

**PA2250T**   
Two-Channel  
Power Amplifier

**Key Features:**

- 2 x 270W at 70V or 270W at 4 Ohms
- 2 U Rack Space Chassis
- Stepped Rear Level Controls
- Bridge Mode Operation Provides 1 x 540W at 8 ohms
- Complete Protection Package
- Selectable 50Hz or 300Hz Hi-Pass Filter for each Channel
- Phoenix Type Inputs
- Phoenix Type Outputs
- High Efficiency Circuit Design
- Front Panel Power On/Off



**General Description:**

The Electro-Voice® PA2250T is from the PA series of professional commercial audio amplifiers. The direct path airflow design reduces the heat buildup significantly and allows more amplifier channels and output power in slim two rack space chassis. The audio performance of the PA2250T is superior and fulfills the requirements in many demanding long term applications from sound reinforcement, paging or life safety installations.

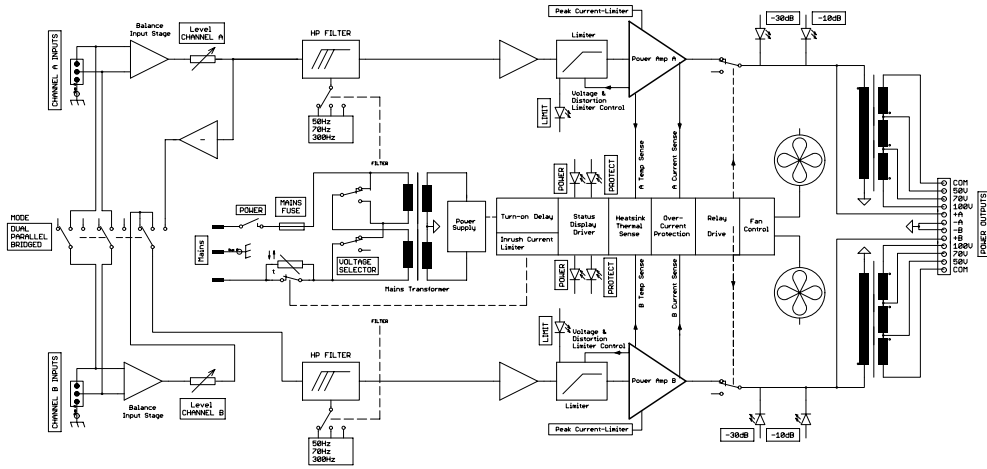
High performance toroidal power and output transformers combine clean saturation free audio performance with cool running operation. The PA2250T features many of the same comprehensive protection circuits typical in EV amplifiers. Complete protection is provided for high temperature, audio limiters, power up delay and peak current limiters. In addition to the rated output power, the PA2250T provides excellent headroom for a wide dynamic range on music signals. The onboard dynamic limiter ensures that the output clipping of the PA2250T will not generate excessive distortion. The amplifier channels can be bridged for more power flexibility. Marked level controls on the rear panel provide hidden reliable level adjustments for each channel. Front panel LEDs indicate signal present, 0 dB, and limit. Phoenix type connectors for inputs and outputs provide an easy rack wiring.

**Technical Specifications:**

|   |  |       |              |
|---|--|-------|--------------|
| Number of Channels  | 2  |       |              |
| Load Impedance  | 8 Ohm  | 4 Ohm | 70V          |
| Rated Output Power (*Rated Load)<br>THD<1%, 1kHz            | 135W   | 270W  | 270W         |
| Rated Output Power (*Rated Load)<br>THD<0.2%, 20Hz...20kHz  | 125W   | 250W  | 250W         |
| Slew Rate at 1kHz   | 18V/μs   |       | 41V/μs       |
| Frequency Response, -1dB, Ref. 1kHz                         | 65Hz - 40kHz   |       | 65Hz - 20kHz |
| Damping factor, at 100Hz / 1kHz,<br>4 Ohm                   | >250   |       | N/A          |
| Power Bandwidth THD=1%, Ref.<br>1kHz, Half Power            | 45Hz - >20kHz  |       |              |
| Input Impedance, 20Hz ... 20kHz,<br>Balanced                | >20kOhm  |       |              |
| Signal-to-Noise Ratio, A-Weighted                           | 103 dB   |       |              |
| Input Sensitivity at Rated Output<br>Power or Voltage, 1kHz | 0dBu (775mV)   |       |              |
| THD at rated output power,<br>MBW=80kHz, 1kHz               | <0.1%  |       |              |
| IMD-SMPTE, 60Hz, 7kHz                                       | <0.1%  |       |              |
| DIM30, 3.15kHz, 15kHz                                       | <0.1%  |       |              |
| Crosstalk, Ref. 1kHz, at 10% Rated<br>Output Power          | <-75 dB  |       |              |
| Power Requirements  | 120V or 230V, 50Hz - 60Hz  |       |              |
| Protection  | Audio Limiters<br>High Temperature<br>Peak Current Limiters<br>Turn-On Delay |       |              |
| Cooling   | Front-to-Rear  |       |              |
| Dimensions (W x H x D), mm                                  | 483 x 88 x 406mm (2Ru)<br>19" x 3.5" x 16"                                   |       |              |
| Weight  | 23.5kg (51.76lbs)  |       |              |

Low Impedance Outputs:  
 - Min. Rated Load for Single Channel Operation is 4 Ohms. 2 Ohm Load is Not Recommended.  
 - Min. Rated Load for Bridged Operation is 8 Ohms. 4 Ohm Load is Not Recommended.

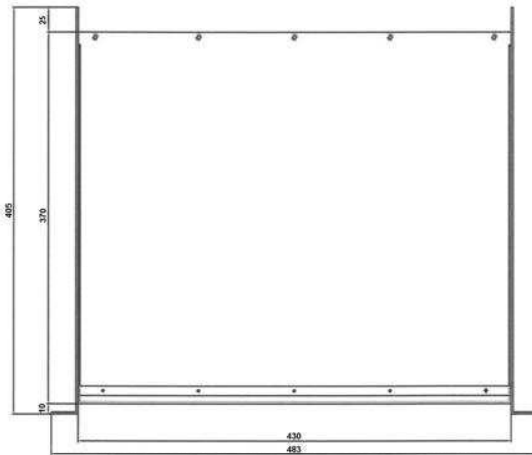
# Block Diagram:



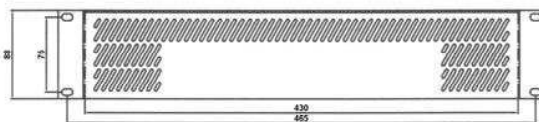
# Dimension Drawings:

All Dimensions in Millimeters

Top View

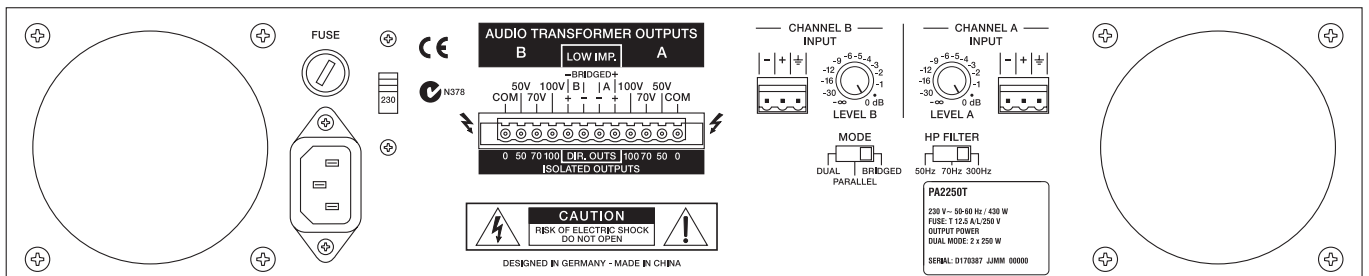


Front View



**PA2250T Part Number:**  
PA2250T, 120V -- D170407

# Rear View:



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Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

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Part Number LIT-0000XX Rev 1

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Specifications subject to change without notice.