# Atlas Solutions

## Atlas Sound® Mixer / Power Amplifiers

When it comes to the finest commercial and professional sound products in the industry, Atlas Sound delivers. The Atlas Sound Amplifiers were designed from the ground up to address the needs of the commercial sound industry.

These amplifiers include extensive feature sets, compact designs, a variety of accessories, and are engineered for long term reliability. Uniquely Engineered for years of trouble free performance.

A full compliment of useful, contractor friendly application features. 3-Year advance replacement warranty and the industry's best customer support team.

## F6-MF

- F6-MF Supports up to 6 Amplifier Channels

- Light Weight Power Rail Direct Coupling™ (PRDC) Technology

- Ultra-Efficient Class D Amplification Topology

- Ultra Fast Recovery Switch Mode Power Supply

- Modular Design, Purchase the Number of Channels Needed

- Energy Save Mode, Remote Activation

- 4Ω/8Ω Amplifier Power Modules

- 70.7V Amplifier Power Modules

- Balanced Inputs via Phoenix Connector

- Front and Rear LED Status Indicators

- Optional Gain Selections

- Selectable Hi-Pass Filter per Channel

- Tamper-Proof Level Controls

- Individual Channel Protection

- Optional Input Modules, Coming Soon!

The innovative design of the F6-MF allows the amplifier to be configured to suit the individual amplification and sound system requirements of a variety of applications. This functionality makes the F6-MF the most flexible, energy efficient amplifier on the market today.

The F6-MF chassis can be fitted with up to six uniquely engineered amplifier modules. The straight-path design of the F6-MF is the essence of simplicity; yielding clean, accurate, and dynamic sound. The FM250-4 (4Ω/8Ω) and FM250-70 (70.7V) power modules can be loaded into any of the six F6-MF amplifier card slots and are designed to deliver up to 250 Watts per channel.

The Ultra Fast recovery switch mode power supply is routed to each output module through quad-ganged connector contacts, to minimize the impedance path allowing for maximum current delivery. Each amplifier module includes its own power supplied, high-current, low ESR (Equivalent Series Resistance) capacitors which provide immediate local, on demand current. This allows each channel to produce clean, instantaneous, high-impact audio power. The direct coupled power supply

is designed to route any and all available energy to the channels that require it. This innovative feature known as Power Rail Direct Coupling™, or PRDC, technology enables channels that demand more energy to benefit from the pooled resources so it can deliver more power, more efficiently"

The F6-MF Chassis can be purchased with up to six FM250-4 modules, up to six FM250-70 modules, or in any combination. Additional modules can also be ordered as needed to satisfy future system or purchasing requirements. The input design of the F6-MF is based on an open architecture concept, permitting application and installation flexibility. Six balanced inputs via Phoenix termination feed a variety of optional accessory interface cards, coming soon.

The F6-MF offers an Energy Save Mode called "Standby". The amplifier can be turned on remotely via a Contact Closure (CC) or a DC Voltage of 5V – 24V. A LED located on both the Front & Rear panels of the F6-MF indicates the operation mode of the amplifier.

## FM250-70 and FM250-4

The FM250 power modules are loaded with useful features including front and rear channel status indicators, selectable gain, signal limiters, 100Hz Hi-Pass filter, bridge mode operation, and tamper-proof level controls. The FM250 Series Power Modules are designed to be 90% efficient, allowing the amplifier to run cooler and consume less energy than conventional commercial amplifiers

• FM250-70 250W, 70V Mainframe Output Module

• FM250-4 250W, 4Ω/8Ω Mainframe Output Module
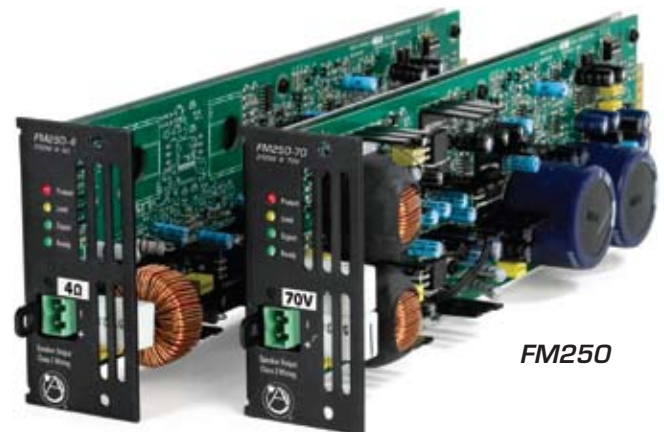


FM250

## AA120 / AA240

- 6 Channel Mixer Amp – Available in 120 Watt or 240 Watt Configurations

- 5 Mic / Line Inputs with Phantom Power and 1 Stereo Summing AUX Input

- Remote or VOX Mute Capabilities

- Zone 2 MOH Out from CH6 Line Source

- Special Low Cut Filter is 6 dBu / Octave at 400 Hz and Also Bypasses Front Panel Bass Control to Allow Use with Paging Horns such as the APX40TN and AP-15T

- Bridge In / Out Circuit with Balanced Link / Internal Relay to Engage Circuit

- VCA Control Assignable to Input Six Line Level (BGM) Inputs or Global for the Mix Bus

- Pre Out / Power Amp in for Patching External Processors

- Optional Rack Mount Kit: AARMK2-0

The AA120 / AA240 amplifiers are an ideal solution for large retail, commercial, or industrial paging and background music applications. These powerful 120 watt or 240 watt amplifiers were engineered with unique features to assist the contractor or installer in today's commercial business audio environment.

The 6 input units feature extensive muting and output options along with a very unique bridge in / out feature to allow combining of multiple amplifiers in ballroom applications without the need for external relays. VCA control is also included which may be assigned to the BGM input or globally for the entire amplifier.



*AA240 Front*



*AA120 Back*

# Atlas Sound

## AA120M

- 4 Mic Inputs

- 1 Stereo Line (BGM) Input

- 1 Module Input

- Input Trim Control per Channel

- Channel 2-5 Can Be Configured for Mute Receive or Mute Send

- Separate Zone 2 / 3 Matrix per Channel

- VOX Mute and Contact Closure Mute May Be Assigned Separately for Virtual Dual Level Mute Priority via Internal Jumpers

- VCA Control Assignable to CH 5 BGM Input or Main Mix Bus

- Bridge I/O With Relay Similar to AA120 / AA240

- Zone 2 / 3 Output (1V Line Level and 1 Watt & 8/Ω)

- 24 VDC Output and Patchable Relay Assignable to Contact Closure or VOX Mute Circuit Allows Use of Atlas Sound Priority Attenuators without Additional Hardware

- Module Input Features Mix Bus or Amp Direct Routing (Ideal for Sound Masking as Masking Source is not Affected by Front Panel EQ Settings and Treble Control Can Be Used for Adding High Frequency to Page in Masking Systems)

- Optional Rack Mount Kit: AARMK2-0



*AA120M Front*



*AA120M Back*

Atlas Sound's AA120M is possibly the most versatile mixer / amplifier on the market today. True 3 zone matrixing (main 120 watt output, 1 watt output, and line level output), 24VDC output with relay sync to the mute bus, bridge in/out with built-in relay control, one industry standard module input with direct to mix bus or direct to amp assignment, global or BGM input VCA control and multiple mute bus configuration options round out the unit's extensive feature set.

The AA120M is ideal for applications such as sound masking, industrial paging, BGM, commercial PA, priority volume control applications, and hotel ballrooms / meeting rooms.

## AA35 / AA60

- 1 Mic Input w/ Phantom Power

- 2 Stereo Line Inputs

- Dual Line Out

- Pre Out / Power In Patch

- Remote and Vox Activated Mute

- Route Any Source Combination or Entire Mix Bus to Zone 2 (MOH Out)

- Special Low Cut Filter is 6 dBu / Octave at 400 Hz and Also Bypasses Front Panel Bass Control to Allow use with Paging Horns like APX40TN and AP-15T

- UL Listed

- ROHS Compliant

- Optional Rack Mount Kit: AARMK2-5

The AA35 & AA60 are 3 input mixer amplifiers designed for distributed business paging and background music (BGM) systems, small to medium speech privacy systems and in applications where music on hold (MOH) plus paging is required. With one microphone input and two stereo line inputs these units will accommodate a variety of input sources including paging microphones, CD players and digital music receivers.

A dip switch selectable matrix allows the creation of a zone 2 mix from any or all of the input sources for music or messaging on hold applications. 25V, 70.7V, and 8/Ω outputs are provided. Output power will match nicely with Atlas Sound FAP, SM, SD, and GD series loudspeakers. In fact, in an 11' ceiling application, the AA35 will provide power for up to 117 SD72W loudspeakers tapped at ¼ watt each while providing upwards of 84 dB in the direct sound field at ear height!



*AA35 / AA60 Front*



*AA35 / AA60 Back*

# MA40G/MA60G

- MA40G - 40W into 70.7V/100V
- MA60G - 60W into 70.7V/100V
- One Balanced Mic / Line / Tel Input w/ Phantom Power
- 2 Unbalanced, Summing Line Level Inputs
- Variable Mute Sensitivity Control for Input 1
- Contact Closure Mute Terminals
- Rear Mounted Dip Switch Allows Mute Receive for Inputs Two and Three
- Global Power Supply, 100VAC-240VAC ~ 50/60Hz
- Optional Level Control Security Cover

The Atlas Sound MA40G and MA60G mixer amplifiers were designed from the ground up to meet the demands of professional installation personnel. Utilizing a small footprint and engineered for reliability, these amplifiers will provide years of service and flexibility in distributed business paging and background music (BGM) systems, small to medium speech privacy systems and in applications and installations where mixer functionality is required.

Each unit has three total inputs including a balanced mic/line input featuring phantom power and variable mute sensitivity control as well as two unbalanced, summing line level inputs. Additional features include Removable Level Controls with set it and forget it security cover, contact closure mute terminals, and a global (100VAC-240VAC) power supply.

## CP400 / CP700

- Commercial Duty Stereo Power Amplifiers

- CP700 Power Ouput
  - 280W/Channel @ 25V: 350W/Channel @ 70.7V/100V : 700W Bridge Mono @ 140V/200V :400W/Channel @ 4Ω

- CP400 Power Output
  - 175W/Channel @ 25V : 200W/Channel @ 70.7V/100V : 400W Bridge Mono @ 140V/200V : 240W/Channel @ 4Ω

- Two High Quality Internal Toroidal Transformers Provide Isolation in 25V, 70.7V, 100V Stereo or 140V / 200V Bridge Mode Operation

- 30-Position Rear Panel Stepped Input Gain Controls

- Terminal Block and XLR Input

- Automatic, Dual Speed, High Efficiency Fan Cooling

- Short Circuit, Thermal, and DC Offset Protection

- UL Listed

Professional grade audio power amplifiers specifically designed for demanding contractor applications feature esoteric grade toroidal power supply and output transformers. These transformers were chosen for their outstanding reliability as well as extended frequency response (-3 dB @ 30 Hz - 70.7V output through transformer).

Now you can have the peace of mind that systems will have true transformer output isolation, a feature that previously may have not been affordable due to the cost of quality external transformers. Independent channels are driven by separate power supplies to ensure maximum channel separation and ultra low distortion figures while providing years or faithful service. Whether your application is a large distributed constant voltage sound system or a high SPL sound reinforcement system, the Atlas Sound CP Series is the perfect answer.

*CP700 Front*

*Esoteric Grade Output Transformers*

# PA40G/PA60G

- PA40G - 40W into 70.7V/100V

- PA60G - 60W into 70.7V/100V

- 1 Balanced Line Input

- 1 Unbalanced, Summing Line Level Input

- Global Power Supply, 100VAC-240VAC ~ 50/60Hz

- Optional Level Control Security Cover

- Optional Rack Mount Kit

The Atlas Sound PA40G and PA60G power amplifiers were designed from the ground up to meet the demands of professional installation personnel. Utilizing a small footprint and engineered for reliability, these amplifiers will provide years of service and flexibility in background music, paging, and small to medium speech privacy system applications.

Each unit has a balanced line level input via phoenix connector and a summing unbalanced RCA input. Output is to 70.7/100V speaker lines via phoenix connector and additional features include status LEDs, Removable Level Controls with set it and forget it security covers, and a global (100VAC-240VAC) power supply. The performance and specifications of the PA series amplifiers make them ideal for any application or installation requiring a simple, easy to use power amplifier.

## PA702

- Includes Feature Sets Perfectly Suited for Projection Systems

- Innovative, Patent Pending Through Chassis Pole Mounting System Simplifies Installation and Secures the Amplifier

- Proven Bash™ Class A/B Amplifier Design Provides Years of Trouble Free Operation

- 2 x 70 Watts @ 8 Ω

- AC Current Sense & Audio Sense Turn-On

- Balanced or Unbalanced Inputs

- UL Listed 60065

- RoHS Compliant



The PA702 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 PA702 pole mount amplifier is a very elegant solution to solve this issue.

The PA702 includes a unique (patent pending) mounting pole installation process 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 PA702. Afterwards, install the projector as normal. As an additional benefit, the chassis "hole" mounting system provides the necessary security to help deter theft.

Output is a strong 70 watts x 2 from the efficient rail tracking Class AB and switch mode power supply technology.

The PA702 includes a host of other innovative features such as 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. Also featured are separate audio sense turn-on, balanced phoenix style and unbalanced RCA input connections, front panel status LEDs, and recessed screwdriver adjustable tone and level controls.

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

# PA1001G

- 100W x 1, 70V / 100V Compact Power Amplifier
- 1RU Tall By ½ Rack Wide
- Ultra Efficient Amplification Technology, Convection Cooled
- Patent Pending, Through Chassis Mounting System For Use With Pole Mounted Projector Systems
- Energy Efficient, Only 16 Watts Draw In Sleep Mode
- Current Sense Auto Turn-On
- Audio Sense Auto Turn-On
- Balanced Inputs Via Phoenix Connector
- Unbalanced Inputs Via RCA Connectors (Summed), With Separate Level Controls
- Mix Function For Two Source Input
- Unbalanced Parallel Combine
- Screwdriver Adjust Level And Tone Controls
- Rack Mountable, Single Unit or Dual Units
- VCA Port For Master Level Line Out With Pre or Post VCA
- Accessory Outlet with Surge Protection and AC Fault Indicator
- Multi Voltage Power Supply Allows for Worldwide Operation



The Atlas Sound PA1001G amplifier can be used for a number of applications. This amplifier features an ultra compact design requiring only 1RU in height and ½ rack wide in space. The 100W into a 70V or 100V distributed system gives the power to meet most amplifier demands. The patent pending through hole chassis design makes it convenient to use with ceiling mounted video projectors.

One or two units can be rack mounted also allowing it to be used in more traditional applications. Remote turn on is easily accomplished by either audio or AC trigger sensors. If focused power is required, an optional Hi-pass filter is incorporated. Master remote level control is easily done via an external 10k potentiometer and a line out makes it easy to daisy chain amplifiers. The PA1001G can be used in many ways ranging from boardroom, restaurant, commercial paging and back ground music applications.

The PA1001G has incorporated a mixer function that allows you connect two different sources to the amp. The summed RCA unbalanced inputs and the balanced input are electrically summed together and are electrically isolated from each other. RCA inputs level controls are "Pre" the front panel master controls. This allows you to feed a balanced signal from one source and apply a second source signal to the unbalanced RCA input and mix the levels via the RCA level on the bottom of the amp.

Then you can adjust the overall system level via the Front panel Master level. A common application would be to feed a wireless microphone's output signal to the balanced input and feed a CD or computer audio output to the RCA unbalanced input. Adjust the RCA input level to the microphone level until you achieve the balance you need and then adjust the master level to the room.

## PA601

- Simple Clean Power
- 60 Watt Single Input Power Amp
- 1 Balanced or Unbalanced Input
- 1 Unbalanced Line Output
- Loudness Contour Switch (+4 dBu @ 100 Hz and 10 kHz)
- 120V / 240V Operation
- Optional Rack Mount Kit: AARMK2-5

The PA601 is the perfect choice for distributed background music (BGM) systems when the requirement is simple amplification without Music on Hold (MOH) or advanced mix functionality.

The PA601 features 60 watts of pure power in a compact package with simple, rear mounted RCA I/O. A unique loudness contour control provides just the right amount of low frequency enhancement for low level listening environments.



*PA601 Front*

*PA601 Back*

## Amplifier Accessories

| | |
|---|---|
| **AA-TG** | 3 Tone Chime Generator Module – AA120M |
| **A-ML** | Mic / Line Input Module with Remote Volume (VCA) – AA120M |
| **AAVCC-5** | 5-Piece Security Cover Kit for All AA Series |
| **AA-PPRC** | Priority Page Relay Controller |
| **AAIT-600** | 600 Ω Isolation Input Transformer for all AA Series |
| **AARMK2-0** | Rack Mount Kit for One AA120 / AA240 or One AA120M |
| **AARMK2-5** | Rack Mount kit for One or Two AA35, AA60, or PA601 |
| **PA702-RMK** | Rack Mount Kit for One or Two PA702. |
| **AA-SMG** | Sound Masking Generator Module with EQ and Patch Point for External Processors – AA120M |
| **AAVC-10K** | 10K Linear pot on Decora plate for VCA use with AA120 / AA240, AA120M (includes white and ivory inserts, knobs and trim ring) |

Learn more about how Atlas can solve your complex problems **@ AtlasSound.com or call 800•876•3333**

**Atlas Sound VARIZONE**
DIGITAL PUBLIC ADDRESS SYSTEM

**ISO9001**
-CERTIFIED-