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# MA50

2 X 25W Mini Amplifier

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[www.goldingaudio.co.uk](http://www.goldingaudio.co.uk)

The MA50 has been designed specifically for use in permanent audio installations where high reliability and premium sound quality are required. The compact size and reliable design with power saving feature, make this amplifier perfect for situations where power will be permanently on for indefinite periods of time.

With a highly efficient class D amplifier capable of delivering 2 X 25W into 8 ohms or 1 X 50W into 4 ohms the MA50 is the ideal product for a wide variety of installations.

### **Features**

- Highly efficient 2 X 25W Class D Amplifier
- Compact unit with integral fixing points
- Detachable screw terminals for ease of installation
- Bridgeable to 50W mono
- Power save functionality
- Separate attenuation for left and right channels
- Separate Bass and Treble controls
- Protected against short circuits and overloads
- 3.5mm Jack or Screw terminals for Line input
- 2.1mm DC Jack or Screw terminals for PSU connection

### **Applications**

- Meeting room A/V installations
- Classroom A/V installations
- Interactive kiosks
- Point of Sale
- In-vehicle sound systems
- Voice alarm systems
- Intruder warning systems
- Digital Signage

### **MONO mode.**

Feed signal into right channel, set MONO switch to on. Connect Left+ to right+, connect Left - to right-, connect speaker to + and - of the paralleled channels.

### **Auto power up.**

The Amp will power on if it receives a signal above 30mV or 150mV. (depending on gain set dip switches)

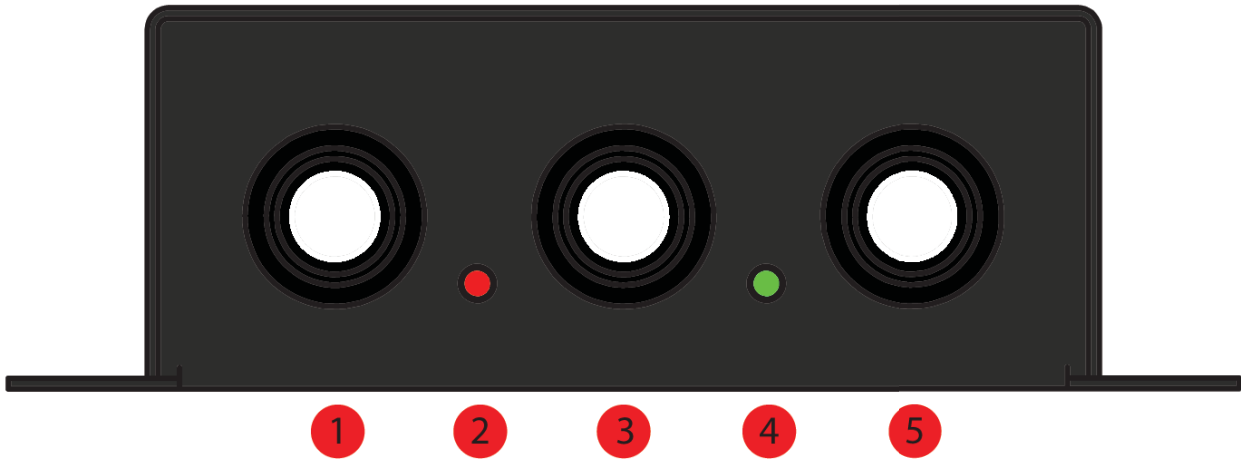
The amp will shut-down if no input signal is detected for 5 minutes. Shut-down mode turns off the main power amp.

### **LED's Status**

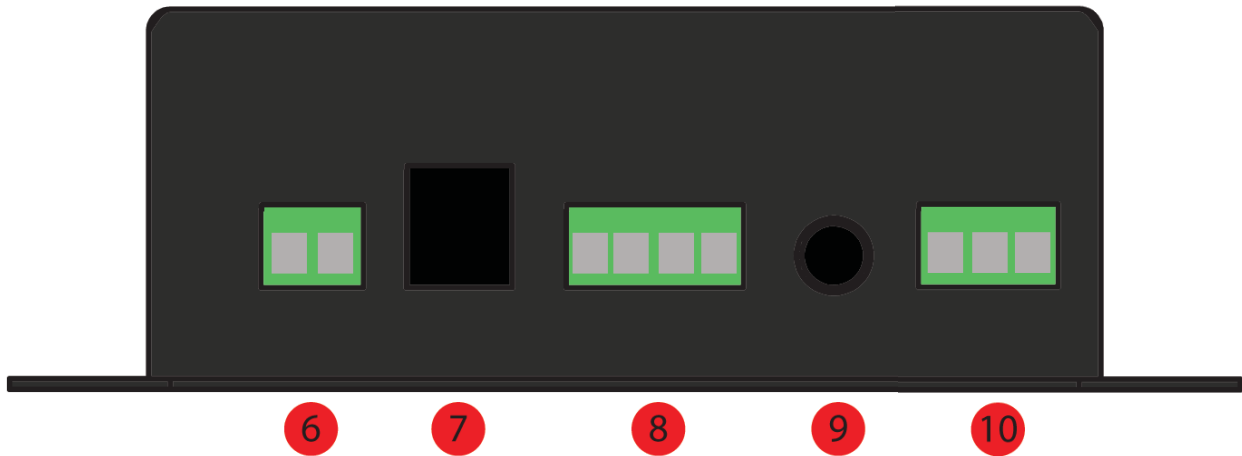
Green on	Amp On
Red on	Amp standby
Red flashing	Overheat
Red and Green on	Powering up or down.

# Connection and Controls

FRONT VIEW



REAR VIEW



SIDE VIEW



## 1. Volume Control

This control set's the output level for the amplifier.

## 2. Standby LED (RED)

See LED Status section for more information

## 3. Bass Control

This control adjusts low frequencies centered at 100Hz

## 4. Amplifier On LED (Green)

See LED Status section for more information

## 5. Treble Control

This control adjusts high frequencies centered at 10KHz

## 6 + 7. DC Power Input

12 – 24 VDC 3Amps

(>20v required for full output with 8R speakers)

Detachable 2 way phoenix connector or 2.1mm DC power jack

## 8. Speaker Output

Detachable 4 way phoenix connector. Please refer to **Mono Mode** section for details on bridged wiring.

**NOTE:** This amplifier uses floating outputs, no speaker connections to be connected to ground or 0V DC.

## 9 + 10. Line In

Detachable 3 way phoenix connector or 3.5mm Stereo jack.

Accepts standard line level signal from conventional consumer devices such as MP3 players, CD/DVD players, Laptops and TV receivers.

## 11. Option DIP switches

- |       |  |
|-------|--|
| Dip 1 | Set unit to MONO, feed signal into RIGHT channel only (left not used)  |
| Dip 2 | Low Pass Filter on right channel                                       |
| Dip 3 | Left Channel attenuation.<br>On for +4dBu input , off for -10dBu input |
| Dip 4 | Right Channel attenuation<br>On for +4dBu input , off for -10dBu input |

## Electrical specification.

Operating Voltage	12-24V DC, 3A
Current Draw	Standby <35mA On with no signal <70mA Full Power 3A max
Output (12V supply)	2 X 15W into 4 ohms 1 X 30W into 4 ohms
Output (24V supply)	2 X 25W into 8 ohms 1 X 50W into 4 ohms
Dip switch options	1 - Mono or Stereo 2 - Low Pass Filter 3 - Left Channel attenuation 4 - Right Channel attenuation
Auto power up levels	30mV or 150mV (depending on the attenuation dip switch)
Power up from standby time	2 seconds
Auto shutdown time	No input signal detected for 5 minutes
Connections	DC - 2.1mm DC Jack or Screw terminals Speaker Outputs - Screw terminals Line In - 3.5mm Stereo Jack or Screw Terminals
Frequency Response	20Hz to 25Khz
Status indicators	Green on - Amp On Red on - Amp standby Red flashing - Overheat Red and Green on - Powering up or down
Dimensions	115mm X 115mm X 36mm (W X D X H)