

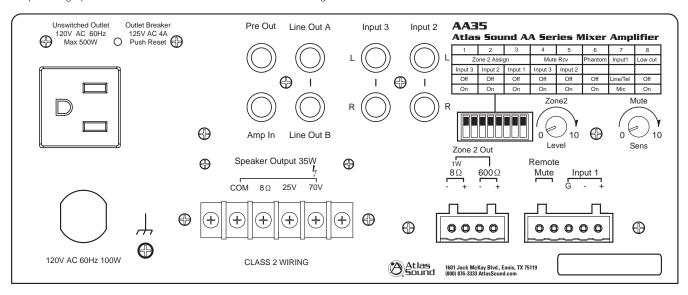
### **AA Series Mixer Amplifiers (UL 60065-ROHS 2006 Compliant)**



## ATLAS SOUND MIXER AMPLIFIERS

- 35 Watts of true output power for less money than most competitors
   15 Watt models
- 1 Mic in w/phantom power
- 2 Stereo line ins
- · 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 6dBu/octave at 400Hz and also bypasses front panel bass control to allow use with paging horns like APX40TN and AP.15T

The Atlas Sound **AA35**, a 3 input channel mixer amplifier 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 1 microphone input and (2) stereo line inputs the AA35 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 Ohm outputs are provided. The 35 Watts of output power will match nicely with Atlas Sound FAP, SM, SD, and GD series loudspeakers. In fact, in a 11' ceiling application, the AA35 will provide power for up to 117 SD72W loudspeakers tapped at .25 Watts each while providing upwards of 84dB in the direct sound field at ear height!



		AA35
POWER RATING		-20kHz with .5% THD (10-80kHz filter) RMS
INPUTS	Input 1 Mic Input 1 Telephone/Line Input 2/3	.316 ~ 3.16mV (-50 ~ -70dBV) 316mV (-10dBV) 10kΩ (optional 600Ω transformer available) 316mV (10dBV) 10kΩ
FREQUENCY RESPONSE	50Hz-20kHz	
DISTORTION	.5% or less, at 1kHz, rated ou .1% or less, at 1kHz, 5W outp	
OUTPUTS	Main: Zone 2- $8\Omega$ Zone 2- $600\Omega$	Transformer coupled, balanced, $8\Omega,$ 25V, and 70.7V Unbalanced 1W Balanced 1.5V
SIGNAL TO NOISE	Mic Line Telephone Input 2/3	>55dB >55dB >55dB >75dB
POWER CONSUMPTION	90W	
DIMENSIONS	8.27" x 3.66" x 10.87" (210	mm x 94mm x 276mm)
WEIGHT	10.2 lbs (4.64kg)	

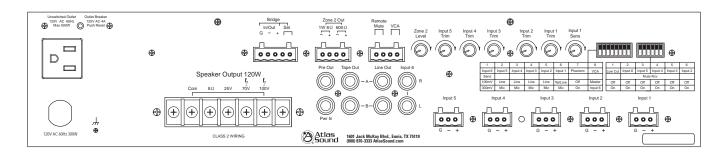


### AA120/AA240

- 6 channel mixer amp (120 and 240 Watt versions respectively)
- 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 6dBu/octave at 400Hz and also bypasses front panel bass control to allow use with paging horns like APX40TN and AP-15T
- Bridge in/out circuit with balanced link / internal relay to engage circuit is perfect for small room combining systems -eliminating the need for external electronics
- VCA control assignable to input 6 line level (BGM) input or global for the mix bus
- Pre out / power amp in for patching external processors

Looking for an amplifier to suit a large retail, commercial, or industrial paging and background music application? Look no further than the Atlas Sound AA120 amplifier. This powerful 120 Watt amplifier was engineered with unique features to assist the contractor or installer in today's commercial business audio environment. This 6 input unit features 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 included which may be assigned to the BGM input or globally for the entire amplifier. For higher output requirements, the model **AA240** is available with the same preamp section as the AA120, but with a larger 240 Watt power amp section.

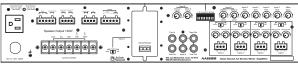


AA120/AA240							
POWER RATING	25V 70.7V 240W RMS 100V	AA120 AA120	120W RN	120W RM	AA240 S AA240	AA240	240W RMS
INPUTS	Input 1 Inputs 2-5 Input 6	Line/Tel Mic Line Mic Line	316mV (-10dBV) 1 .316mV~3.16mV (-1 316mV (-10dBV) 1 .316mV~3.16mV (-1 300mV/100mV (-10	0k Ohm (6009 50dBV~ -70dE 0k Ohm 50dBV~ -70dE	Ω w optional/ 3V)	(transformer)	240W KWC
FREQUENCY RESPONSE	50Hz-20kHz ± 3dB						
DISTORTION	<1% at rated p	ower (1kHz)	)				
OUTPUTS	Main: Zone 2- 8Ω Zone 2- 600Ω		Unbaland	Transformer coupled, balanced, $8\Omega$ , 25V, and 7 Unbalanced 1W Balanced 1.5V			V
SIGNAL TO NOISE	Mic Line Telephone		>55dB >55dB 75dB				
POWER CONSUMPTION	AA120 30	00 Watts	AA240	500 Watts			
DIMENSIONS	16.54"W x 4.2	19"H x 14.06	6"D (420mm )	< 107mm X 3	57mm)		
WEIGHT	AA120 26.44 I	bs (12kg)	AA2400 27.85	lbs (12.63kg)	)		



### **AA120M Amplifier (UL 60065-ROHS 2006 Compliant)**





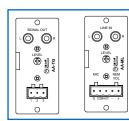
#### AA120M

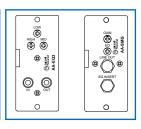
- 4 Mic inputs
- 1 Stereo line (BGM) input
- 1 Module input
- · Input trim control per channel
- Channel 2-5 can be configured for mute receive or mute send
- Separate zone 2/3 Matrix per channel
- Module input features mix bus or "amp direct" routing (Perfect for sound masking as masking source is not affected by front panel EQ settings and treble control can be used for adding HF to page in masking systems)
- Vox mute and contact closure mute may be assigned separately for "quasi" dual level mute priority via internal jumpers
- VCA control assignable to CH5 BGM input or main mix bus

- Bridge I/O with relay like AA120/AA240
- Zone 2 / 3 output (line level and 1W 8Ω)
- 24VDC output and patchable relay assignable to CC or Vox mute circuit (allows use of Atlas priority attenuators without any additional hardware)

Nicknamed the Swiss Army mixer amplifier, Atlas Sound's **AA120M** is possibly the most versatile mixer/amplifier on the market today. True 3 zone matrixing (main 120W output, 1W output and line level output), 24VDC output with relay sync to the mute bus, bridge in/out with built-in relay control, (1) 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 like sound masking, industrial paging, retail and BGM, commercial PA, priority volume control applications and hotel ballrooms/meeting rooms just to name a few.

		AA120N	1	
POWER RATING	Max. Average Power	@ 50Hz-20kH	z with .5% THD (10-80kHz filter) 8 Ohm, 1kHz, 120W RMS	
INPUTS	Input 1			
FREQUENCY RESPONSE	50Hz-20kHz ±3dB			
DISTORTION	<1% at rated power			
OUTPUTS	Main: Zone 2- $8\Omega$ Zone 2- $600\Omega$		Transformer coupled, balanced, 8Ω, 25V, and 70V Unbalanced 1W Balanced 1.5V	
SIGNAL TO NOISE	Input 1-4 Input 5	>55dB >75dB		
POWER CONSUMPTION	300 Watts			
DIMENSIONS	16.54"W x 4.24"H x 1	3.84"D	(420mm x 107.7mm x 351.5mm)	
WEIGHT	26.75 lbs (12.16kg)			





AA120M Modules (optional)

### OPPTIONAL MODULES FOR USE WITH MODEL AA120M.

**AA-TG** 3 tone chime generator module

**AA-ML** Mic/Line input module with remote volume (VCA)

AA-EQ3 3 band equalize module with patch points

**AA-SMG** Sound masking generator module with EQ and patch point for external processors

# **Amplifier Accessories**

#### AMPLIFIER ACCESSORIES.

AAIT-600 600 Ohms isolation input transformer for all AA series
AARMK2-0 Rack Mount Kit for (1) AA120/AA240 or (1) AA120M

**AARMK2-5** Rack Mount kit for (1) or (2) AA35 / PA601 **AAVCC-5** 5 pc Security cover kit for all AA series

AAVC-10K 10K Linear pot on Decora plate for VCA use with AA120/AA240, AA120M

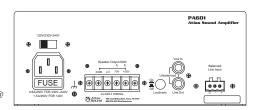
(includes white and ivory inserts, knobs and trim ring)





#### PA601.

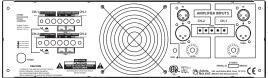
- · Simple clean power
- 60 Watt single input power amp
- 1 Balanced or Unbalanced input
- 1 Unbalanced line output
- Loudness contour switch (+4dBu @ 100Hz and 10kHz)



The **PA601** is the perfect choice for distributed background music (BGM) systems when the requirement is simple amplification without MOH or advanced mix functionality. The PA601 features 60 Watts of pure power in a compact package with simple rear mounted RCA I/O and a unique loudness contour control which provides just the right amount of low frequency enhancement for low level listening environments. (UL 60065-ROHS

PA601						
POWER RATING	(10-80kHz filter)					
INPUTS	Balanced Line (Phoenix) Unbalanced (RCA)	500mV (–6dBV) 20kΩ 500mV (–6dBV) 20kΩ				
FREQUENCY RESPONSE	50Hz-20kHz ±3dB	50Hz-20kHz ±3dB				
DISTORTION		.5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5W output				
OUTPUTS	Main Line Out	Transformer coupled, balanced, $4\Omega,$ 70.7V, and 100V Unbalanced $600\Omega$				
SIGNAL TO NOISE	Balanced Line Unbalanced	>55dB >75dB				
POWER CONSUMPTION	120VA					
DIMENSIONS	8.27" x 3.66" x 14" (210mm	8.27" x 3.66" x 14" (210mm x 93mm x 357mm)				
WEIGHT	14 lbs (6.58kg)					





### **CP700**

- Commercial Duty 350W/Ch (@70.7V) Stereo Power Amplifier
- 400 Watts per channel @  $4\Omega$  in direct coupled mode
- (2) 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

A professional grade audio power amplifier specifically designed for demanding contractor applications, the **CP700** features esoteric grade toroidal power supply and output transformers. These transformers were chosen for their outstanding reliability as well as extended frequency response (.3dB @ 30Hz - 70.7V output through

			CP700		
POWER RATING	25V 70V 100V 140V Bridged 200V Bridged	280W X 2 350W X 2 350W X 2 700W 700W	8 Ohm, 1kHz, 0.1% THD 4 Ohm, 1kHz, 0.1% THD 2 Ohm, 1kHz, 0.1% THD Bridged Mono 8 Ohm Bridged Mono 4 Ohm Max Average Power @ 35Hz-	240W X 2 400W X 2 550W X 2 850W (1kHz, 1% THD) 1100W (1kHz, 1% THD) 20kHz with 0.1% THD (10-80K Filter)	
INPUTS	Balanced/Unba	alanced	20k/10k (	Dhm	
FREQUENCY RESPONSE	Direct Outputs Transformer O		30Hz-50k B) 30Hz-16k		
DISTORTION	8 Ohm, 1kHz, 2	240W per cha	nnel <.05%		
SIGNAL TO NOISE	8 Ohms per Ch	annel @240V	V >100dB		
DIMENSIONS	132mm X 480r	132mm X 480mm X 428mm (5.19" X 18.9" X 16.85")			
WEIGHT	24.3kg (54 lbs)				

output transformers. These transformers were chosen for their outstanding rendering as well as extended frequency response (-3dB @ 30Hz - 70.7V output through transformer) Now you can have the peace of mind that systems specified with the CP700 will have true transformer output isolation, a feature that previously may have not been affordable due to the cost of quality external transformers. CP700's two 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 CP700 is the perfect answer for high power/ low cost amplification needs.



CP700 certified by ETL to UL 813 standard.



### **Power Supplies/Electronic Accessories**



RPS24-05



PS24-2R (Front View) PS24-2R PS24-50A PS24-4R



PS24-2R (Rear View) PS24-2R PS24-50A PS24-4R



PS24-20



TS242

### REGULATED DC POWER SUPPLY WITH 1/2 AMP OUTPUT

**RPS24-05.** Compact 24VDC model is offered for use where small, economical power supplies are required. RPS24-05 is recommended for telecommunication installations including small telephone systems and intercom/annunciator applications in industrial, institutional, service and educational facilities. Unit is fuse-protected in the primary, includes barrier strip terminals and has a 6 foot AC power cord. Finished in black epoxy.

MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 V FULL LOAD	SIZE L x W x H	WEIGHT
RPS24-05	117VAC 60Hz, 26W	24VDC ½ Amp	0.5mV	500mV	6¾" x 3%" x 2"	3 lbs. (1.4kg)

### **REGULATED DC POWER SUPPLIES WITH 2 & 4 AMP OUTPUT**

**PS24-2R/PS24-4R.** Assemblies with varying amp service are provided for applications that require excellent regulation and extremely low ripple including transistorized and solid-state control equipment and alarm/warning systems. Models are fuse-protected in the primary, include barrier strip terminals, have a 6 foot power cord, and will operate in an ambient temperature range of 0-50°C.

MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	SIZE L x W x H	WEIGHT
PS24-2R	105-125VAC 60Hz, 110W	24VDC 2 Amp	0.5mV	500mV	6¼" x 3¼" x 2¾" (337 x 159 x	15 lbs. (7g)
PS24-4R	105-125VAC 60Hz, 110W	24VDC 4 Amp	1mV	300mV	121mm)	16.5 lbs. (7.5kg)

Finished in black epoxy; larger models include a ventilated cover finished in textured black epoxy.

### **HEAVY-DUTY DC POWER SUPPLY WITH 5 AMP OUTPUT**

**PS24-50A.** Model offers 24VDC for applications that require a high-current DC supply including many types of telephone, annunciator and industrial paging systems, and installations with large numbers of relays. Unit is fused at the input and includes barrier-type terminals, keyhole mounting slots, ventilated cover and 6 foot AC line cord. Finished in black epoxy.

MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	SIZE L x W x H	WEIGHT
PS24-50A	117VAC 60Hz, 170W	24VDC 5 Amp	Less Than 2.5%	29-23V	13¼" x 6¼" x 4¾" (337 x 159 x 121mm)	15 lbs. (6.80kg)

### **GENERAL PURPOSE DC POWER SUPPLIES (2 AMP OUTPUT)**

**PS24-20.** Compact, multi-voltage unit is designed for a variety of general applications. Conversion is accomplished through a plug-in lead. Assembly is complete with fused-transformer primary, 6 foot power cord, and black epoxy finish.

**TS242.** UL Listed unit is used for a variety of applications that do not require a regulated supply. Model includes a 117VAC unswitched outlet, neon pilot lamp, barrier-type terminals, and 6 foot power cord.

	MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	SIZE L x W x H	WEIGHT
	PS24-20	117VAC 60 z, 70W	24, 12, 6 VDC 2 Amp	Less Than 2.5%	27-22V	6%" x 3%" x 4" (171 x 92 x 102mm)	4.5 lbs. (2.0kg)
*	TS242	105-125VAC 60Hz, 74W	24VDC 2 Amp	Less Than 0.5%	28-22.4V	3%" x 10%" x 6" (98 x 276 x 152mm)	10 lbs. (4.5kg)

<sup>\*(</sup>UL) LISTED UL 2017 Listed.

### **Power Supplies/Electronic Accessories**



### **POWER PACK**

**PS24-075.** Compact supply is designed to power the RPM/RLM Series DC relays and may also be used in a variety of annunciator applications. Includes positive, negative, and ground terminals with the negative terminal isolated from the ground. Complete with 6 foot power cord and black epoxy finish

MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	SIZE L x W x H	WEIGHT
PS24-075	117VAC 60Hz, 26W	24VDC ¾ Amp	Less than 1.5mV	26-22V	6¾" x 3%" x 2" (171 x 92 x 51mm)	3.5 lbs. (1.6 kg)

### **TELEPHONE POWER SUPPLY**

**TPS24-05.** Unit is a combination 24VDC/TALK voltage power supply engineered to power most common-talk telephone intercom systems (see Section 8). Finished in black epoxy and complete with 6' power cord. For information on common-talk intercom applications, request SL8-1433.

MODEL	INPUT	OUTPUT (Nom.)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	SIZE L x W x H	WEIGHT
TPS24-05	117VAC 60Hz, 26W	24VDC ½ Amp Talk Line	0.5mV	500mV	6¾" x 3%" x 2" (171 x 92 x 51mm)	3.0 lbs. (1.4 kg)

### **RACK-MOUNT POWER SUPPLY SHELF**

**PS-RK.** Accessory shelf provides convenient installation of Atlas Sound power supplies in 19" cabinets. Shelf supports up to four 6¼" L supplies or one 13¼" L unit. CRS assembly is finished in black textured epoxy and includes knockouts for line cords, front viewing hole for power indicator, and viewing hole plug. Size: 19" W x 8" D x 5½" H (483mm x 203mm x 133mm).

### **DC RELAY PACKS**

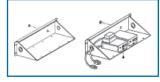
**RPM/RLM Series.** Modular chassis with individual plug-in relays provides configuration and expansion flexibility for application wherever a 24VDC, DPDT relay is required including zone paging, intercom, and telephone systems. Chassis is available in four sizes with 2, 4, 8, and 12 relay sockets. Plug-in DPDT relays prevent long-term oxidation problems and are offered in 3 and 5 amp versions (order separately). To eliminate bussing, one size of each relay coil is connected to a common terminal. Chassis is painted with black epoxy and includes a printed circuit board with barrier type terminals.

RELAY PACK CHASSIS MODULES (Without Relays)						
MODEL	RELAY SOCKET QUANTITY	SIZE				
RPM-2	2	4¾" L x 3½" W x 15/16" H				
RPM-4	4	5½" L x 4¾" W x 15/16" H				
RPM-12	12	15" L x 4¾" W x ¹5/₁6" H				

PLUG IN RELAYS (Ordered Relays)				
MODEL	TYPE	CONTACT MATERIAL	CONTACT RATING	POWER
RLM-24	DPDT	Fine, Silver, Gold Plated	1mA tp 3 Amp	24VDC
RLM-24-5	DPDT	Silver Cadmium Oxide	500mA to 5 Amp	@ 35mA



PS24-075



PS-RK



RPM-2 with Relays Installed

RPM-4 with Relays Installed



RPM-12 without Relays Installed



RLM-24 and RLM-24-5