

SPECIFICATIONS

AUDIO TELEX

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COMMUNICATIONS PTY LTD



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DCM500 500 Watt Power Amplifier

Power Output

500 watts RMS into 100v, 70v or 4 ohms

Maximum Load

20 ohms @ 100v

Frequency Response

50Hz-15kHz (+/-3db) into 100v

THD

Less than 0.5% @ 1KHz

Distortion at Max Power

0.7%

S/N Ratio

-76db

Input Sensitivity

Max 300mv (set @ 1v)

Input Impedance

10K ohms

Input Connection

Transformer Balanced input with male and female XLR input/output sockets.

Outputs

- 100, 70 volt line and 4 ohm speaker outputs via a rear panel barrier strip.
- Line out to feed additional power amplifiers available from 1 of the paralleled XLR inputs

Controls

- Front Panel Power Switch
- Recessed front panel input attenuator

Indicators

Amplifier Status Display Window including:

- Power On LED
- 10 segment LED output meter.
- Mains fail LED
- High temp trip LED

Protection

- Internal Cooling Fans with temperature sensor
- Compressor/Limiter
- Current Limiter with auto protect and auto reset

Dimensions/Weight

- 88 mm H x 483 mm W x 410 mm D (Chassis dimensions only)
- 18 kg

Power Sources

AC: 240V-50Hz or 110V-60Hz
3 pin IEC connector.

DC: 24v with built in trickle charge circuit:

- 300ma maximum trickle charge.
- 30 amp maximum current draw on DC.

Power Consumption

800 watts

FEATURES

AC and DC operation

Built-in Compressor

Overload & Overdrive Protection

Fan Cooled with Automatic Sensing

Transformer Balanced Inputs

Integral Rack Mount Kit

Built-in trickle charge circuit

Backlit LED display

Recessed Input Attenuation Control



DESCRIPTION

The DCM500 is a high performance power amplifier designed to meet the needs of the most demanding sound reinforcement installations and applications. The amplifier is designed to operate from both AC mains power as well as DC.

INPUTS

The DCM500 features two paralleled transformer balanced XLR inputs, one of which can be used as an output to feed additional power amplifiers.

OUTPUTS

The DCM500 provides 100v, 70v and 4 ohm speakers outputs via a rear panel barrier strip. A feed to drive additional power amplifiers can be taken from one of the XLR inputs.

CONTROLS

The front panel consists of a mains power switch, and a recessed, screwdriver adjustable input attenuation control

METERING

The front panel of the DCM500 provides a back-lit LED display indicating power, high temperature, LED VU meter and mains fail indication. The mains fail indicator will only operate in the event of a mains power failure and when the amplifier is connected to a 24vdc power supply.

PROTECTION

The DCM500 features overload and overdrive protection. Should the amplifier be overdriven, a current limiter will protect the unit, and in a worst case scenario the amplifier will shut down until the problem is resolved. Once the problem is fixed (shorted speaker line, or overdriven input), the amplifier will automatically reset and continue operation. The amplifier also features a built-in compressor/limiter designed to smooth out any peaks in input signal.

The DCM500 features generous heatsinking and fan cooling. The fans will only switch on if the operating temperature exceeds a factory preset level.

OTHER FEATURES

The DCM500 can operate from both AC and 24v DC and includes a built-in trickle charge circuit.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The power amplifier shall have two transformer balanced XLR inputs, one of which can be used to feed additional power amplifiers.

The amplifier shall be capable of delivering 500 watts RMS into 100, 70 volt line or 4 ohms loads. Speaker connection shall be

via a rear panel barrier strip.

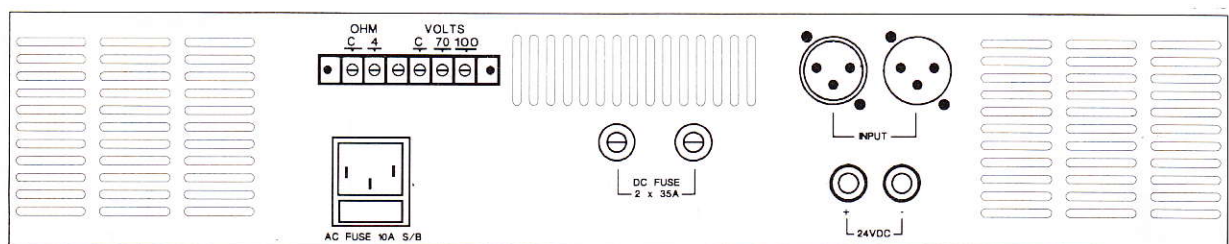
The unit shall operate from both AC mains power or from a 24v DC battery supply. The amplifier shall include a built-in trickle charge circuit.

The amplifier shall feature overload and overdrive protection and shall also include cooling fans, which should only be active if the operating temperature exceeds a factory preset level.

The power amplifier shall be of high quality, suitable for the most demanding PA installations and applications. The unit shall have a frequency response of no less than 50Hz to 15kHz (+/-3db). Distortion at 1kHz shall not exceed 0.5%. The Signal to Noise ratio shall be -76db or greater.

The unit shall be packaged in a rugged 2 RU metal chassis suitable for desk or rack mounting.

The power amplifier shall be an Audio Telex DCM500.



Rear Panel View of the DCM500