



This top of the range, no-compromise, ultra high-quality amplifier has sonic performance that is comparable to the very best hi-fi amplifiers, only much more powerful.

Since its introduction in October 1997, this technologically innovative, digitally controlled amplifier has been designed to be used in studios, clubs and a wide variety of fixed installations.

Despite the sophistication of the amplifier, its modular design makes it remarkable easy to work with and has the option of crossover cards.

The unique current driven drive stage adds an extra dimension to the bass dynamics, ensuring very accurate reproduction of transients couple with a natural "openness" not usually found in amplifiers of this type. The sophisticated microcontroller ensures that this performance is maintained over a wide range of temperatures and loads.

The heatsinks have been specifically designed to maximise efficient heat exchange allowing the MC750 to be run "flat out", all night in the most arduous of conditions.

## Main Specifications

**Output Power (per channel):** 8 ohms: 625W, 4 ohms: 1075W, 2 ohms: 1325W\*  
**Output Power (bridged):** 8 ohms: 2150W, 4 ohms: 2650W  
**THD:** (@1dB below maximum output power) @ 1kHz<0.007%, 20Hz to 20kHz<0.03%  
**Gain / Sensitivity:** Gain 31dB Sensitivity (for maximum power)+6dBu (1.50v)  
**Frequency Response:** 20Hz to 20kHz (+0dB / -0.5dB)  
**Power Consumption:** Nominal @ 240V into 4 ohms 2.3A, Nominal @ 120V into 4 ohms 4.6A  
**Dimensions:** Amplifier (2U) (mm/in) 88/3.5(h) x 480/18.9(w) x 410/16.1(d)  
 Boxed (shipping size - UK) 230/9.1 x 580/22.8 x 560/22.0 (Single boxed)  
 Boxed (shipping size - all except UK) 250/9.8 x 610/23.4 x 600/23.6 (Double boxed)  
**Weight:** Amplifier 18.5kg(40.7lbs), Boxed (shipping weight) 20.6kg(45.3lbs)

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## Additional Specifications

**Input Impedance:**20k Ohms (Active balanced)Damping Factor:>400 (8 ohms / 1kHz)  
**Input CMRR:** >60dB  
**Hum & Noise:** Better than -106dB  
**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): 375W (8R), 800W (4R), 1300W (2R)  
 Continuous music (with Crest Factor of 2.8 (9dB)):575W (8R), 975W (4R), 1300W (2R)  
 Continuous music (with Crest Factor of 4.8 (14dB)):625W(8R), 1075W(4R), 1325W (2R)\*  
 Continuous music (with Crest Factor of 7.8 (18dB)):650W(8R), 1175W (4R),1450W (2R)

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

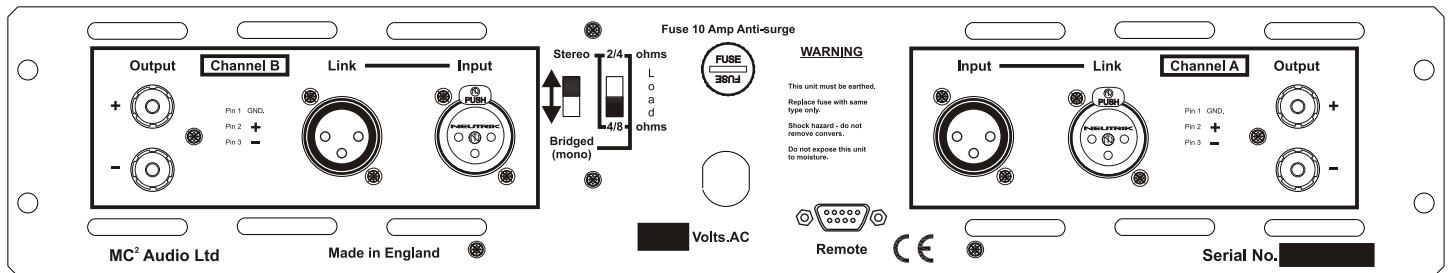
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### Power Consumption & Thermal Emissions

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	0.5	0.9	1.6	3.2	120	144	183	278
240	4	0.5	1.2	2.3	5.0	120	163	229	388
240	2	0.5	1.4	2.8	6.5	120	174	254	478
120	8	1.0	1.8	3.1	6.3	120	144	183	278
120	4	1.0	2.5	4.7	10.0	120	163	229	388
120	2	1.0	2.8	5.5	13.0	120	174	254	478

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:** 2 x rotary encoders (level), 1 x power switch, 1 x power on indicator (green)  
2 x mute switch, 1 x level control link switch  
2 x limiter active indicators (yellow), 2 x 6 LED peak level meters  
1 x temperature warning indicator (red), 1 x bridged mode indicator (green)  
1 x channels linked indicator, 1 x 2 ohm operation indicator  
2 x fault/DC indicators

**Rear Panel:** 1 x Bridged mode selector switch, 1 x 2 ohm / 4 ohm selector switch  
2 x pair 4mm shrouded binding posts (speaker outputs)  
2 x Neutrik XLR 3 pole female connectors (audio input)  
2 x Neutrik XLR 3 pole male connectors (audio link output)

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### Architect's and Engineer's Specification

The power amplifier shall be a 2 channel class AB design with a minimum guaranteed power of 625W into 8R (20Hz to 20kHz). THD shall be better than 0.03% (20Hz to 20kHz) and the signal to noise ratio shall exceed 106dB (unwtd). Minimum load shall be 2R, and 4R in bridge mode. Input sensitivity shall be +6.0dBu for full power output. Frequency response shall be 20Hz to 20kHz ( $\pm 0.25$ dB). The front panel shall have individual rotary encoder level controls with a link switch and a front panel mains power switch shall be fitted that isolates the entire mains supply. The front panel shall have 6 point peak level meters per channel and indicators for limiter active (per channel), power, bridge, 2-ohm mode, temperature warning and protect/fault. The rear panel shall have 2 pairs of outputs (per channel) of 4mm shrouded binding posts. The audio inputs shall be on Neutrik 3 pole XLR connectors, with link outputs also on XLR connectors. Mode (stereo & bridge/mono) and load selection switching shall be on the rear panel. Optional 24dB/Oct. crossover cards shall be available for internal fitting. The amplifier shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 48cm X 41cm and a weight of 18.5kg. AC mains supply shall be nominal 240V, 50/60Hz. The amplifier shall be designated the MC² MC750.