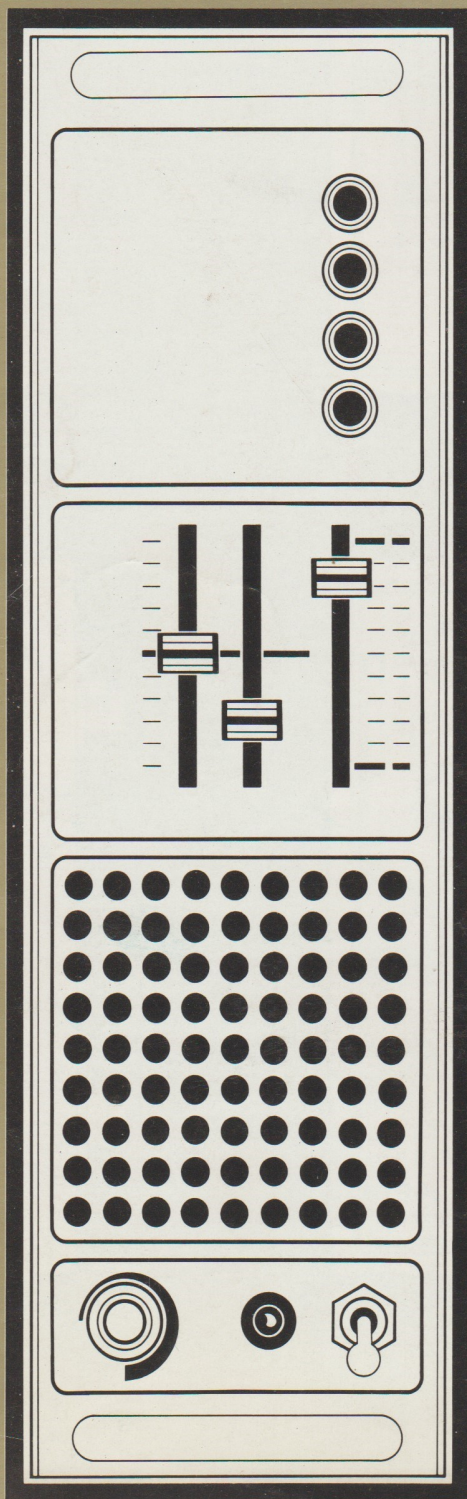


Rank Film Equipment

SOUND SYSTEMS



The name Cinemeccanica has always been associated with good, innovative design and extreme versatility – and their new range of Cinema Sound Systems is the culmination of years of experience gained in the design and manufacture of Cinematographic equipment.

Based upon the quick and simple interchangeability of modules, these new sound systems are robust yet lightweight – all cabinets are made of sheet steel – and are built to last.

The choice of four models means that there is a system that will suit every application from small capacity cinemas to large auditoria, whether with full or part automation of the projection booth.

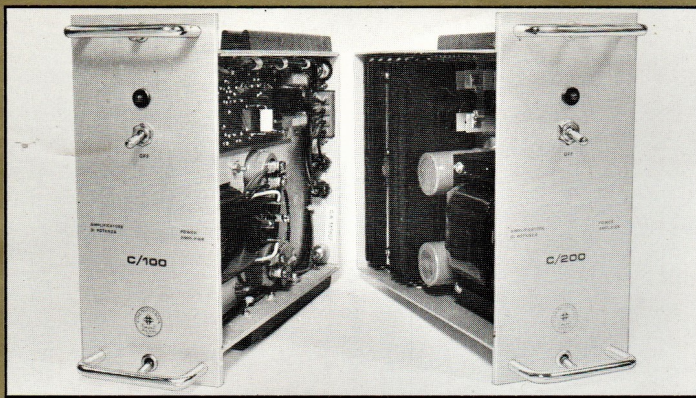
Cinemeccanica Sound Systems provide excellent sound fidelity, are easy to install and maintain, simple to operate and highly reliable.

Versatility *is* Cinemeccanica!

Rank Film Equipment,
A division of
Rank Audio Visual Limited,

P.O. Box 70, Great West Road, Brentford, Middlesex TW8 9HR, England.
Telephone: 01-568 9222. Telex: 27976. Cables: Rankaudio Brentford.





C/100 and C/200 power amplifier modules are fully interchangeable and can be mounted within the same cabinets. Sophisticated circuitry and top quality components provide optimum performance and high power: 50W RMS – 100W peak power for the C/100 and 200W peak power for the C/200.

C55PT & C/100PT2A

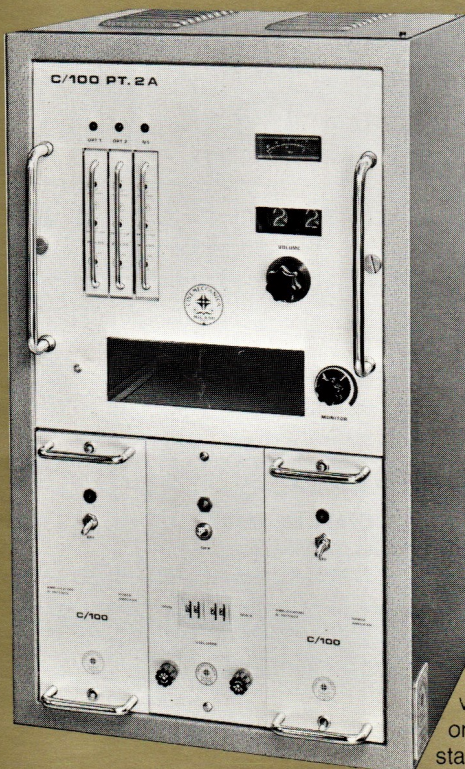
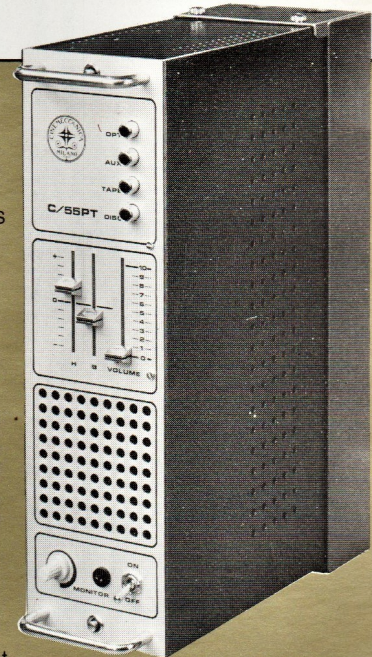
C55PT

A high quality, compact sound system designed as an integrated unit primarily for use in cinemas of up to 800 seats. The new C/55PT system features extreme accuracy of sound reproduction, ease of installation and maintenance, and very high reliability. All components like the potted and shielded transformer; linear faders sealed against dust; gold plated connectors; computer grade capacitors, are of the highest professional standard – placing this new sound system in a class all of its own.

The C/55PT consists of: Pre-amplifier; power amplifier (55W peak power, 30W RMS); monitor speaker with 5W monitor amplifier; high-low volume controls with linear faders; push-button input switch and a simple hinged plate for wall mounting and ease of installation.

The monitor speaker is round (100mm diameter) with a standard 16ohm impedance – and the monitor speaker amplifier will deliver 5W even when the auditorium uses only 2W.

The C/55PT system incorporates three printed circuit boards: Input switching; pre-amplifier, auditorium volume and tone control; power amplifier and monitor speaker amplifier. As an optional extra, a motorised volume control can be quickly added.



C/100PT2A

The new C/100 PT2A is a highly sophisticated and totally automated system which provides cinema sound for two projectors when these are operated by automation equipment within the projection booth.

This system utilises either C/100 or C/200 power amplifier modules*, together with POS/65 and NSS/65 pre-amplifier modules*. Two POS/65 modules are provided – one for each projector and one NSS/65 module for intermission music.

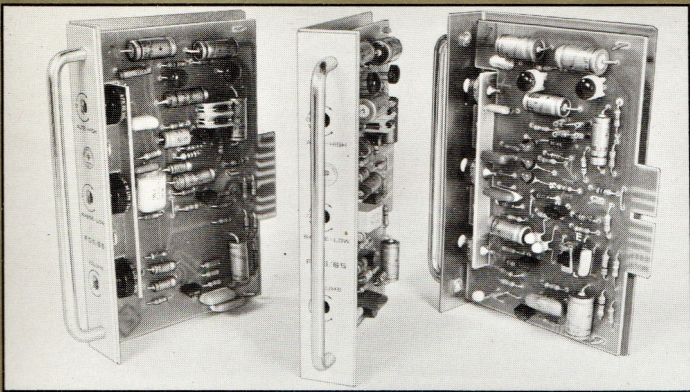
The main top panel – which is easily removed for servicing – incorporates the three quick-change pre-amplifier modules; volume control with digital display panel; VU metering; monitor speaker volume control, together with all associated circuitry. Facilities for either 8 track stereo or autoreverse cassette players are also available.

Volume is controlled by a 24 step motorised fader which also includes signal circuitry to control the digital displays on both the main panel and a remote control console (with the required terminal board).

Beneath the main panel, two C/100 or C/200 modules are mounted and a third panel carries mains switch, pilot light and fuses.

As an option, this third panel can be fitted with a dual volume level unit which allows two volume levels – one low, one high – to be preset. The volume control motor pulse, started by button or through the automation cabinet, stops automatically at the preset level allowing totally automated fade in and fade out.

* see specification overleaf.



Three different preamplifier modules are available for use in conjunction with the sound systems. They are (left to right): POS/65 for optical sound; PMS/65 for magnetic sound; NSS/65 for non-sync. The modules incorporate printed circuit boards and quality components and each have their own LED indicator light.

C/100PT2E C/100PTT6

C/100PT2E

The C/100 PT2E cinema sound system, as with the more sophisticated C/100 PT2A, utilises either C/100 or C/200 power amplifier modules together with POS/65 and NSS/65 preamplifier modules, but whilst similar in construction (the cabinet dimensions are the same for both models) differs considerably in function.

This system, having an excellent performance/cost ratio, has been designed for 'standard' installations where full automation within the projector booth is not available.

The main top panel incorporates: Volume control; monitor speaker control; VU metering and non-sync ON/OFF switch. Volume is operated by a potentiometer type control which is available in a motorised version (optional).

C/100PTT6

Designed for 70mm and 35mm magnetic and optical presentations, the C/100 PTT6 is a complete cinema sound system comprising Power Amplifier assembly, Preamplifier assembly and System Control unit.

Power Amplifier

As with the PT2A and PT2E systems, this power amplifier utilises either

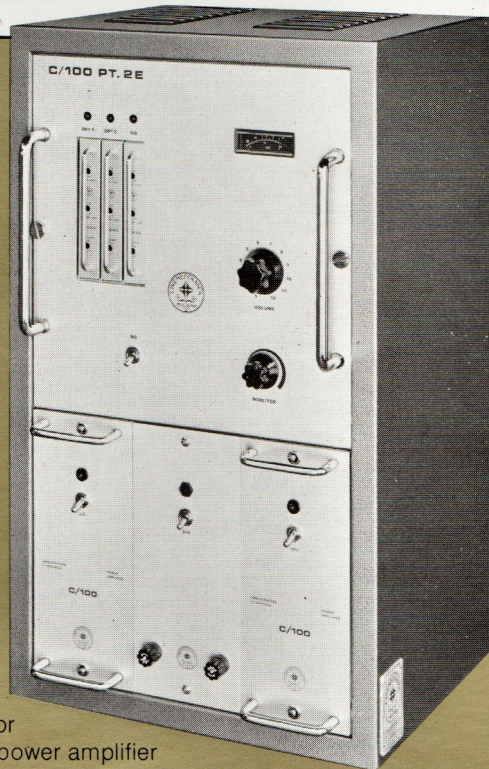
C/100 or C/200 power amplifier modules – eight in all. Six of these modules feed the cinema speakers, the seventh is used for a monitor speaker and the remaining one used as a spare. This unit can be used for 35mm optical working only with the added possibility of later additions for magnetic.

System Control Unit

Intended for mounting on the projector booth wall, this unit is designed to centralise the control of sound changeover; system selection; volume; effects switching; non-sync preamplifiers and power supply.

Preamplifier Assembly

Up to 12 transistorised preamplifier modules can be contained within this unit – six for 70mm magnetic sound; four for 35mm magnetic sound; one for optical sound and one optical spare.



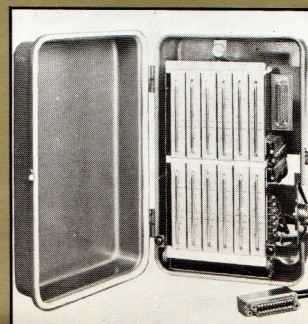
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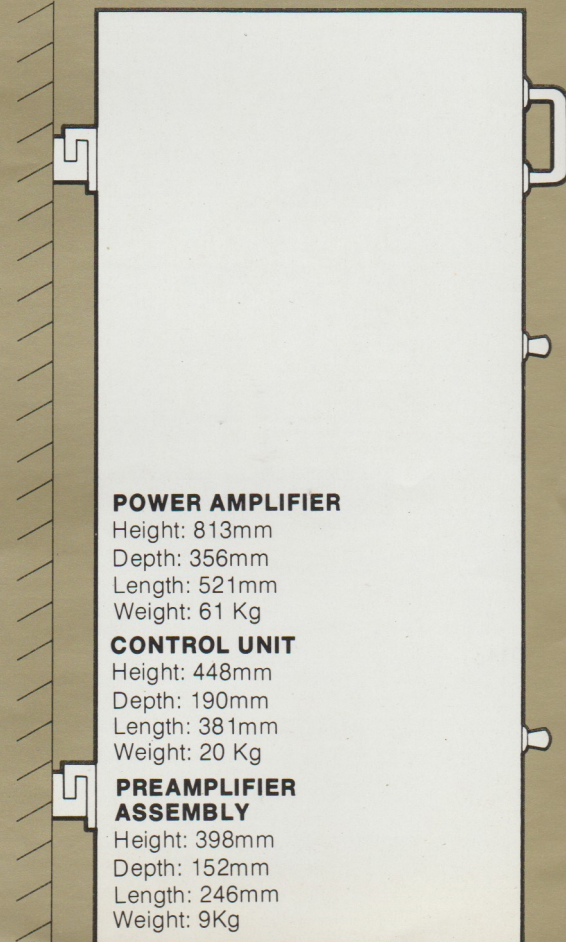
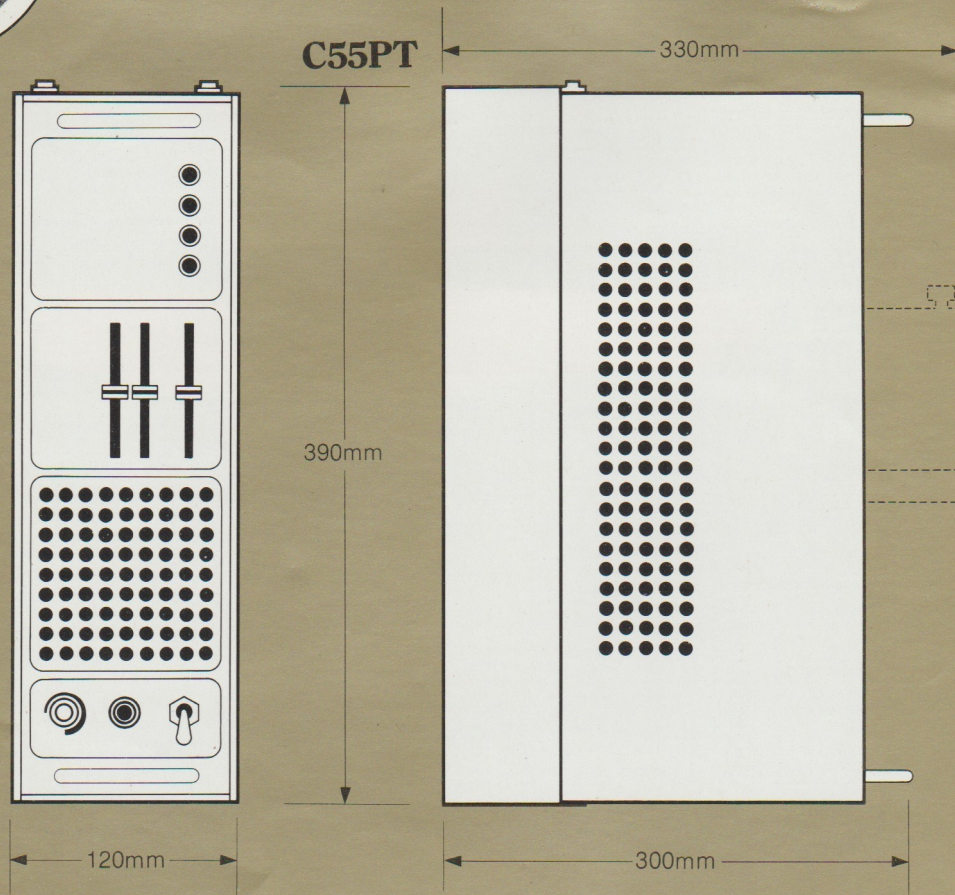
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Dimensions



POWER AMPLIFIER

Height: 813mm
Depth: 356mm
Length: 521mm
Weight: 61 Kg

CONTROL UNIT

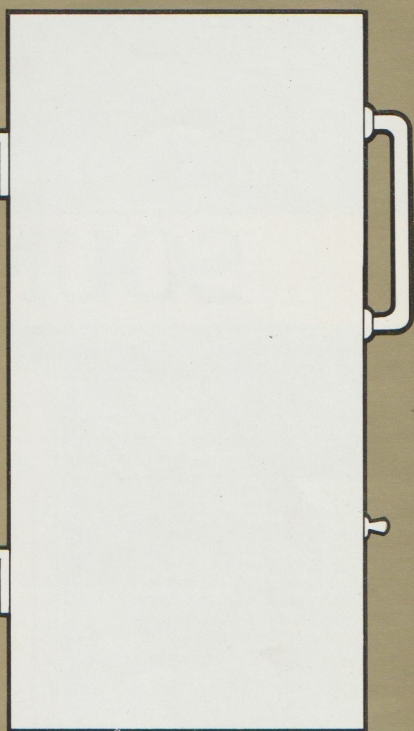
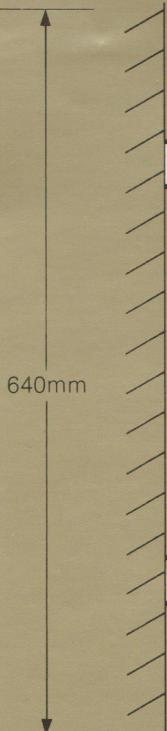
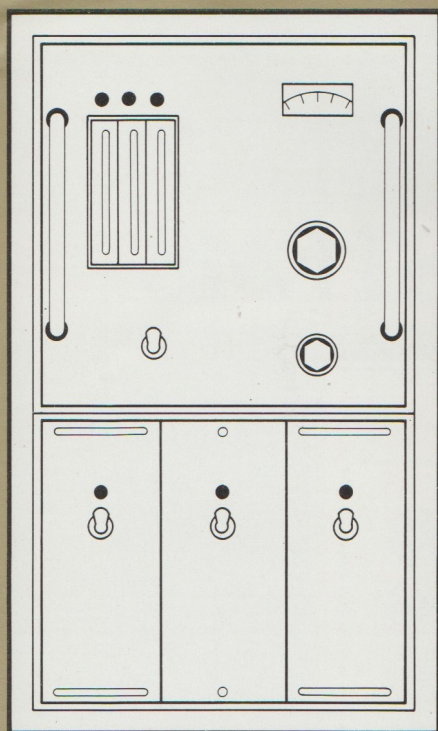
Height: 448mm
Depth: 190mm
Length: 381mm
Weight: 20 Kg

PREAMPLIFIER ASSEMBLY

Height: 398mm
Depth: 152mm
Length: 246mm
Weight: 9Kg

C/100 PTT6

C/100PT2E



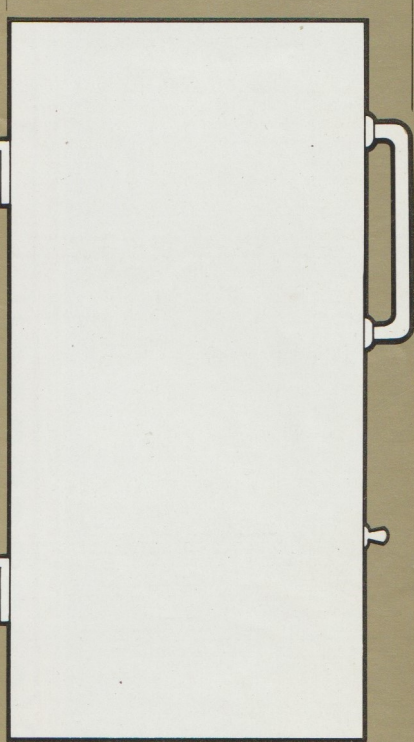
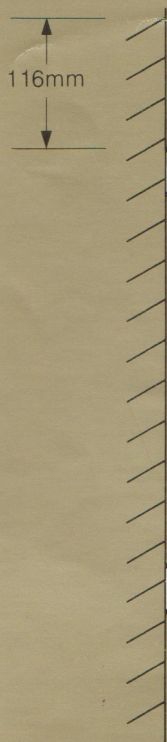
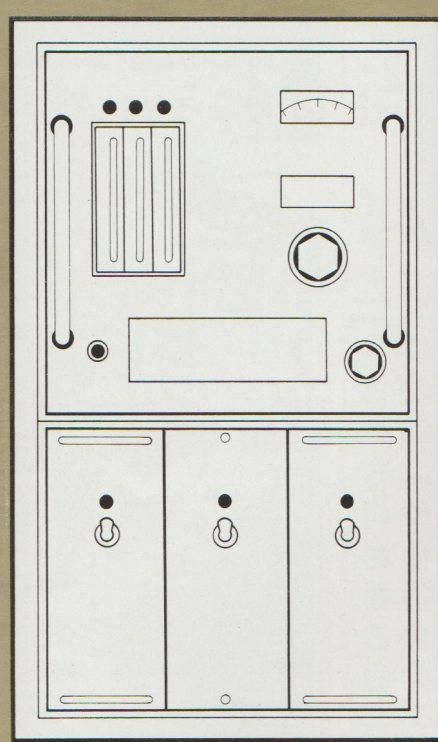
382mm

640mm

320mm

45mm

360mm



116mm

C/100PT2A



Specification

C55PT

SUPPLY:
120-220-240V. 50/60Hz at 90VA.

INPUTS:
Optical sound head with cell-diode (solar) switch. Ceramic disc pick up.
Sensitivity: 100mV. Impedance: 1M ohm.
Auxiliary sensitivity: 100mV.
Impedance: 100k ohm.
Tape: 100mV - 100k ohm.

OUTPUT:
For speakers from 6 to 16 ohm power:
30W+0-2dB.
From 20Hz to 20kHz:
distortion at 28W, 1000Hz: 0.3%.

TONE CONTROLS:
H.F. control: +8-8dB at 10kHz.
L.F. control: +8-8dB at 100kHz.

SIGNAL/NOISE RATIO:
64dB.

MONITOR SPEAKER:
Separate amplifier output: 5W.
Speaker: 100mm dia., 16 ohm.

DIMENSIONS:
390mm high, 120mm wide, 300mm deep.

NET WEIGHT:
10Kg (approx).

C/100 MODULE

SUPPLY VOLTAGE:
117-220 240V ac \pm 15%. 50-60Hz.

LINE FUSE:
0.8A (220-240V) or 1.6A (117V) slow blow.

POWER CONSUMPTION:
130 VA max.

POWER OUTPUT:
(f1 kHz T.H.D. 1%) \geq 55W RMS.
(f1 kHz T.H.D. 10%) \geq 67W RMS.

T.H.D. BELOW CLIPPING:
 \leq 0.1%

INPUT IMPEDANCE:
 \geq 20 K ohm.

OUTPUT IMPEDANCE:
8 ohm.

INPUT SENSITIVITY:
(f1 kHz) 1V \pm 1.5dB.

OUTPUT FUSE:
2.5A slow blow.

TEMPERATURE OPERATING RANGE:
0°-45°C

COOLING:
Natural Convection.

POS/65 Optical Pre-amp Module

Output impedance: 600 ohm
Maximum output: 22dBm
Gain: 40dB
Signal-to-noise Ratio: 66dB
Input impedance: 100,000 ohm.

C/200 MODULE

SUPPLY VOLTAGE:
117-220-240V ac \pm 15%. 50-60Hz.

LINE FUSE:
0.8A (220-240V) or 1.6A (117V) slow blow.

POWER CONSUMPTION:
200VA max.

POWER OUTPUT:
(f1 kHz T.H.D. 1%) \geq 98W RMS.
(f1 kHz T.H.D. 10%) \geq 120W RMS.

T.H.D. BELOW CLIPPING:
 \leq 0.1%.

INPUT IMPEDANCE:
 \geq 20 K ohm.

OUTPUT IMPEDANCE:
8 ohm

INPUT SENSITIVITY:
(f1 kHz) 1V \pm 1.5dB

OUTPUT FUSE:
3.15A slow blow.

TEMPERATURE OPERATING RANGE:
0°-45°C

COOLING:
Natural Convection

PMS/65 Magnetic Pre-amp Module

Output impedance: 600 ohm
Maximum output: 22dB
Equalised Gain
(at 1000Hz): 72dB
Signal to noise Ratio: 62dB
Distortion: 0.8% (max)

