

# E90

lightweight  
touring amps

## E Series Power Amplifiers

The **E90** is the newest addition to the **E Series**. Based on new MC<sup>2</sup> proprietary Class-D technology, it has been designed to meet the demands for higher power with increased efficiency whilst still maintaining the renowned MC<sup>2</sup> sonic qualities and unsurpassed reliability. Running cool even in the most difficult conditions, the **E90** can deliver up to 4500 W into 4 ohms and a massive 8000 W into 2 ohms, with outstanding distortion figures.

The sophisticated MC<sup>2</sup> power control circuits keep the amplifier operating within safe limits and allow it to be operated on standard mains supplies. Together with its switchmode power supply and huge power reservoirs, the **E90** delivers large peaks of energy, producing effortless bass delivery with no perceivable 'sag'. The **E90**'s lightning fast transient response, ultra high-definition sound and high efficiency have all contributed to creating a stunning addition to the **E Series**, whose amazing audio quality must be heard to be believed.

The **E Series** amplifiers bring the well renowned MC<sup>2</sup> Audio sound quality and reliability to a wider range of users.

All MC<sup>2</sup> products come with a full 5-year warranty.

## Features

- MC<sup>2</sup> proprietary Class-D technology with Dual Feedback Loop system for lightning fast transient response, ultra high-definition sound and high efficiency.
- Resonant Switchmode power supply with large power reservoir giving extremely high peak power without any bass 'sag'.
- All new Over Load (O-Load) limiters, linked to the output current monitors (specific to the **E90**) and the power supply, keep mains input and amplifier output currents within a safe operating area at all times, whilst maintaining transparent sonic performance.
- All new low distortion limiters with adjustable threshold points for extra speaker protection.
- Power Reduction Circuit (PRC) controls on rear panel, linked to the limiter threshold which allow each channel to be independently set so that different loudspeakers can be connected to each channel with safety.
- Full DC, thermal and individual short circuit protection, which automatically disconnects the outputs under a fault condition.
- Soft start 'power on' with full in-rush protection.
- Lightweight, aluminium construction.
- Weighs around 11.5 kg
- 5-year warranty



MC<sup>2</sup>  
AUDIO

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[www.mc2-audio.co.uk](http://www.mc2-audio.co.uk)

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### TECHNICAL SPECIFICATION

# E90

<b>Output Power (watts RMS) per channel</b>	
8 ohms @ 1kHz	2000 W
4 ohms @ 1kHz	4500 W
2 ohms @ 1kHz	8000 W
<b>Mono Bridged</b>	
8 ohms @ 1kHz	9000 W
4 ohms @ 1kHz	16000 W
<b>Power Reduction Control</b>	-2 dB/-4 dB/-6 dB
<b>THD @ rated power, 4 ohms</b>	
1 kHz	<0.1%
20 Hz – 20 kHz	<0.15%
<b>Input CMRR</b>	>90 dB
<b>Hum &amp; Noise</b>	-108 dBA
<b>Gain (selectable)</b>	+32/+35.75/+38 dB
<b>Sensitivity (for rated output, 4 ohms)</b>	+12.75/+9.75/+6 dBu
<b>Damping Factor 1 kHz, 8 ohms</b>	>400
<b>Frequency Response</b>	20 Hz-20 kHz $\pm$ 0.5 dB
<b>Input Impedance (actively balanced)</b>	20k ohms
<b>Dimensions – 2U</b>	88 x 482 x 428 mm
<b>Weight</b>	11.5 kg
<b>Power Requirement</b>	230 VAC @ 15 A nominal (4 ohm load) 115 VAC @ 30 A nominal (4 ohm load)
<b>Efficiency</b>	Up to 84% (Plug to plug)
<b>Connectors</b>	
Input	XLR 3 pin
Outputs	Speakon 4-pole
<b>Controls Front Panel</b>	
	2 x Level control 1 x Power switch
<b>Controls Rear Panel</b>	
	1 x Chan. link switch 4 x PRC switches (2 per channel)
<b>Indicators</b>	
	Power/Protect/PRC Bridge/2 x Bargraph

