



This lightweight, class AB amplifier has been designed to the same high standards of reliability and sound quality that our customers have come to expect of all MC² audio products.

Proprietary current driven output stages give exceptional transient response and a resonant switchmode power supply with a large reservoir gives extremely high peak power without any "bass sag".

Optical limiters keep mains input and output currents within a safe operating area at all times, whilst maintaining transparent sonic performance.

The amplifier features automatic impedance sensing and changes the power accordingly and coupled with user switchable Power Reduction Control, allows different speaker loads to be more safely connected to each channel.

Main Specifications

Output Power (per channel): 8 ohms: 775W, 4 ohms: 900W

Measured using continuous music with Crest Factor of 4.8 (14dB)

Output Power (bridged): 8 ohms: 1800W

Measured using continuous music with Crest Factor of 4.8 (14dB)

THD: (@1dB below maximum output power) @ 1kHz < 0.008%, 20Hz to 20kHz < 0.03%

Gain / Sensitivity: Gain 26/31/32dB Sensitivity (for maximum power) +11.0/6.0/5.0dBu (2.7/1.5/1.4V)

Frequency Response: 20Hz to 20kHz (+0.3dB)

Power Consumption: Nominal @ 240V into 4 ohms 2.7A, Nominal @ 120V into 4 ohms 5.4A

Dimensions: Amplifier (2U) (mm/in) 88/3.5(h) x 482/18.9(w) x 428/16.8(d)

Boxed (shipping size - UK) 230/9.0 x 580/22.8 x 560/22.0 (Single boxed)

Boxed (shipping size - all except UK) 250/2.8 x 610/24.0 x 600/23.6 (Double boxed)

Weight: Amplifier 10.6kg(23.3lbs), Boxed (shipping weight) 12.6kg(27.7lbs)

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Additional Specifications

Input Impedance: 20k ohms (Active balanced)

Input CMRR: > 60dB **Damping Factor:** > 400 (8 ohms / 1kHz)

SNR: Better than 105dB (unwtd, 22Hz-22kHz)

Signal Limiters: Operate at maximum power to prevent excessive clipping.

Protection: Output short circuit, DC output, over-temperature, mains in-rush control.

Output Power:

Continuous sine wave @ 1kHz (per channel): 725W (8R), 750W (4R), ---- (2R)

Continuous music (with Crest Factor of 2.8 (9dB)): 750W (8R), 825W (4R), ---- (2R)

Continuous music (with Crest Factor of 4.8 (14dB)): 775W (8R), 900W (4R), ---- (2R)

Continuous music (with Crest Factor of 7.8 (18dB)): 825W (8R), 900W (4R), ---- (2R)

For details of Power measurement methods please refer to the Technical Support area of our website.

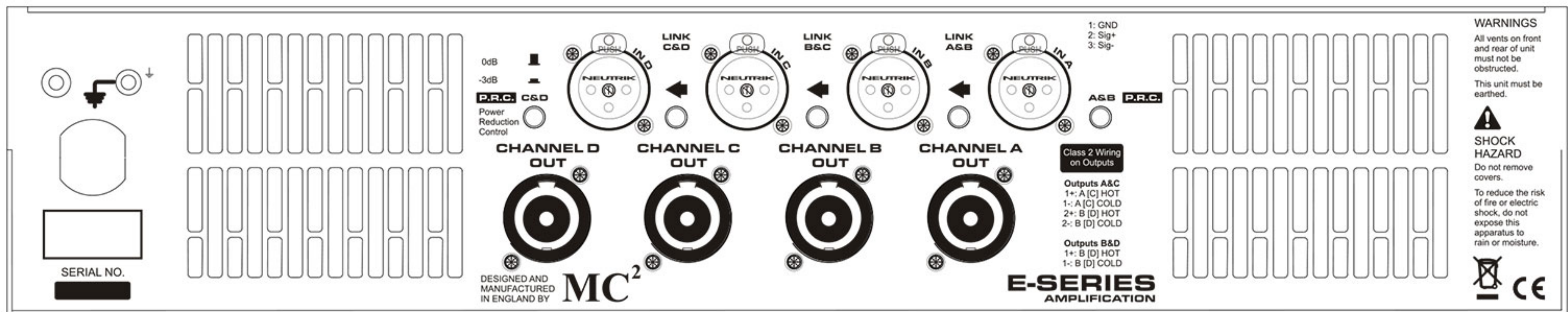
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Power Consumption & Thermal Emissions

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	1.2	1.7	2.5	4.7	288	319	367	494
240	4	1.2	1.8	2.7	5.0	288	321	379	515
240	2	.	.	.	.	.	.	.	.
120	8	2.4	3.4	5.0	9.4	288	319	367	494
120	4	2.4	3.6	5.4	10.0	288	321	379	515
120	2	.	.	.	.	.	.	.	.

No Sig'l = Quiescent, Light = Crest Factor of 7.8(18dB), Average = Crest Factor of 4.8(14dB), Heavy = Crest Factor of 2.8(9dB)
For details of measurement methods please refer to the Technical Support area of our website.

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Controls, Indicators & Connectors

Front Panel: 4 x Level Controls, 1 x Power Switch, 1 x Power LED (green),
4 x 5 point LED level indicators, 2 x PRC Active LEDs (green)
1 x Protection Active (red),

Rear Panel: 3 x Channel Link switches
2 x PRC level selector switches
4 x Neutrik Speakon output connectors (4 pole)
4 x Neutrik XLR female connectors (audio input)
Captive mains cable

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Architect's and Engineer's Specification

The power amplifier shall be a 4 channel class AB* design with a minimum guaranteed power of 450W into 8R (20Hz to 20kHz). THD shall be better than 0.03% (20Hz to 20kHz) and the signal to noise ratio shall exceed 105dB (wtd). Minimum load shall be 2R, and 4R in bridge mode. Input sensitivity shall be +5.0dBu for full power output. Frequency response shall be 20Hz to 20kHz (± 0.25 dB). The front panel shall have individual input level controls with a 5 point LED meter showing output level and onset of limiting and power reduction. A front panel non-isolating main power switch shall be fitted.

The rear panel shall have outputs on Neutrik Speakon connectors, with two connectors being wired to allow channel pairs to be accessed from a single plug (4 pole). The audio inputs shall be on Neutrik 3 pole XLR connectors. Switching of each pair of channel's PRC (Power Reduction Circuit) shall be on one switch per pair offering a 3dB reduction on available output power. Inputs to channels shall be linkable via 3 channel link switches.

The amplifier shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 43cm X 48cm and a weight of 10.6kg. AC mains supply shall be nominal 240V/120V, 50/60Hz.

The amplifier shall be designated the MC² E4-75.

*with "switching" PSU