



# A 1936 250W 100V Line Amplifier Modules



This module is designed for use in emergency evacuation systems and are powered by an external 24V DC source. It accepts a line level audio input and produce a 100V line output via a transformer. It also features short circuit, overload and thermal cutout protection, and is constructed on a steel chassis. Designed with reliability and robust performance in mind, it is the ideal audio power source for evacuation systems, or any application which requires a DC powered 100V line amplifier.

## FEATURES

- Powered by 24V DC
- 100V line audio output
- Line level audio input
- Short circuit, overload, and thermal cutout protection
- Bolt-in chassis construction
- Australian designed and assembled

## INSTALLATION

### Connecting the Audio Source

The input connector for the audio source is the 3 way screw terminal block, J1 (see figure 1 for the PCB location and pinouts). This input may be used with balanced (3 wire) or unbalanced (2 wire) audio sources. When connecting an unbalanced (2 wire) source, jumper the ground and -ve connections on the terminal connector.

The amp module's input is suitable for impedances between 600Ω and 10kΩ. The high impedance of 10kΩ enables multiple amplifier units to be paralleled together when driven from a low impedance source ie 600Ω.

Connect 24-28V DC to the power supply input as per fig.1. Ensure that the power supply is capable of providing the necessary current (see specifications).

Connect the output load to the terminals shown in fig.1. Ensure that the speaker load impedance is not less than the specified minimum (see specifications).

The overload LED will illuminate when the unit shuts down due to excessive temperature rise and/or excessive load on the speaker outputs. In this condition check the unit for adequate ventilation. Check also speaker types and ratings to ensure the amplifier is not overloaded, and that there are no shorts on the speaker line.

## TROUBLESHOOTING

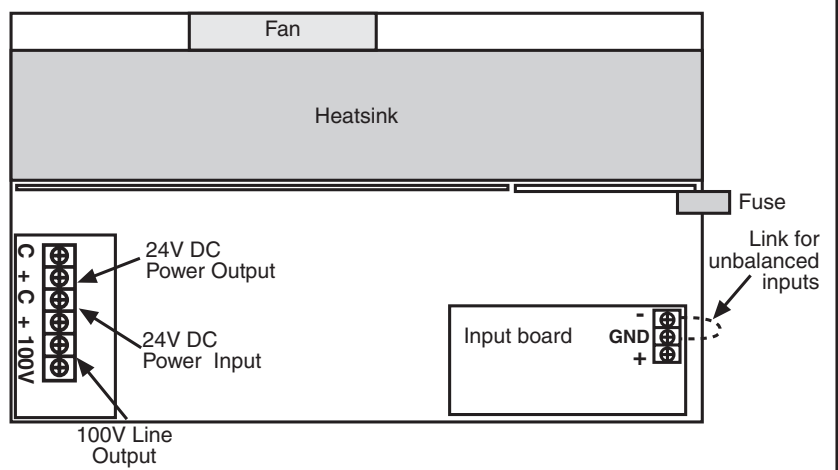
Fuse blows: Check speaker loads and replace fuse with correct type and rating (see specifications)

Fuse continually blows: Disconnect load, apply power. If fuse blows again, refer unit to authorised service centre.

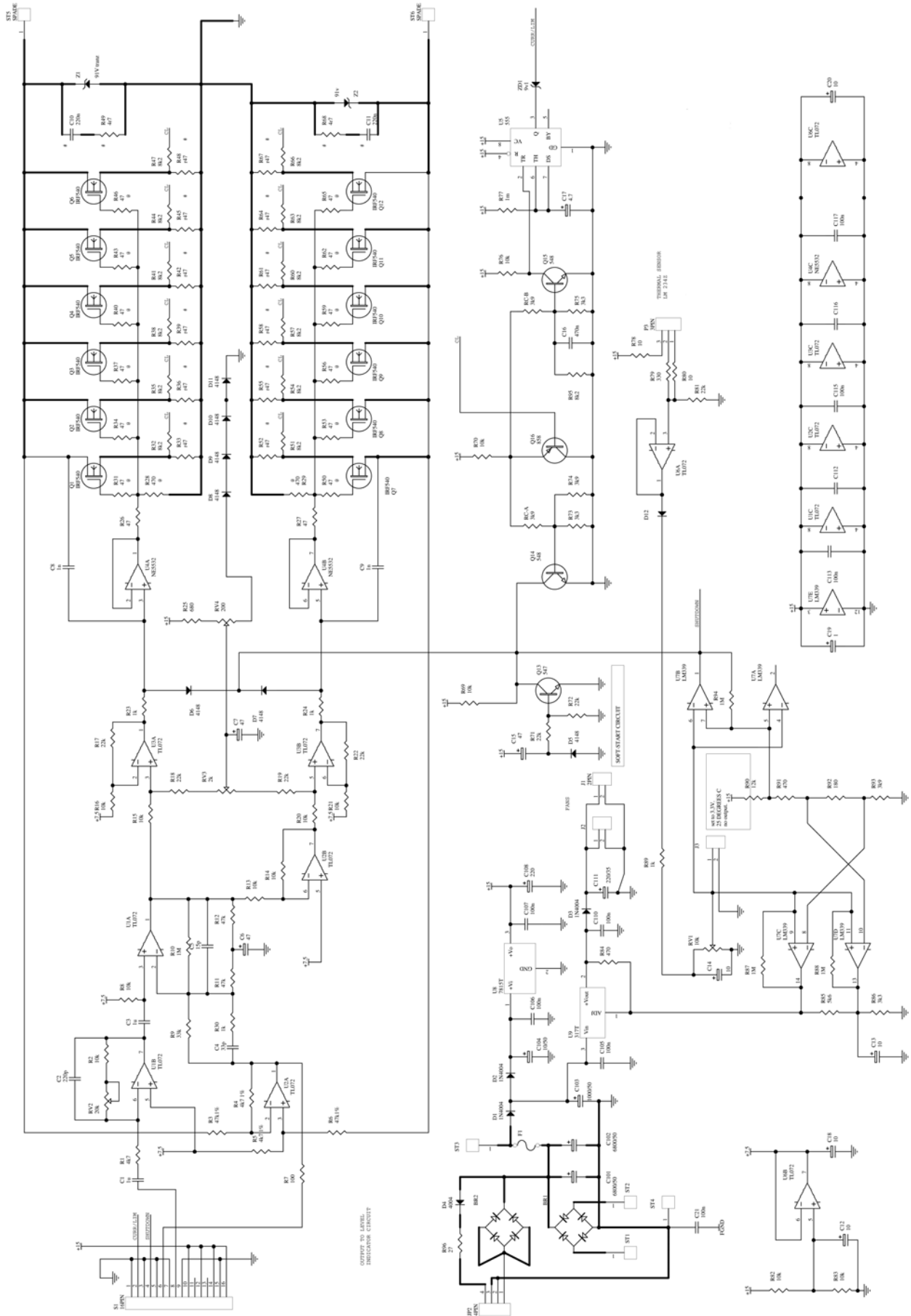
### SPECIFICATIONS

<b>Output Power:\</b>	250W RMS
<b>Current Draw:</b>	17A at full load 360mA Quiescent
<b>Freq. Response:</b>	40Hz - 13kHz
<b>Distortion:</b>	< 0.6%
<b>Signal to Noise Ratio:</b>	-91dB
<b>Sensitivity:</b>	600mV RMS
<b>Fuse Rating and Type:</b>	20A Blade
<b>Dimensions (mm):</b>	300W x 240D x 95H

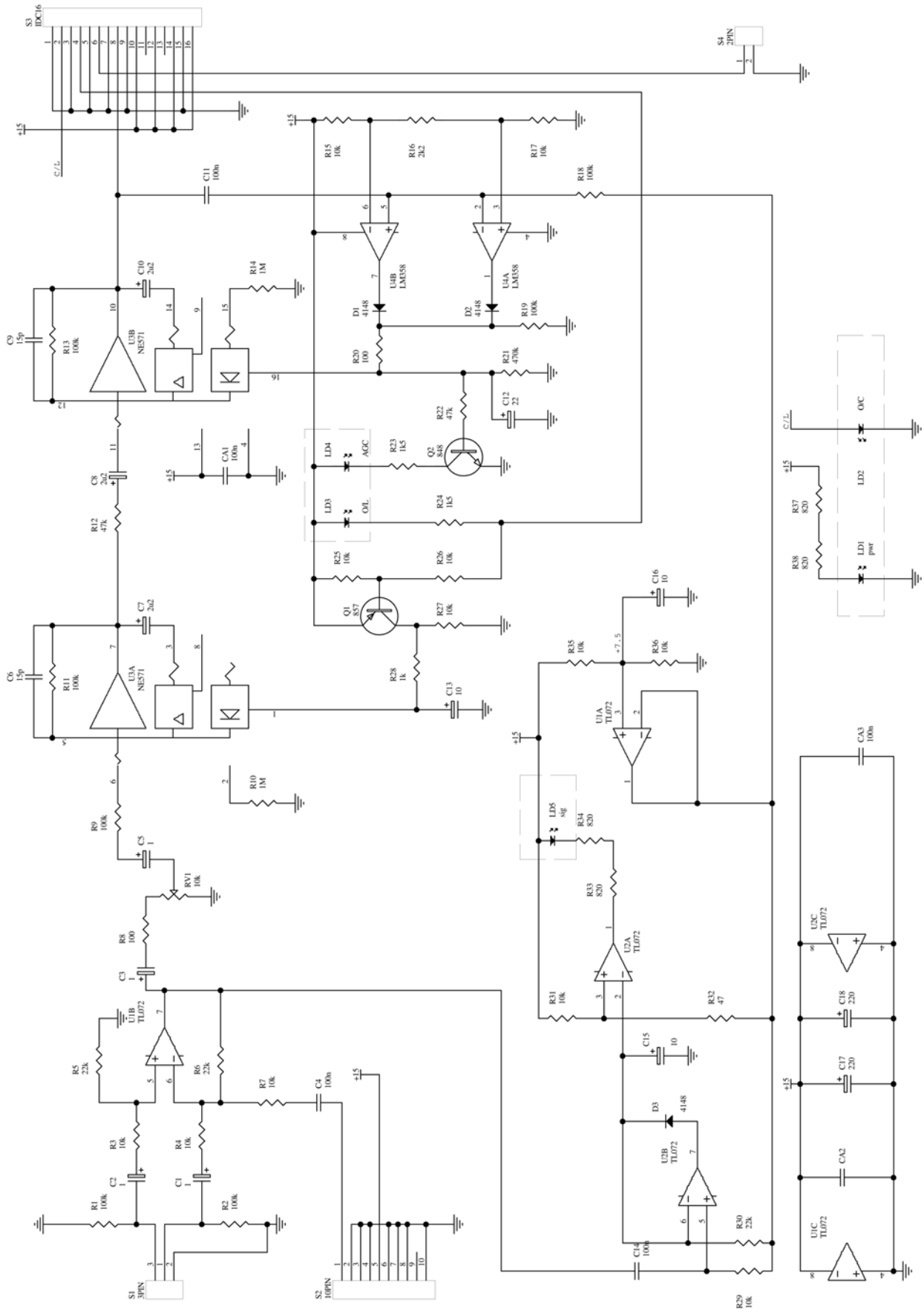
Figure 1 Connections on the amplifier module PCB.



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