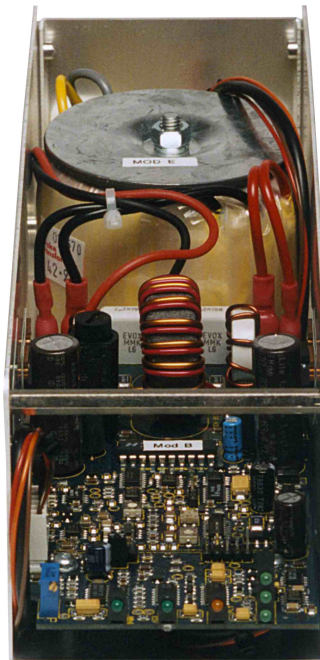


M100 100 W Amplifier Assembly



DESCRIPTION

The M100 is one of a range of high efficiency Class D Amplifiers for Public Address and Voice Evacuation applications. The amplifier is part of a modular system, and is housed in a V400 Amplifier Mainframe. The Amplifier Mainframe can carry various amplifier types, and carries interface cards which contain the amplifier's monitoring electronics. The M100 will deliver 100 W to a 100 V loudspeaker line, even with the Amplifier Mainframe's 230 V mains supply absent and right down to a 21 V battery supply voltage.

The unique design negates the need to 'sleep' the amplifiers when in quiescent state. This improves efficiency and reduces heat dissipation.

For further details, and for information on other products, please visit www.asl-electronics.co.uk.

SPECIFICATION

General

Output Power	100 W (@ 100 V RMS down to 21 V battery supply) See Note ¹ regarding performance when on 230 V mains supply
Output Voltage and Input Sensitivity	100 V RMS into 100 Ω load for 0 dBu 1 kHz input signal
Regulation	No load to full load, better than 1.5 dB
Efficiency	80%
Frequency Response	100 Hz – 18 kHz (± 3 dB)
Total Harmonic Distortion (@ 100 V RMS output, full load)	<0.5%
Residual Noise	Better than 80 dB (A-weighted) below full output
Quiescent Current (no signal, @ 24 V supply)	70 mA
Quiescent Current (with typical surveillance signal, @ 24 V supply)	140 mA, nominal
Quiescent Current in Sleep State	50 mA
Full Power Current (worst case 21 V battery supply)	6.25 A
Fusing	1 x F6.3A 20 mm

Dimensions and Weight

Dimensions (H x W x D)	79 mm x 79 mm x 280 mm
Weight	1.6 kg

Environmental

Temperature (Storage and Operating)	-5 °C to +50 °C
Humidity Range	0% to 93% Non-condensing

¹ ASL amplifiers are specified to deliver their rated power at the lowest battery voltage (21 V). However, on mains power they can produce full output, with normal programme material, into loads 25% greater than those specified. The M100 will deliver full output with 125 W of load connected.



This equipment is designed and manufactured to conform to the following EC standards:

EMC EN 55103-1 Environment E1, EN 55103-2 Environment E5

Safety EN60065

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