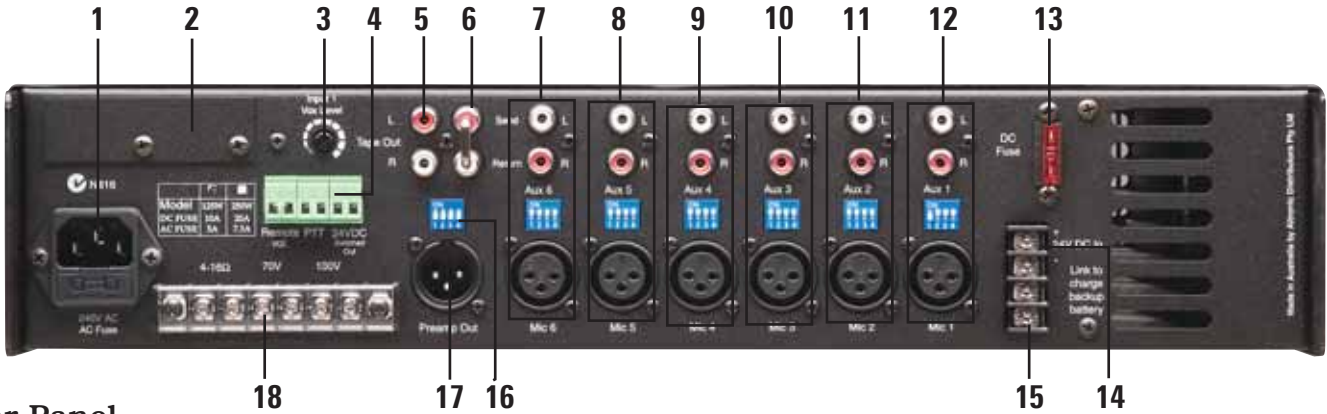
Specifications

Power Output	
A 4075:	125 watts RMS
A 4085:	250 watts RMS
Distortion:	< 0.5%, @ 1kHz
Output line:	100V, 70V or 4 - 16 Ω
Line output:	600 Ω balanced, 0dBV
Frequency Response	
Mic inputs:	50Hz - 12kHz, -3dB
Line inputs:	50Hz - 15kHz, -3dB
Sensitivity	
Mic inputs:	3mV
Line inputs:	
Signal To Noise Ratio (Limiting by-passed)	
Mic inputs:	> 75dB below rated output
Line inputs:	> 81dB below rated output
Output Connectors	
Speakers:	Screw terminals
Line out:	3 pin XLR
	Tape out RCA
Input Connectors	
Inputs:	3 pin XLR balanced or 2 x RCA
24V DC power:	Screw terminals
240V AC power:	IEC power connector
Muting:	PTT via microphone switch contacts
	or VOX muting



Controls
 Mic inputs:Volume
 Line inputs:Volume
 Bass:±10dB @ 100Hz
 Treble:±10dB @ 10kHz
 Indicators:Power, fault, VU meter, signal present,
output peak limiting, overload
 Power Supply:240V AC or 24V DC

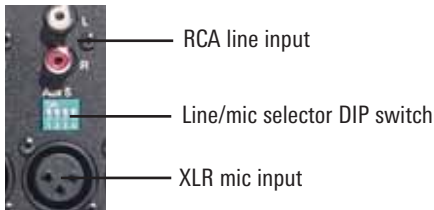
Current Draw
 A 4075:350mA Standby, 8A Full Load
 A 4085:350mA Standby, 17A Full Load
Dimensions
 All models:≈483W x 380D x 88H (410D inc. handles)
Weight
 A 4075:≈14.5kg
 A 4085:≈19.5kg
 Colour:Black



Rear Panel

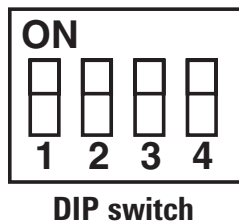
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| <ul style="list-style-type: none"> 1: 240V AC input 2: Optional alert / evac / chime module 3: VOX level 4: Remote vol. / PTT / 24V DC terminal 5: Tape out 6: Effects loop | <ul style="list-style-type: none"> 7: Channel 6 RCA input 8: Channel 5 RCA input 9: Channel 4 RCA input 10: Channel 3 RCA input 11: Channel 2 RCA input 12: Channel 1 RCA input | <ul style="list-style-type: none"> 13: DC Fuse 14: DC power connectors 15: Battery charging terminals 16: Output configuration DIP switches 17: Preamp XLR output 18: Speaker output terminals |
|---|---|--|

Channel inputs

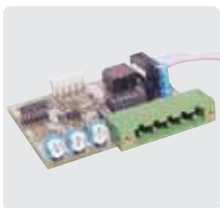


DIP Switch Settings Available

- A. Output Configuration**
- 1: Switched 24V Output ON/OFF
 - 2: - (not used)
 - 3: Preamp out POST master volume
 - 4: Preamp out PRE master volume
- B. Inputs 1-6 Configuration**
- 1: Mic of line operation
 - 2: 100mV or 1V line sensitivity
 - 3: VOX priority ON/OFF (inputs 1-3)
 - 4: Phantom power ON/OFF



Optional Add-Ons



A 2073 Alert/evac option board:
 Generates pre chime, bell, alert and evacuation tones. The alert tone can function continuously, or switch to evac tone after a preset time delay (adjustable 30 seconds to 4.5 minutes). Simply connects to the amplifier internally via the cable provided.



A 2280A Remote volume wall plate:
 Connects via figure 8 cable to the "remote volume" terminals of the amplifier. Enabling overall volume to be adjusted as required. Features a PCB jumper to reverse the volume control direction. Maximum cable length 100m.

