

CXL-50
Installation Guide v2.0

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CXL-50

Installation Guide

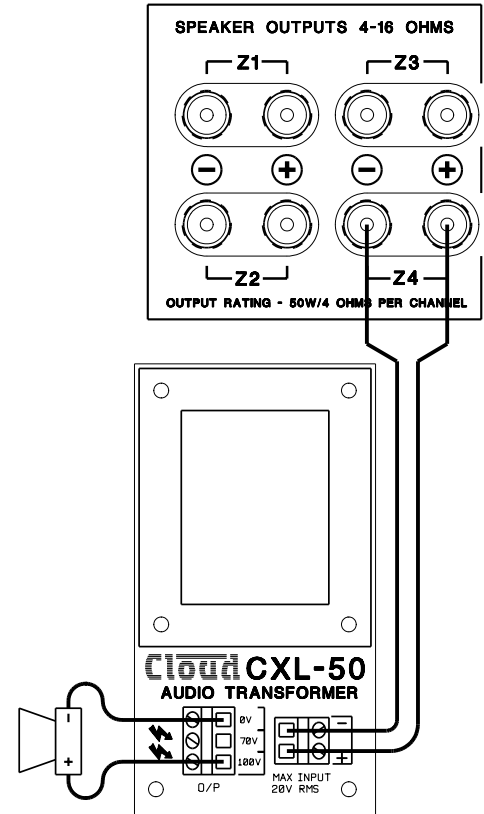
1 Introduction

The CXL-50 is a single 70V/100V-line output transformer intended for use in high quality background music and public address applications in systems up to 40W rms. It can be externally fitted to the 44/50 Integrated Mixer/Amplifier or CX-A200 Multi-Channel Amplifier.

2 Wiring the CXL-50

The CXL-50 should be wired as shown to the right with the installer using the 70V or 100V output. The 70V/100V-line system is capable of delivering an electric shock and must be installed with the appropriate level of care. The cable used to connect the power amplifier to the CXL-50 should be at least 1.5 mm² and the 70V/100V line cable must be 0.75mm² or more, double insulated and capable of carrying at least 1A rms. With long distances it may advantageous to use thicker cable. The CXL-50 is not of the auto transformer type and hence provides a fully balanced output signal which is isolated from the amplifier.

44/50 & CX-A200 Output Wiring (Zone 4)



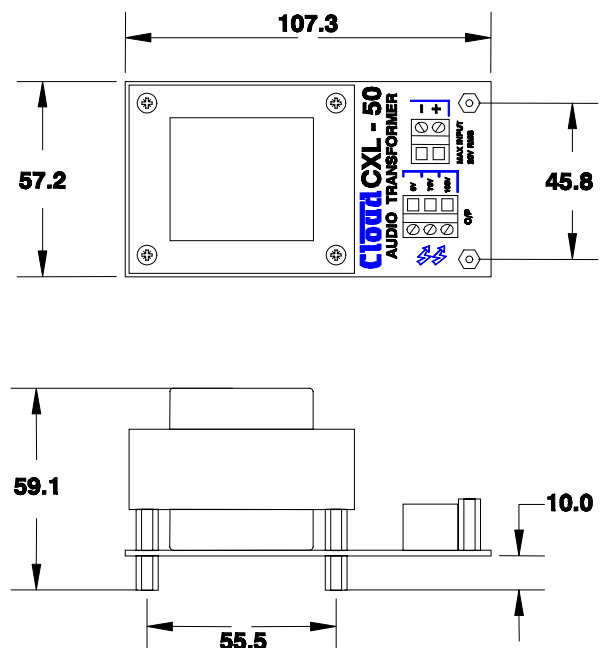
3 Signal Requirements

The CXL-50 may be used at full power with frequencies down to 50Hz. If it is operated with high level input signals at frequencies below 50Hz it may saturate and cause the driving amplifier's VI limiter to operate. Care must be taken to ensure that high level low frequency input signals (50Hz and below) are removed from the signal when using a CXL-50.

4 Mechanical Installation

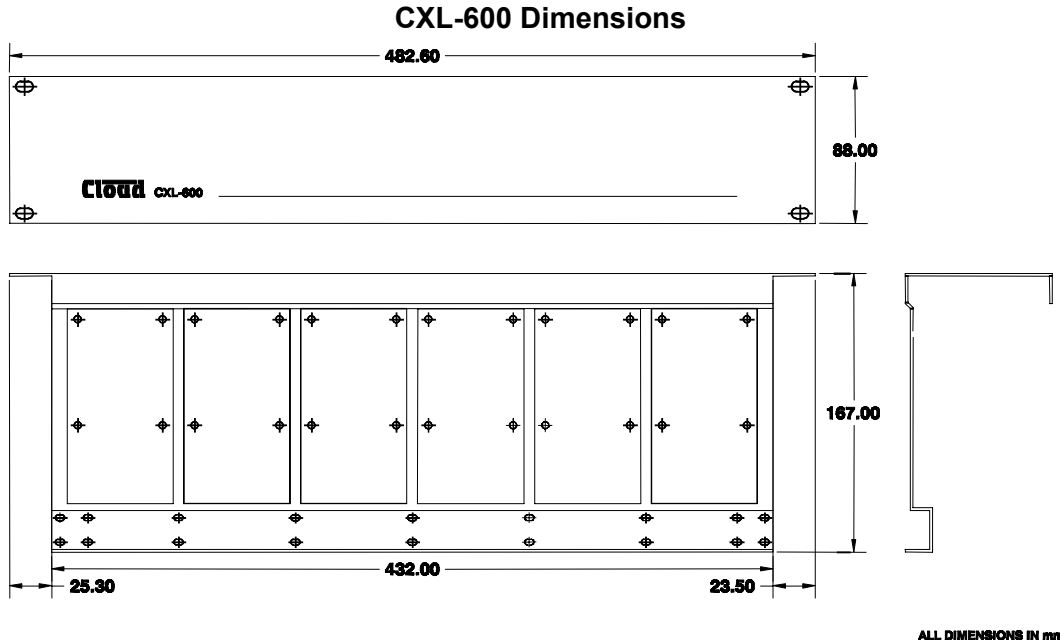
The CXL-50 is supplied with four M3 x 6 fixing screws and a cable tie. The transformer is mounted on a PCB with screw terminal connectors, connector cover and M3 fixing bushes. The CXL-50 must be mounted in a suitable enclosure (CXL-600 for up to 6 CXL-50s) to meet the required safety standards. No special ventilation provisions need to be made for the CXL-50 as its high efficiency means little power is dissipated. The CXL-50 should not be mounted close to mains transformers or any other source of strong magnetic fields. If mounting close to mains transformers is unavoidable then the cores should be arranged at 90 degrees to each other.

CXL-50 Dimensions



4 The CXL-600

The CXL-600 is available to provide convenient mounting of up to six CXL-50 100V-line transformers into a 19" rack enclosure and includes provision for neatly tying cables. The CXL-600 is not intended to be used free standing and will not provide adequate protection in such a situation. See right for the dimensions of the CXL-600. The CXL-600 is designed for static applications only extra support may be required in portable equipment.



5 Technical Specifications

Maximum Input Voltage	16V rms
Input Impedance	4 Ohms (with 250 Ohm secondary load)
Output power rating	40W rms
Minimum load impedance	250 Ohms
Distortion	Typically 0.03% @ 1kHz

The CXL-50 is an accessory for specific cloud products, when installed to these products the CXL-50 will conform to the relevant European Electrical Safety and EMC Standards

CAUTION - Installation

THE CXL-50 SHOULD BE MOUNTED IN AN ELECTRICALLY SAFE ENCLOSURE THAT MEETS THE REQUIREMENTS OF BS EN 60065.

THE INSTALLATION OF THE CXL-50 IS BEYOND THE CONTROL OF CLOUD ELECTRONICS Ltd AND WE ACCEPT NO RESPONSIBILITY FOR HAZARDOUS INSTALLATIONS.

In the interest of continuing improvements Cloud Electronics Limited reserves the right to alter specifications without prior notice.

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