

The TLine is a passive transformer chassis that can be loaded with up to four channel's worth of impedance matching transformers.

These can be mixed and matched in a variety of power handling capabilities and are designed to operate with 100V line systems. Other specifications such as 50V or 70V line systems are available to special order.

Each channel's input Speakon connector takes the output connections from the amplifier (on pins 1+, 1-), and a corresponding connector carries the high voltage output from the channel's transformer (pins 2+, 2-).

To prevent saturation of the transformer core, amplifier channels should be fitted with high pass filters. All MC² amplifiers can be fitted with optional crossover cards, or have internal jumper links for this purpose (see relevant amplifier manual for further details).

Main Specifications

Rated Power Handling (per channel): @ 4 ohms: either 250W, 500W or 750W

Impedance refers to the input impedance seen by the amplifier channel

Output Impedance: @100V: 250W: 40.0R; 500W: 20.0R; 750W: 13.3R
@70V: 250W: 19.6R; 500W: 9.8R; 750W: 6.5R
@50V: 250W: 10.0R; 500W: 5.2R; 750W: 3.3R

THD: 50Hz to 16kHz < 0.03%

Frequency Response: 50Hz to 16kHz (±1dB)

Power Consumption: Not applicable (passive device)

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) 250/9.8 x 610/24.0 x 600/23.6 (Double boxed)

Weight: Chassis only 12kg(26.4lbs), Boxed (shipping weight) will vary depending on transformers fitted - see below.

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Additional Specifications

Transformer additional weights: 250W: +2.3kg per transformer
500W: +2.8kg per transformer
750W: +4.4kg per transformer

Transformer leadouts:

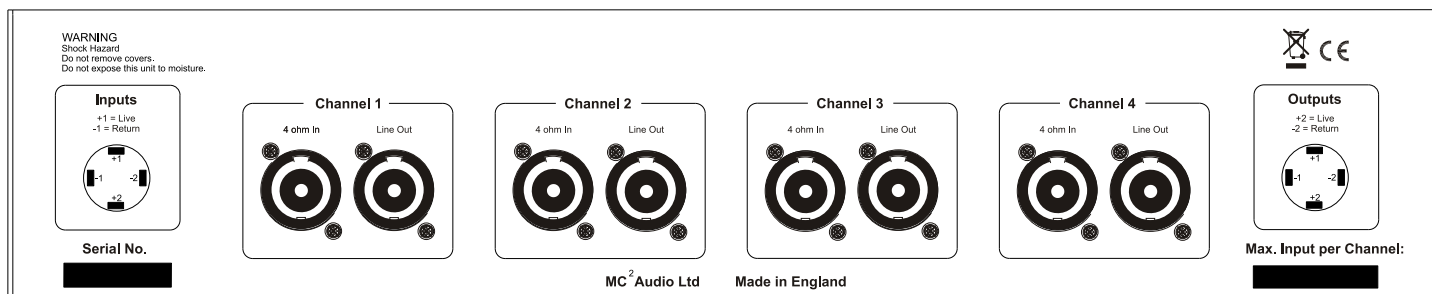
250W & 500W single 100V winding
Primary: Orange +ve, Black -ve (4R)
Secondary: Yellow +ve, Grey -ve, Blue C.T.
Centre tap (C.T.) connection is for monitoring purposes only and not for permanent use.
750W dual 50V + 50V windings
Primary: Orange +ve, Black -ve (4R)
Secondary 1: Yellow +ve, Blue -ve (50V)
Secondary 2: Green +ve, Grey -ve (50V)

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Power Consumption & Thermal Emissions

Not applicable (passive device).

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Controls, Indicators & Connectors

Front Panel: No front panel controls.

Rear Panel: 4 x Neutrik Speakon used as Input connectors (4 pole) (1+, 1-)
4 x Neutrik Speakon Output connectors (4 pole) (2+, 2-)

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Architect's and Engineer's Specification

The chassis shall contain four line matching transformers which can be combined in various operating powers - either 250W, 500W, or 750W to produce line output voltages suitable for operation with 100V line speakers systems. The frequency response of the transformers will be 50Hz - 16kHz (± 1 dB) and the THD shall not exceed 0.03%.

There will be no front panel controls. The rear panel shall have connections to the input and output of each channel's transformer on Neutrik Speakon connectors.

The chassis shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 48cm X 43cm and an unpopulated weight of 12.0kg.

Transformers will increase the weight in accordance with their power handling requirements, adding 2.3, 2.8 and 4.4kg respectively for 250W, 500W and 750W devices.

The device shall be passive and as such will require no external power to operate.

The device shall be designated the MC² TLine.