

MODEL 6160-8L/H POWER AMPLIFIER MAINFRAMES

The Model 6160-8L/H Power Amplifier Mainframes are designed to house, supply power to, provide connection to/from, distribute signals between (if applicable), and cool the Models 6272L, 6282L, 6270L, 6208L Power Amplifier Cards, and the Model 6052L CPU Card. All input and output connections are made on the rear panels of the mainframe. Input and monitor connections are made using lugless, compression-type screw terminal connectors. The main output connections are made via 5-way banana jacks on 3/4" centers. They will accept separate banana plugs, a standard dual banana plug, spade lugs, tip plugs, or bare wire ends. The serial communications connections are made through 2 9-pin sub-D connectors on the rear of the mainframe. When connecting to the 6270L and 6208L single channel amplifiers, the even numbered input and output connections are used.

The model 6160-8L/H house up to 8 6272L, 6282L, 6270L, 6208L amplifier cards, providing up to 16 channels of up to 100 W amplification, or 8 channels of 200 W amplification, or any combination in between. This provides for a total of 1600 W of audio power in 7" of rack space (4 EIA rack spaces) in a standard 19" EIA equipment rack.

Cooling is accomplished by four fans mounted in the back panel, one for each two amplifier cards. The amplifier cards provide power for operation of the fans in the rear of the mainframe. The amplifier and mainframe are setup so that an amplifier in slot 1 will operate fan #1; slot 3 will operate fan #2; slot 5 will operate fan #3; slot 7 will operate fan #4.

The Front door is smoke colored polycarbonate, giving an attractive appearance, yet permitting the LED indicators to be seen.

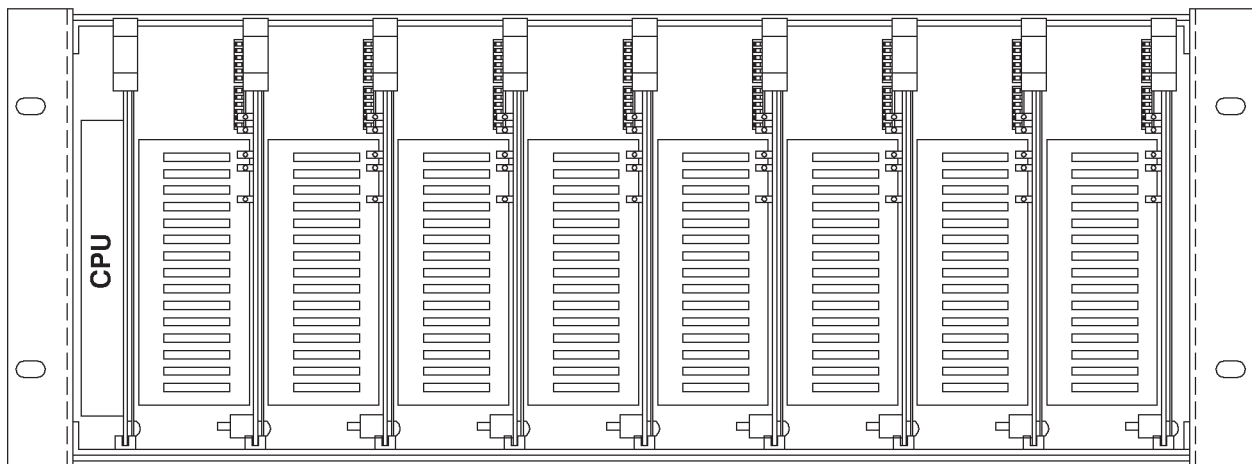


Figure 1 - 6000 Series Dual Channel Amplifier Mainframe
Front View, door not shown



SPECIFICATIONS

ELECTRICAL, ANALOG

- 1. Power Supply
 - Supply Voltage Range
 - 6160L 102 - 130 VAC
 - 6160H 210 - 250 VAC
 - Maximum power input 2100 Watts
 - With any 8 amplifier cards and 1 CPU card (all slots filled), at full power output

CONNECTORS

- 1. 32-pin Euro Connector Panduit 100-032-438
For pin connections, see Tables 1 and 2.
- 2. AC Power Cord Belden 17250, or equivalent

MECHANICAL

- 1. Capacity
 - 6272L, 6282L, 6270L, or 6208L Cards 8
 - 6052L Cards 1
- 2. Size (maximum overall dimensions, power cord attached)
 - Height (17.8 cm) 7.0"
 - Width (48.3 cm) 19.0"
 - Depth, including power cord clearance. (44.5 cm) 17.5"
- 3. Weight (4763 gm) 10.5 lb10.5 lb
Including power cord, less amplifier and CPU cards

ENVIRONMENTAL

- 1. Operating Temperature Range (32 °F - 122 °F) 0 °C - +50 °C
- 2. Storage Temperature Range (-40 °F - 158 °F) -40 °C - +70 °C

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc.



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PIN	FUNCTION	PIN	FUNCTION
1	AC Line High	2	AC Line High
3	AC Line Neutral	4	AC Line Neutral
5	No Connection	6	No Connection
7	Dual/Mono	8	Address 2
9	Address 1	10	Address 0
11	Ch 2 Monitor -	12	Ch 2 Monitor +
13	Ch 1 Monitor -	14	Ch 1 Monitor +
15	Ch 2 Output +	16	Ch 2 Output +
17	Ch 2 Output Common	18	Ch 2 Output Common
19	Ch 1 Output +	20	Ch 1 Output +
21	Ch 1 Output Common	22	Ch 1 Output Common
23	Fan -24 V	24	Fan +24 V
25	I ² C Serial Clock	26	I ² C Serial Data
27	Ground	28	Ground
29	Ch 2 Input +	30	Ch 1 Input +
31	Ch 2 Input -	32	Ch 1 Input -

Table 1 - Pin Connections, Amplifier Cards



PIN	FUNCTION		
	RS232	RS422	RS485
1	No Connection	Input $\overline{\text{Rx}}\overline{\text{D}} -$	No Connection
2	Ground	Ground	Ground
3	No Connection	Input $\overline{\text{Rx}}\overline{\text{D}} +$	No Connection
4	Ground	Ground	Ground
5	Ground	Ground	Ground
6	No Connection	Input $\overline{\text{Tx}}\overline{\text{D}}$	Data +
7	No Connection	Input $\overline{\text{DSR}}$	No Connection
8	No Connection	Input $\overline{\text{Tx}}\overline{\text{D}}$	Data -
9	No Connection	Input $\overline{\text{DSR}} -$	No Connection
10	No Connection	Input $\overline{\text{DTR}} -$	No Connection
11	No Connection	Output $\overline{\text{DSR}} +$	No Connection
12	No Connection	Input $\overline{\text{DTR}} +$	No Connection
13	$\overline{\text{Rx}}\overline{\text{D}}$	Output $\overline{\text{DSR}} +$	No Connection
14	DSR	Output $\overline{\text{DTR}} +$	No Connection
15	$\overline{\text{Tx}}\overline{\text{D}}$	Ground	Ground
16	RTS	Output $\overline{\text{DTR}} -$	No Connection
17	DTR	Output $\overline{\text{Rx}}\overline{\text{D}} +$	No Connection
18	CTS	Output $\overline{\text{Tx}}\overline{\text{D}} +$	Data -
19	Ground	Output $\overline{\text{Rx}}\overline{\text{D}} -$	No Connection
20	No Connection	Output $\overline{\text{Tx}}\overline{\text{D}} -$	Data +
21	No Connection	No Connection	No Connection
22	No Connection	No Connection	No Connection
23	AC Line High	AC Line High	AC Line High
24	AC Line High	AC Line High	AC Line High
25	AC Line Neutral	AC Line Neutral	AC Line Neutral
26	AC Line Neutral	AC Line Neutral	AC Line Neutral
27	No Connection	No Connection	No Connection
28	No Connection	No Connection	No Connection
29	Ground	Ground	Ground
30	Ground	Ground	Ground
31	I ² C Serial Data	I ² C Serial Data	I ² C Serial Data
32	I ² C Serial Clock	I ² C Serial Clock	I ² C Serial Clock

Table 2 - Pin Connections, CPU card

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