

## M400 - 400W Amplifier Assembly



M400

### Product Description

The M400 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 M400 will deliver 400 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 25  $\Omega$  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 ( $\pm 3$  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)**

90 mA

**Quiescent Current (with typical surveillance signal, @ 24 V supply)**

150 mA, nominal

**Quiescent Current in Sleep State**

70 mA

**Full Power Current (worst case 21 V battery supply)**

25 A

**Fusing**

2 x F15A 1¼"

### *Dimensions and Weight*

**Dimensions**

79mm (H) x 316mm (W) x 290mm (D)

**Weight**

4.9 Kg

### *Environmental*

**Temperature (storage and operating)**

-5 °C to +50 °C

**Humidity Range**

0% to 93% Non-condensing

**Category**

Voice alarm