

# **HPA2602**

# 2-Channel High Power Multi-Impedance Amplifier



#### HPA2602 Front



HPA2602 Back

#### Features

- 70.7V/100V and  $2\Omega$ ,  $4\Omega$ , and  $8\Omega$  Output
  - 70.7V 2 x 1300W 8Ω 2 x 800W 4Ω 2 x 1300W 2 x 1800W 2Ω • 8Ω BRIDGED 1 x 2500W
  - 4Ω BRIDGED 1 x 3200W
- Balanced Inputs Euro Block Phoenix Style Connector
- Remote Turn On
- Accessory Card Slot for Optional Dante™ Digital Network Audio Card
- Fault Reporting
- Soft Clip Limiter Protection
- Stepped Attenuators with Security Covers
- Stereo, Bridge, or Parallel Operating Modes
- Selectable Input Sensitivity
- · High Efficiency Fan Cooling
- Auto Sensing 120V/220V AC Mains Power Supply
- Meets Energy Star Standards for 1W Standby Mode

### **Applications**

The HPA2602 can be used for most audio applications whether it is for commercial installed 70V/100V distributed systems or professional high performance sound reinforcement applications. The HPA series will provide efficient, stable, reliable power making them the perfect choice for Night Clubs, House of Worship Systems, Portable Sound Systems, Convention Centers, Sports Venues, Hotels and Retail Centers.

## **General Description**

The AtlasIED High Power Amplifier "HPA" Series model HPA2602 has been designed to be versatile for use in both commercial 70V/100V distributed systems and professional applications that require amplifiers to handle 4 and 2 ohm loads.

The HPA Series features generation II Class I Output topology that provides efficiency similar to a Class D amplifier with the sound quality of a Class AB amplifier. The power supply is a switch mode global auto sensing generation 3 design that maintains a stable output during fluctuating power conditions. The power supply and output stage collectively are designed to deliver exceptional dynamic high output voltage and current to virtually any loudspeaker load.

The HPA Series features front panel stepped level controls with a security cover, remote turn on, balanced line inputs with sensitivity settings, fault reporting and an accessory card slot for an optional Dante™ 2-channel digital audio interface. Cooling is not an issue because of the unique output stage low resistance direct couple thermal transfer design. HPA also is energy efficient and meets Energy Star 1W standby mode standards.

Whether the application is a large distributed constant voltage sound system or a high SPL sound reinforcement system, the AtlasIED HPA Series is the answer for high power/cost effective reliable amplification requirements.



Total Harmonic Disortion   Telf2 and 1 dB Below   Related Provee   Signat to Nose Related   Signat to Nose Related   Signate Nose Related   Signated Nose Related	Electrical Specifications (General)				
Rateo   Rower					
Product of Response   20Hz - 20Hz - (-0/-15-8B)		0.0070			
Spew Note	Signal to Noise Ratio	>85dB Below Rated Output (A-Weighted)			
See	Frequency Response	20Hz - 20kHz (+0/-1.5dB)			
Damping Factor (20Hz to 400Hz)         >8800           Gain         404B 80 Factory Ship or 32dB Assignable           Cosstalk CHI-2 & CHI-2 (19 Cosstalk CHI-2 & CHI-2	Input Sensitivity	0.775V / 1.0V / 32dB (Selectable)			
Gain         40d8 8Ω Factory Ship or 32d8 Assignable           Crosstatic CH1-2 & CH2-1         >70d8           Max Votrage Per Output AQ         16.6A           Protection         Soft Start, Input RF, DC, Short Circuit, Current Overload, Clip Limit, AC Mains Under / Over Voltage Shut Off, Peac Current Limit, Over Femp           AC Power Requirements           Coperating Voltage Auto SWitch, 50/60/bt 8         88V 180V - 284V           Mainimum Powers Up Voltage           Mainimum Operating Voltage         88V           Maximum Operating Voltage         284V           Mainimum Operating Voltage         28V           Maximum Operating Voltage         28V           Mainimum Operating Voltage         28V           Voltage Surver Up Voltage Switch           Mainimum Operating Voltage         28V           Maximum Operating Voltage Mainimum Operating Voltage Mainimu	Slew Rate	>10V/µs			
Crossralk CH1-2 & CH2-1         >700B           Max Votrent per Output 4Ω         8ZV           Max Current per Output 4Ω         16.6A           Protection         Soft Start, Input RF, DC, Short Circuit, Current Overload, Clip Limit, AC Mains Under / Over Voltage Shut Off, Peak Current Limit, Over Temp           AC Power Requirements           Operating Voltage Auto Switch, 50/601/2         85V-135V & 180V -264V           Minimum Power-Up Voltage         8BV           Maximum Operating Voltage         26V           Maximum Operating Voltage         26V           Maximum Operating Voltage         126V           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge 18M Cord w/ NEMA 5-20 Male Plug           Power Cord (Ships Virit)         IEC 12-Cauge New Plug Virit           <	Damping Factor (20Hz to 400Hz)	>800			
Max Voltage Per Output 8D         87V           Max Current per Output 4Q         16.6A           Protection         Soft Start, Input RF DC, Short Circuit, Current Overload, Clip Limit, AC Mains Under / Over Voltage Shut Off, Peak Current Limit, Over Temp           AC Power Requirements           Operating Voltage Auto Switch, 50;60Hz         88V           Maximum Operating Voltage           Mains Connector         C20 IEC Receptacle/Looking           Power Consumption & Current Draw @ 120V AC Mains         USD 152 Receptacle/Looking           Power Consumption & Current Draw @ 120V AC Mains         88V           Standay Mode         16 330mA         .6W         2 BTU           Idle Active         1.48A         .65W         267 BTU           Average Power 70.7V, All CH Driven         1.31A         1550W         3121 BTU           Average Power 70.7V, All CH Driven         1.84A         2160W         4857 BTU           Max Power 4 Ohm, All CH Driven         1.84A         2160W         4857 BTU           Max Power 70.7V, All CH Driven         1.84A         2208W         4751 BTU           Cooling System         Fan Verible With Temerature           Air Intel Filter         Yes, Rear, Weshable           Cooling Acception         Rear to F	Gain	40dB (8Ω Factory Ship or 32dB Assignable)			
Max Current per Output 4Ω   16.6A	Crosstalk CH1-2 & CH 2-1	>70dB			
Protection         Spifs Start, Input REP, DC, Short Circuit, Current Overload, Clip Limit, AC Mains Under / Over Voltage Shut ORf, Page Accurrent Limit, Over Temp           AC Power Requirements         Voltage Auto Switch, 50/60Hz         88V-135V & 150V-264V           Minimum Power-Up Voltage         88V           Maximum Operating Voltage         264V           Mains Connector         C20 IEC Receptacle/Locking           Power Cord (Ships With)         IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug           Power Consumption & Current Draw @ 120 V AC Mains         85W         2 BTU           Standby Mode         330mA         .0W         2 BTU           Idle Active         1.48A         85W         267 BTU           Average Power 20,77, All CH Driven         13A         1560W         3121 BTU           Average Power 4, Ohm, All CH Driven         18A         208W         4857 BTU           Max Power 4, Ohm, All CH Driven         18A         208W         4751 BTU           Max Power 4, Ohm, All CH Driven         18A         208W         4751 BTU           Max Power 10V, All CH Driven         18A         208W         4751 BTU           Max Power 10V, All CH Driven         18A         208W         4751 BTU           Max Power 20V, All CH Driven         18A         208W <td>Max Voltage Per Output <math>8\Omega</math></td> <td colspan="3">82V</td>	Max Voltage Per Output $8\Omega$	82V			
Peak Current Limit, Over Temp	Max Current per Output $4\Omega$	16.6A			
Operating Voltage Auto Switch, 60/60Hz         88V-135V & 180V - 264V           Maximum Operating Voltage         88V           Maximum Operating Voltage         264V           Value Consisting Voltage         264V           Value Consisting Voltage         264V           Value Consisting Voltage         1EC 12-Gauge 1,5M Cord w/ NEMA 5-20 Male Plug           Power Consumption & Current Draw @ 120V XC Mains           Standly Mode         330mA         .6W         2 BTU           Idle Active         1.48A         .6W         2 BTU           Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 70.7V, All CH Driven         18A         2160W         4857 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4575 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4575 BTU           Max Power 30, All CH Driven         18A         2160W         4575 BTU           Max Power 20, All CH	Protection				
Minimum Power-Up Voltage         88V           Maximum Operating Voltage         264V           Mains Connector         C20 IEC Receptacle/Locking           Power Cord (Ships With)         IEC 12-Gauge 1.5M Cord w NEMA 5-2 Maile Plug           Power Cord (Ships With)         IEC 12-Gauge 1.5M Cord w NEMA 5-2 Maile Plug           Standby Mode         330mA         .6W         2 BTU           Idle Active         1.48A         85W         267 BTU           Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 70V, All CH Driven         18A         2160W         4857 BTU           Max Power 70V, All CH Driven         18A         2160W         4957 BTU           Max Power 70V, All CH Driven         18A         2160W         4957 BTU           Cooling           System         Fan (Varible With Temerature)           Air Institute           Air Institute           System Search System           Air Institute           Dimensions and Weight           Back Mount Requirements         2 RU, 19°         2 RU, 19°         2	AC Power Requirements				
Maximum Operating Voltage         264V           Mains Connector         C20 IEC Receptacle/Locking           Power Cord (Ships With)         IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug           Power Consumption & Current Draw @ 120V AC Mains         BETUING           Standby Mode         330mA         .6W         2 BTU           Idle Active         1.4BA         85W         267 BTU           Average Power 4 Ohn, All CH Driven         13A         1660W         3121 BTU           Average Power 70.7V, All CH Driven         13.1A         1572W         3134 BTU           Max Power 4 Ohn, All CH Driven         18.4A         2160W         4857 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Max Power 10V, All CH Driven         18.4A         208W         4751 BTU           Max Power 10V, All CH Driven         18.4A         208W         4751 BTU           Cooling Air Flow Division         8ex Feer, Washale           Cooling Air	Operating Voltage Auto Switch, 50/60Hz	88V-135V & 180V -264V			
Mains Connector         C20 IEC Receptacle/Locking           Power Cord (Ships With)         IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug           Power Consumption & Current Draw @ 120V AC Mains           Standby Mode         330mA         .6W         2 BTU           Idle Active         1.48A         .85W         .267 BTU           Average Power 40 hm, All CH Driven         13A         1560W         .312 BTU           Average Power 40 hm, All CH Driven         13.1A         1572W         .313 BTU           Max Power 40 hm, All CH Driven         18A         2160W         .4857 BTU           Max Power 40 hm, All CH Driven         18.4A         2208W         .4751 BTU           Cooling         5         .4         <	Minimum Power-Up Voltage	88V			
Power Cord (Ships With)   IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug	Maximum Operating Voltage	264V			
Standby Mode	Mains Connector	C20 IEC Receptacle/Locking			
Standby Mode         330mA         .6W         2 BTU           Idle Active         1.48A         85W         267 BTU           Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 70.7V, All CH Driven         13.1A         1572W         3134 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Cooling System           Fan (Varible With Temerature)           Cooling System         Fan (Varible With Temerature)           Cooling Air Flow Direction         Rear to Front           Dimensions and Weight           Page Was As Weight           Dimensions - Unit         19"W x 3.5"H x 15"D (483mm x 89mm)           Dimensions - Shipping         23"W x 6.5"H x 22"D (584mm x 165mx x 558mm)           Weight - Unit         28.5 lbs. (12.8kg)           Weight - Shipping         28.5 lbs. (12.8kg)           Agency Approvals           Shipping         ET.           Agency Approvals           Shipping         60065 <td c<="" td=""><td>Power Cord (Ships With)</td><td colspan="3">IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug</td></td>	<td>Power Cord (Ships With)</td> <td colspan="3">IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug</td>	Power Cord (Ships With)	IEC 12-Gauge 1.5M Cord w/ NEMA 5-20 Male Plug		
Idle Active         1.48A         85W         267 BTU           Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 70.7V, All CH Driven         13.1A         1572W         3134 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4867 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Cooling           Expressions System         Fan (Varible With Temerature)           Cooling System         Fan (Varible With Temerature)           Cooling Air Flow Direction         Rear to Front           Dimensions and Weight           Rack Mount Requirements         2 RU, 19°           Dimensions - Unit         19°W x 3.5°H x 15°D (483mm x 89mm x 381mm)           Dimensions - Shipping         23°W x 6.5°H x 22°D (684mm x 165mm x 558mm)           Weight - Unit         28.5 lbs. (12.8kg)           Weight - Shipping         3.5 lbs (15.5kg)           Agency Approvals           North America Agency         ETL           Testing Standard North America         60065           FCC Class A (Conducted & Radiated Emissions)         Part 15 of the FCC Rules           CE         Ves (Includes RoHS & W	Power Consumption & Current Draw @ 120V AC Mains				
Average Power 4 Ohm, All CH Driven         13A         1560W         3121 BTU           Average Power 70.7V, All CH Driven         13.1A         1572W         3134 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Cooling           Cooling System         Fan (Varible With Temerature)           Air Inlet Filter         Yes, Rear, Washable           Cooling Air Flow Direction           Rear to Front           Dimensions and Weight           Rack Mount Requirements         2 RU, 19°           Dimensions - Shipping         23°W x 3.5°H x 15°D (483mm x 89mm x 381mm)           Dimensions - Shipping         23°W x 6.5°H x 22°D (584mm x 165mm x 558mm)           Weight - Unit         28.5 lbs. (12.8kg)           Weight - Shipping         34.5 lbs (15.5kg)           Agency Approvals           North America Agency         ETL           Testing Standard North America         60065           FCC Class A (Conducted & Radiated Emissions)         Part 15 of the FCC Rules           Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Col	Standby Mode	330mA	.6VV	2 BTU	
Average Power 70.7V, All CH Driven         13.1A         1572W         3134 BTU           Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Cooling           Cooling System         Fan (Varible With Temerature)           Air Inlet Filter         Yes, Rear, Washable           Cooling Air Flow Direction         Rear to Front           Dimensions and Weight           Rack Mount Requirements         2 RU, 19°           Dimensions - Unit         19°W x 3.5°H x 15°D (483mm x 89mm x 381mm)           Dimensions - Shipping         23°W x 6.5°H x 22°D (584mm x 165mm x 558mm)           Weight - Shipping         34.5 lbs (12.8kg)           Weight - Shipping         34.5 lbs (15.5kg)           Agency Approvals           North America Agency         ETL           Testing Standard North America         60065           FCC Class A (Conducted & Radiated Emissions)         Part 15 of the FCC Rules           CE         Yes (Includes RoHS & WEEE)	Idle Active	1.48A	85W	267 BTU	
Max Power 4 Ohm, All CH Driven         18A         2160W         4857 BTU           Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU           Cooling           Cooling System         Fan (Varible With Temerature)           Air Inlet Filter         Yes, Rear, Washable           Cooling Air Flow Direction         Rear to Front           Dimensions and Weight           Rack Mount Requirements         2 RU, 19°           Dimensions - Unit         19°W x 3.5°H x 15°D (483mm x 89mm x 381mm)           Dimensions - Shipping         23°W x 6.5°H x 22°D (584mm x 165mm x 558mm)           Weight - Unit         28.5 lbs. (12.8kg)           Weight - Shipping         34.5 lbs (15.5kg)           Agency Approvals           North America Agency         ETL           Testing Standard North America         60065           FCC Class A (Conducted & Radiated Emissions)         Part 15 of the FCC Rules           CE         Yes (Includes RoHS & WEEE)	Average Power 4 Ohm, All CH Driven	13A	1560W	3121 BTU	
Max Power 70V, All CH Driven         18.4A         2208W         4751 BTU              Fan (Varible With Temerature) <td air="" coloring="" direction="" flow="" flow<="" td=""><td>Average Power 70.7V, All CH Driven</td><td>13.1A</td><td>1572W</td><td>3134 BTU</td></td>	<td>Average Power 70.7V, All CH Driven</td> <td>13.1A</td> <td>1572W</td> <td>3134 BTU</td>	Average Power 70.7V, All CH Driven	13.1A	1572W	3134 BTU
CoolingCooling SystemFan (Varible With Temerature)Air Inlet FilterYes, Rear, WashableCooling Air Flow DirectionRear to FrontDimensions and WeightRack Mount Requirements2 RU, 19°Dimensions - Unit19°W x 3.5°H x 15°D (483mm x 89mm x 381mm)Dimensions - Shipping23°W x 6.5°H x 22°D (584mm x 165mm x 558mm)Weight - Unit28.5 lbs. (12.8kg)Weight - Shipping34.5 lbs (15.5kg)Agency ApprovalsNorth America AgencyETLTesting Standard North America60065FCC Class A (Conducted & Radiated Emissions)Part 15 of the FCC RulesCEYes (Includes RoHS & WEEE)	Max Power 4 Ohm, All CH Driven	18A	2160W	4857 BTU	
Cooling SystemFan (Varible With Temerature)Air Inlet FilterYes, Rear, WashableCooling Air Flow DirectionRear to FrontDimensions and WeightRack Mount Requirements2 RU, 19°Dimensions - Unit19°W x 3.5°H x 15°D (483mm x 89mm x 381mm)Dimensions - Shipping23°W x 6.5°H x 22°D (584mm x 165mm x 558mm)Weight - Unit28.5 lbs. (12.8kg)Weight - Shipping34.5 lbs (15.5kg)Agency ApprovalsNorth America AgencyETLTesting Standard North America60065FCC Class A (Conducted & Radiated Emissions)Part 15 of the FCC RulesCEYes (Includes RoHS & WEEE)	Max Power 70V, All CH Driven	18.4A	2208W	4751 BTU	
Air Inlet Filter Yes, Rear, Washable  Cooling Air Flow Direction Rear to Front  Dimensions and Weight  Rack Mount Requirements 2 RU, 19'  Dimensions - Unit 19"W x 3.5"H x 15"D (483mm x 89mm x 381mm)  Dimensions - Shipping 23"W x 6.5"H x 22"D (584mm x 165mm x 558mm)  Weight - Unit 28.5 lbs. (12.8kg)  Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Cooling				
Cooling Air Flow Direction Rear to Front  Dimensions and Weight Rack Mount Requirements 2 RU, 19* Dimensions - Unit 19*W x 3.5*H x 15*D (483mm x 89mm x 381mm) Dimensions - Shipping 23*W x 6.5*H x 22*D (584mm x 165mm x 558mm) Weight - Unit 28.5 lbs. (12.8kg) Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals North America Agency ETL Testing Standard North America 60065 FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules CE Yes (Includes RoHS & WEEE)	Cooling System	Fan (Varible With Temerature)			
Dimensions and Weight Rack Mount Requirements 2 RU, 19' Dimensions - Unit 19"W x 3.5"H x 15"D (483mm x 89mm x 381mm) Dimensions - Shipping 23"W x 6.5"H x 22"D (584mm x 165mm x 558mm) Weight - Unit 28.5 lbs. (12.8kg) Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals North America Agency ETL Testing Standard North America 60065 FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules CE Yes (Includes RoHS & WEEE)	Air Inlet Filter	Yes, Rear, Washable			
Rack Mount Requirements 2 RU, 19"  Dimensions - Unit 19"W x 3.5"H x 15"D (483mm x 89mm x 381mm)  Dimensions - Shipping 23"W x 6.5"H x 22"D (584mm x 165mm x 558mm)  Weight - Unit 28.5 lbs. (12.8kg)  Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Cooling Air Flow Direction	Rear to Front			
Dimensions - Unit  19"W x 3.5"H x 15"D (483mm x 89mm x 381mm)  Dimensions - Shipping  23"W x 6.5"H x 22"D (584mm x 165mm x 558mm)  Weight - Unit  28.5 lbs. (12.8kg)  Weight - Shipping  34.5 lbs (15.5kg)  Agency Approvals  North America Agency  ETL  Testing Standard North America  60065  FCC Class A (Conducted & Radiated Emissions)  Part 15 of the FCC Rules  CE  Yes (Includes RoHS & WEEE)  Optional Accessories	Dimensions and Weight				
Dimensions - Shipping 23"W x 6.5"H x 22"D (584mm x 165mm x 558mm)  Weight - Unit 28.5 lbs. (12.8kg)  Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Rack Mount Requirements	2 RU, 19"			
Weight - Unit 28.5 lbs. (12.8kg) Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Dimensions - Unit	19"W x 3.5"H x 15"D (483mm x 89mm x 381mm)			
Weight - Shipping 34.5 lbs (15.5kg)  Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Dimensions - Shipping	23"W x 6.5"H x 22"D (584mm x 165mm x 558mm)			
Agency Approvals  North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Weight - Unit	28.5 lbs. (12.8kg)			
North America Agency ETL  Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Weight - Shipping	34.5 lbs (15.5kg)			
Testing Standard North America 60065  FCC Class A (Conducted & Radiated Emissions) Part 15 of the FCC Rules  CE Yes (Includes RoHS & WEEE)  Optional Accessories	Agency Approvals				
FCC Class A (Conducted & Radiated Emissions)  Part 15 of the FCC Rules  CE  Yes (Includes RoHS & WEEE)  Optional Accessories	North America Agency	ETL			
CE Yes (Includes RoHS & WEEE)  Optional Accessories	Testing Standard North America	60065			
Optional Accessories	FCC Class A (Conducted & Radiated Emissions)	Part 15 of the FCC Rules			
	CE	Yes (Includes RoHS & WEEE)			
HPA-DAC2 - Dante™ Digital Audio Interface 2 Channel Receive (Only)- Field Installable	Optional Accessories				
	HPA-DAC2 - Dante™ Digital Audio Interface	2 Channel Receive (Only)- Field Insta	allable		

#### NOTES:

- 1. Power level measurment is define as follows: 1Hz Sine wave signal burst of 20 cycles (20mS) at 1% THD+N, followed by 480 cycles of a 1kHz sine wave at 10% of the max power. Other power measurements are available upon requests.
- 2. Average Power is defined as Pink Noise input signal applied to achieve 1/4 of the 4 Ohm or 70.7V power rating.
- 3. Max Power is defined as 1 KHz input signal applied to achieve the maxium power output before clipping into a 4 Ohm or 70.7V load.
- 4. HPA2602 maximum voltage output is 85V.





# **Architect and Engineer Specifications**

The power amplifier shall be a 2-channel second generation Class I multi-impedance amplifier capable of driving 70.7V,  $8\Omega$ ,  $4\Omega$ ,  $2\Omega$ ,  $8\Omega$ bridged, and  $4\Omega$  bridged load conditions. The amplifier shall have multiple internal circuits to protect itself and connected speakers from Input RF, output DC, output short circuits, current overload, clipping, AC mains under or over voltage, peak current limit, and thermal overload. A variable speed fan shall provide rear to front airflow for dynamic cooling. The universal auto-switch 50/60Hz power supply operating range shall be 88V-135V & 180V-264V. The AC Mains inlet shall be C20 IEC Locking Receptacle and ship with a IEC 12-guage 1.5M cord with a fixed NEMA 5-20 Male Plug. The HPA2602 shall meet Energy Star 1W Standby Mode Standards. Power ratings shall equal or exceed 1300W x 2 @ 70.7V or 800W x 2 @ 8 Ohms. Each balanced Line input channel shall have a selectable input sensitivity of 0.775V, 1.0V, or 32dB, and frequency response shall be 20Hz-20kHz (+0/-1.5dB) with a Signal to Noise Ratio of >85dB below rated output (A-Weighted). Front panel indicators shall include ready, signal present, limiter, and protection LEDs. Front panel level controls shall be stepped attenuators with security covers included. Input terminations shall be removable 3.5mm Phoenix style connectors and loudspeaker outputs shall be a removable 4-position Phoenix style connector capable of accepting up to 6 AWG wire. A switch on the rear panel shall provide selection of stereo, parallel or bridge modes of operation. Rear panel 5 position Phoenix style GPIO ports shall provide Remote Turn On and Fault Reporting for each channel. The amplifier shall have one (1) rear mounted Accessory Card slot. This slot shall be for an HPA-DAC2, a 2-channel Dante™ Digital Audio Input Card. Dimensions shall be 2 RU, 3.5" x 19" x 15" (89mm x483mm x 381mm) and the amplifier shall weigh 28.5lbs (12.8kg).

The amplifier shall be AtlasIED HPA2602.