

M100 - 100W Amplifier Assembly



M100

Product 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.

General

Output Power

100 W (@ 100 V RMS down to 21 V battery 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)

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Total Harmonic Distortion (@ 100 V RMS output)

<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

79mm (H) x 79mm (W) x 280mm (D)

Weight

1.6 Kg

Environmental

Temperature (storage and operating)

-5 °C to +50 °C

Humidity Range

0% to 93% Non-condensing

Category

Voice alarm