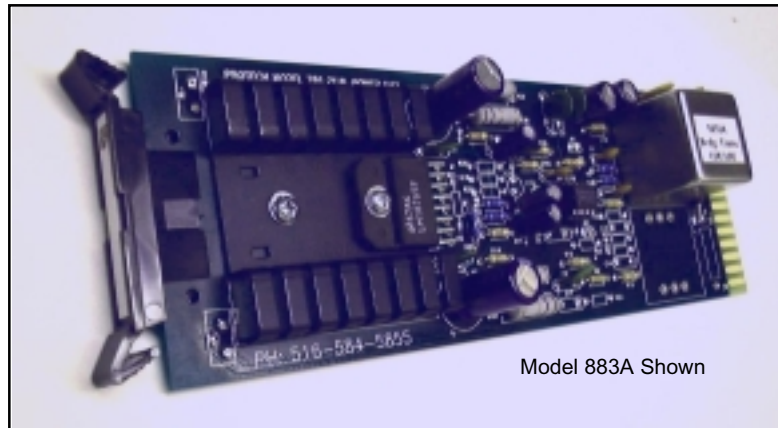


# AUDIO POWER AMPLIFIERS

- Balanced or Unbalanced Input.
- 10 Watts RMS Into 8 Ohms.
- Built-In Mute Function
- Overload & Thermal Protected



Model 883A Shown

[www.protechaudio.com](http://www.protechaudio.com)

The INTEGRA III SYSTEM Audio Power Amplifier modules represent years of field proven design work. Each module is designed to incorporate features demanded by some of industries most notable design/consulting firms. The quality and workmanship of these products will not be surpassed anywhere. These power amplifiers will work well in such applications as: monitor speakers, paging speakers, cue speakers, talk-thru speakers, or sound reinforcement speakers.

There are three different power amplifiers to choose from. All 3 units will deliver 10 watts RMS into a 4 or 8 ohm load. The difference in the units are the input stage impedance. The Model 861A, has a high impedance unbalanced input. The second type, the model 883A, has a bridging (10K ohm) balanced, transformer- isolated input. The third type, the model 884A, has a balanced transformer isolated 600 ohm input.

The model 861A is suggested for applications where the input signal is originating in the same card frame. The Models 883A, and 884A units are suggested for applications where the program signal is coming from another location. The transformer isolated inputs work well to prevent ground loops in the larger systems.

The gain of all units, has a range of +8dB to +30dB, and is continuously adjustable via a trimpot mounted on the corresponding backplane.

The input is short-circuit protected. Shorting the input will not harm any of the 3 input types.

The output section is overload and thermally protected. Each of the units incorporates a built-in mute circuit. Simply grounding the appropriate pin will mute the power amplifier output.

The power supply section of each card has auto-resetting electronic fusing devices to prevent damage to the card.

Due to the amount of current required to supply 10 watts RMS, an external power supply, the Model 66708, is suggested when using more than one power amplifier card. The Model 857B card frame assembly is designed for use with the external power supply, and allows mounting of up to 10 audio modules in just 3.5" of rack space.

As one of the INTEGRA III SYSTEM cards, each of the three power amplifier cards may be mounted in any of the system enclosures manufactured by Protech Audio Corporation.

For additional information or applications assistance contact:

SALES ENGINEERING

AUDIO POWER AMPLIFIERS

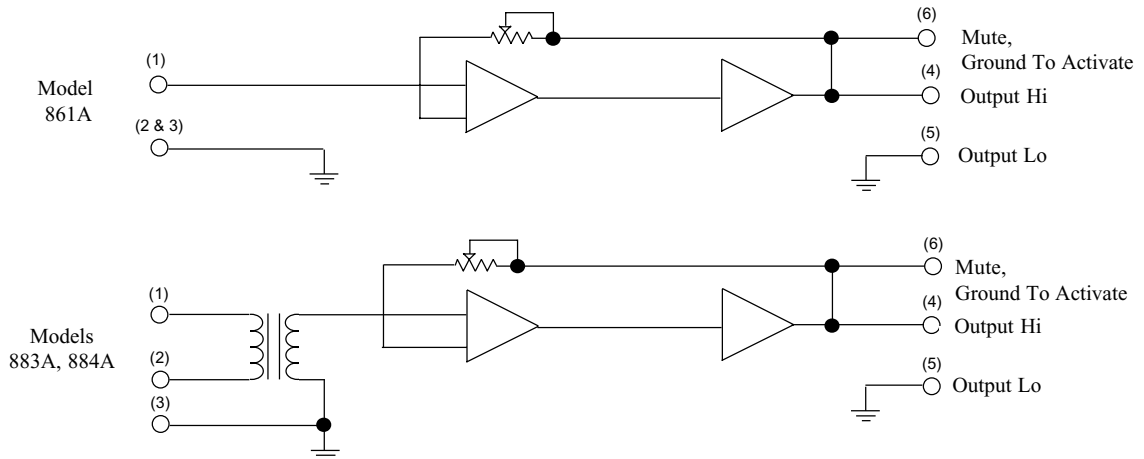
**PROTECH**<sup>®</sup>

Engineering Data

1/06

# AUDIO POWER AMPLIFIERS

## Block Diagram



Pin Numbers for 857B & 858B Backplanes.

## Specifications

Gain.....	+8 To +30dB, Adjustable
Maximum Input Level.....	+12dB
Maximum Output Level.....	9.0 Volts AC Into 8 Ohm Load, 6.3VAC Into 4 Ohms
Input Impedance.....	Model 661A & 861A = 10K Ohms Unbalanced Model 683A & 883A = 10K Ohms, Balanced Transformer Isolated Model 684A & 884A = 600 Ohms, Balanced Transformer Isolated
Output Impedance.....	0.2 Ohms
Frequency Response.....	+0, -1dB, 20Hz To 20KHz
Distortion.....	0.1% Maximum @ RPO, 30Hz To 20KHz
Noise.....	-88dB Below Full Output
Fuse.....	(2) 1 Amp Electronic, Self-Resetting
Power Requirements.....	±15-18VDC @ 480ma for 10 watts out, 220ma for 2 watts out.
Size.....	2.5"H x 8.0"D x 1.1"W
Operating Temperature.....	0 To +70 Degrees C

\*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

## Architect's & Engineers Specifications

The power amplifier shall be constructed as a plug-in printed circuit board module. It shall be designed to allow up to 10 modules to fit in a rack mount card frame, requiring no more than 3.5 inches of vertical rack space. The power amplifier shall be unpluggable from the front of the card frame, without the need to disconnect wires attached to the rear connector. Replacement of an amplifier shall require no more than one minute.

The power amplifier shall have an unbalanced 15K ohm input (Model 861A), or a bridging (10K ohm) balanced transformer-isolated input (Model 883A), or a 600 ohm balanced transformer-isolated input (Model 884A).

The power amplifier shall be capable of delivering 10 watts RMS into an eight ohm load. The gain of the power amplifier shall be variable from +8dB to +30dB.

The input section of the power amplifier module shall not be adversely effected by shorts. The power supply section of the power amplifier module shall incorporate auto-resetting electronic fusing devices to prevent damage to the module. The output section of the power amplifier shall be overload and thermally protected.

The power amplifier module shall be: Protech Audio Corporation Model 861A, or 883A, or 884A

## Accessories

Card Frame Package.....MODEL 858B  
Includes Card frame, Backplane Assembly, and Power Supply. For use with 1 power amplifier module, or several power amplifier modules using only 1 or 2 watts of power.

RACK MOUNT CARD FRAME PACKAGE.....MODEL 857B  
Includes Card Frame, and Backplane Assembly. For use with multiple power amplifier modules and external power supply Model 66708.

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**AUTHORIZED DEALER**