



# PA1001G

## 70.7V 100 Watt Pole Mount Amplifier

### Applications

The PA1001G pole-mount amplifier system from Atlas Sound provides an innovative solution for display systems that require local sound reinforcement.

Since the first projector was pole mounted in a ceiling, there has been a real quandary about how to best provide local amplification. The PA1001G pole mount amplifier is an elegant solution to solve this issue.

The PA1001G includes a unique mounting system that allows projector mounting-pole access through the amplifier via a sealed hole incorporated into the chassis design. Simply install the projector mounting pole, align the amplifier chassis hole with the 1.5" mounting tube, and clamp the unit at the desired height above the projector mount with the innovative pole clamp system included with the PA1001G. Afterwards, install the projector as normal.

As a side benefit, the through chassis "hole" mounting system provides the necessary security to help deter theft.

Output is a strong 100 Watts from the efficient rail tracking Class AB and switch mode power supply technology. The PA1001G power supply supports 120-240Vac power for global use and operation.

The PA1001G includes a host of other innovative features including an accessory outlet with AC current sense that allows the amplifier to respond instantly from stand-by mode when the projector is powered on remotely, separate audio sense turn-on, balanced phoenix style and unbalanced RCA input connections, front panel status LEDs, and recessed screwdriver adjustable tone and volume level controls.

The PA1001G also includes a remote level control input that allows remote volume control of the main output via the optional AAVCC-10K. An unbalanced line level output is included to provide a feed to an additional amplifier and can be set to pre or post VCA Control.

The slim profile chassis is also designed to work in a rack mount configuration. An optional rack mount kit allows single or dual mounting of the PA1001G in a 1RU high configuration. (PA702-RMK)



PA1001G



PA1001G  
(Shown with PA702RMK,  
Sold Separately)

### Features

- 100 Watt, 1-Channel, Ultra Compact Power Amplifier
- Patent Pending, Through Chassis Mounting System for use With Pole Mounted Projector Systems
- Multi Voltage Power Supply Allows for Worldwide Operation
- Current and Signal Sense Auto Turn-On
- Balanced & Unbalanced Inputs
- Screwdriver Adjustable Tone Controls
- Master Level VCA Control
- Unbalanced Line Level Output

### Specifications

Power Output	100 Watts @ 70.7V
Harmonic Distortion	0.002
Frequency Response:	No Hi-Pass Filter: 30Hz – 20kHz (±3dB) Hi-Pass Engaged: 100Hz – 20kHz (±3dB)
Signal to Noise Ratio:	-100dB Below Rated Output (A-Weighted)
Input Sensitivity:	RCA Unbalanced: 50mV – 320mV Adjustable Balanced: 320mv
Input Impedance:	RCA Unbalanced: 10k Balanced: 20k
Audio Turn On Trigger:	1mV – 20mV
AC Turn On Trigger:	100mA
Power Required:	120-240Vac, 50-60Hz
Power Consumption:	10 Watts Sleep Mode 16 Watts Idle Mode 165 Watts Full Load (70V)
Height:	1.75" (45mm)
Width:	8.5" (216mm)
Depth:	11.5" (292mm)
Weight:	4.9lbs (2.2Kg)

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## Architect & Engineer Specifications

The product shall be a one channel 1RU half rack power amplifier and provide 100 Watts into a 70.7V load. The unit shall utilize rail tracking Class A/B topology and switch mode power supply technology. The front panel shall have Green signal presence LED's a Red limit status LED, recessed screwdriver adjustable bass and treble tone controls along with master level controls. The front panel shall have mains power switch with and power Blue "ON" and Red "Standby" status LED indicator. The rear panel shall have balanced inputs with removable phoenix style connectors and an input impedance of 20K $\Omega$ . The unit shall have unbalanced RCA input connections with input impedance of 10K $\Omega$ . Output terminations are made via phoenix style connectors. The unit shall have an audio sense turn-on from stand by mode, with threshold adjustment of 1mV to 20mV. The unit shall have accessory AC socket with AC sense to turn the unit on from stand by to active mode with threshold adjustment of 1ma to 350ma. The unit shall draw 16 Watts in stand by mode. The unit shall incorporate dip switches to activate a 100Hz High-Pass filter and for pre / post VCA for Line Output. The unit shall have separate input level trim pots for the RCA inputs to allow mix summing with the balanced inputs. The unit shall have an input sensitivity of 320mv, frequency response of 30Hz – 20KHz ( $\pm$ 3dB) and an average THD of .02%. The unit includes a mounting pole installation process via a sealed hole incorporated into the chassis design. The amplifier chassis hole shall accept a 1.5" mounting tube. The pole clamp system shall be included with the unit. An optional rack mount kit allows single or dual mounting in a 1RU high configuration. The unit shall be 8.5" (216mm) Wide x 1.75" (45mm) Height x 13.5" (343mm) Depth. The unit shall weigh 4.9lbs (2.2Kg). The unit shall be RoHS compliant. The unit shall be compliant with IEC/ UL60065. The unit shall be the Atlas Sound PA1001G.



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