



The most powerful four channel amplifier MC² has ever made, the E100 has been designed to meet demands for higher power and increased efficiency, whilst still maintaining the renowned sonic qualities and unsurpassed reliability associated with all our amplifiers.

Proprietary class-D technology with a dual feedback loop system gives exceptional transient response and a resonant switchmode power supply with a large reservoir gives extremely high peak power without any "bass sag".

Running cool in even the most difficult conditions, the E100 can deliver over 2500W into 4 ohms with all channels driven, and a massive 2 x 7400W bridged (4R), with outstanding distortion and noise figures right up to maximum output.

Newly designed limiters, linked to the output current monitors and power supply, keep mains input and output currents within a safe operating area at all times, whilst maintaining transparent sonic performance.

Main Specifications

Output Power (per channel): 8 ohms: 1400W, 4 ohms: 2800W, 2 ohms: 3700W

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

Output Power (bridged): 8 ohms: 5300W, 4 ohms: 7400W

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

THD: (@1dB below maximum output power) @ 1kHz<0.08%, 20Hz to 20kHz<0.15%

Gain / Sensitivity: Gain 26/32/36dB Sensitivity (for maximum power)+16.0/10.0/6.0dBu (4.9/2.5/1.5V)

Frequency Response: 20Hz to 20kHz (±0.5dB)

Power Consumption: Nominal @ 240V into 4 ohms 7.0A, Nominal @ 120V into 4 ohms 14.0A

Dimensions: Amplifier (2U) (mm)88(h) x 482(w) x 428(d)

Boxed (shipping size - UK)230 x 580 x 560 (Single boxed)

Boxed (shipping size - all except UK)250 x 610 x 600 (Double boxed)

Weight: Amplifier 11.8kg(26.0lbs), Boxed (shipping weight) 13.8kg(30.4lbs)

E100

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): 1150W (8R), 2250W (4R), 3200W (2R)

Continuous music (with Crest Factor of 2.8 (9dB)): 1300W (8R), 2600W (4R), 3600W (2R)

Continuous music (with Crest Factor of 4.8 (14dB)): 1400W(8R), 2800W(4R), 3700W (2R)

Continuous music (with Crest Factor of 7.8 (18dB)): 1480W(8R), 2900W (4R), 3700W (2R)

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

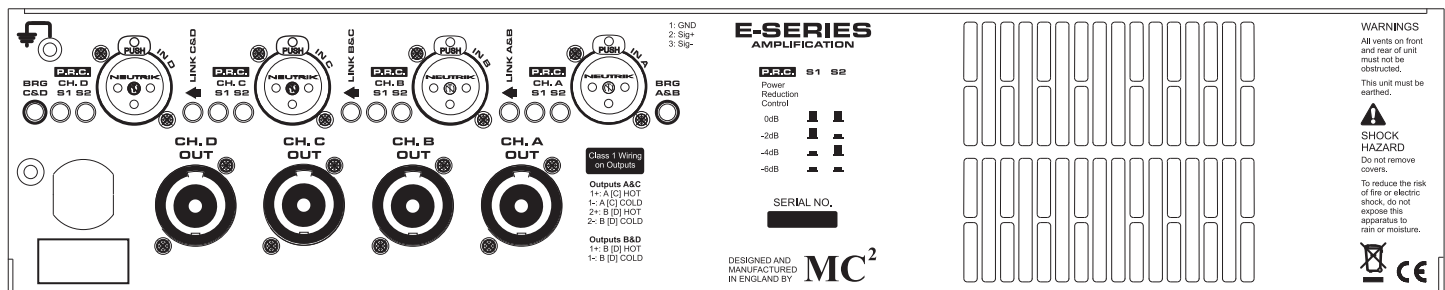
E100

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	2.1	3.0	4.5	8.3	504	528	566	660
240	4	2.1	3.9	7.0	14.4	504	551	628	816
240	2	2.1	4.5	8.6	19.1	504	564	668	936
120	8	4.2	6.0	9.0	16.6	504	528	566	660
120	4	4.2	7.8	14.0	28.8	504	551	628	816
120	2	4.2	9.0	17.2	38.2	504	564	668	936

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.

E100



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, 4 x PRC Active LEDs (green), 1 x Protection Active (red), 2 x Bridged Mode LEDs (yellow), 3 x Channel Link LEDs (yellow)
- Rear Panel:** 2 x Bridged Mode selector switches, 3 x Channel Link switches, 4 x 2 PRC level selector switches, 4 x Neutrik Speakon output connectors (4 pole), 4 x Neutrik XLR female connectors (audio input), Captive mains cable

E100

Architect's and Engineer's Specification

The power amplifier shall be a 4 channel class D design with a minimum guaranteed power of 1400W into 8R [20Hz to 20kHz]. THD shall be better than 0.15% [20Hz to 20kHz] and the signal to noise ratio shall exceed 105dB (wtd). The minimum load shall be 2R, and 4R in bridge mode. Input sensitivity shall be selectable between +6/10/16dBu for full power output. Frequency response shall be 20Hz to 20kHz (± 0.5 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 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. Mode switching between stereo/bridge shall be on the rear panel, with independent switches for channel pairs. Individual switching of each channel's PRC (Power Reduction Circuit) will be available on a pair of switches giving 2/4/6dB of power reduction. Inputs to channels shall be linkable via 3 channel link switches, with corresponding indication on the front panel.

The amplifier shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 48cm X 43cm and a weight of 11.8kg. AC mains supply shall be nominal 240V/120V, 50/60Hz. The amplifier shall be designated the MC² E100.