



LC200AF

Description

The LC200AF 2-Card Power Amplifier Mainframe is designed to house, supply power to and cool up to two amplifier cards for use with the IED LANcom SCS. The mainframe is designed to mount in a 19" equipment rack/cabinet, taking up only 2 rack units (RUs) of space or 3.5" of vertical space. All cooling is back to front, so no additional vertical space is required in the rack for cooling. The mainframe has removable rack mounting ears, which may alternately be placed near the bottom of the mainframe for ease in mounting this unit on a wall, such as in a telephone closet, or on the back for rear rail mounting reinforcement.

There are two models of LANcom amplifier cards that may be put into the mainframe for loudspeaker driving options of 25V and 70.7V distributed. Each amplifier card is capable of supplying 200 Watts of continuous power to each channel of its designed load type. A full frame is capable of driving 4 channels of 200 Watts.

The mainframe has connections for audio inputs and loudspeakers, as well as status monitoring outputs such as fan speed, amplifier (heatsink) temperature and amplifier status signals. The fan speed and temperature outputs are voltages whose values are proportional to speed or temperature, respectively. The mainframe also has individual input level controls for each of the possible 4 channels. The audio inputs on the back are made via plug-in lug-less compression-type screw terminals. Also, the loudspeaker connections are made via larger scale terminals of the same type. The power amp cards slide in from the front and have individual power switches on the front along with power and signal presence LEDs.

Related Products

LC270AC	Dual 200 Watt, 70.7V Power Amplifier Card
LC225AC	Dual 200 Watt, 25V Power Amplifier Card

Features

- Power Amplifier Mainframe for IED LANcom SCS
- Supports Up To Two Power Amplifier Cards and Four Loudspeaker Circuits
- Supplies 200W Power per Channel to A Variety of Loudspeaker Systems (25V/70.7V)
- 2RU Rack Design

Specifications

Capacities

Max. Num. of Amplifier Cards	2
Max. Num. of Audio Inputs	4
Max. Num. of Audio Loudspeaker Outputs	4

Connectors

Balanced Audio Inputs (4)	Plug-in Lugless Compression-Type Screw Terminal Blocks
Loudspeaker Connections (2)	Plug-in Lugless Compression-Type Screw Terminal Blocks
Status Options	Amp Card Fan Speed Voltage, Amplifier Temperature Voltage, Amplifier Status Logic
AC Power Cord	For 120VAC Operation (Belden / Volex 17250)

Controls & Indicators

Level Controls (4)	Four Detented Potentiometers
Ground Fault Indicator LEDs	4

AC Power Requirements

No Power Amplifier Cards, Quiescent Power	15 Watts
2 Power Amplifier Cards, Quiescent Power:	95 Watts
Full Power Output, Speech / Voice Announcement Input	215 Watts
Full Power Output, Sine Wave Input	1023 Watts

Mechanical

Dimensions (with rack ears)	19" W x 3.5" H x 17" D (483mm W x 89mm H x 432mm D)
Mounting Depth	17.5" (442mm) <i>For proper fan operation, add a minimum of 2" (51mm) clearance</i>
Weight (empty)	14lbs (6.35kg)
Weight (with 2 cards)	22lbs (10kg)
Cooling	Two Fans, One Per Amplifier
Mounting Ear Location Options	3 (Front, Rear, & Bottom)

Environmental Specifications

Operating Temperature Range	32°F – 122°F (0°C – 50°C)
Storage Temperature Range	-40°F – 158°F (-40°C – 70°C)

Power Amplifier Card Options

LC270AC	Dual 200W, 70.7V Power Amplifier Card
LC225AC	Dual 200W, 25V Power Amplifier Card

Architect & Engineering Specifications

The LANcom system shall include power amplifier mainframes as shown on the plans. The mainframe shall house, supply power to and cool up to two LANcom power amplifier cards. It shall support up to four channels of audio at 200 watts per channel. The power amp cards shall slide in from the front and have individual power switches on the front along with power and signal presence LEDs. Two fans shall provide airflow from back to front for cooling so no

The mainframe shall have individual input level controls for each of the possible 4 channels.

The mainframe shall mount in a 19-inch equipment rack/cabinet and shall take up only 2 rack units of vertical space (3-1/2"). It shall have removable rack mount ears that may be placed near the bottom of the mainframe for ease in mounting this unit on a wall. The mainframe shall have lugless compression-type screw terminal Euroblock style connections for audio inputs and loudspeaker outputs.

The amplifier frame shall be the LANcom LC200AF Power Amplifier Frame or equal.