

DPA602

Multi-Channel Network Amplifier



DPA602 Front



DPA602 Back

Features

- Configurations
 - 2 x 300 Watt 70V / 100V (Factory Default)
 - 4 x 150 Watt @ 4Ω
 - 1 x 300 Watt 70V / 100V & 2 x 150 Watt @ 4Ω
- No Computer Required to Operate
- Networkable
- Configurable DSP Via GUI
- PC Based DPA Site Manager Software With LAN IP Auto-Discovery, Fault Reporting, Input & Output Status, Standby Status and Amplifier Remote Activation Via A Scheduler Timer
- On-Board Web Browser GUI for Remote Monitoring of Status &
- User Page With Assignable Level Control, Post Contractor Settings, Password Protection
- Mute Assignments Triggered Via Audio Signal or Contact Closure
- Audio Sense Auto Power Down (APD)
- DSP Parameters per Output, Parametric EQ, Hi & Lo Cut Filters, Delay, Limiter
- Four (4) Balanced Inputs, Expandable to eight (8) via Accessory
- Optional Accessory Card Slot for a DPA-DAC4 4-channel Dante™ receiver or a DPA-AMIX (2) Mic / Line, (2) AUX input card
- PC, iOS®, & Android® Controllable
- Assignable Level Controls, On Board GUI (Security Password Protected) or by Front Panel Pots with Tamper Deterring Covers
- Four (4) GPIO Control Ports Assignable in GUI for Mute or Remote
- Controllable From Third-Party Controllers

Applications

The flexible DSP, remote web monitoring, and control of the DPA Series amplifiers makes them the perfect choice for presentation rooms, classrooms, conference rooms, and retail background / foreground music applications.

General Description

The AtlasIED DPA Series amplifiers feature a combination of flexibility, performance, and control to provide high value features for applications that require more than just great sound. The network enabled DPA series amplifiers are DSP controlled 4-channel amplifiers that can be configured in three different amplification arrangements to meet a wide range of installation design requirements.

DPA amplifiers can be used right out of the box in their factory default configuration as traditional 2-channel 70.7V/100V commercial power amplifiers requiring no programming, special set-up, or network connectivity. However, when web enabled, the DPA amplifiers can be configured in 4-channel mode with either 4Ω or 8Ω load impedances for two stereo zones. Many system designs require both low and high impedance amplification. The DPA series can be configured for a 70.7V/100V paging/background system on one channel and the other two channels can be used for $4\Omega/8\Omega$ foreground stereo applications.

The DPA comes standard with four balanced line inputs and an accessory slot for an optional DPA-DAC4 4-channel Dante™ receiver card or a DPA-AMIX (2) mic/line and (2) AUX input card, for a total of 8 inputs. All inputs can be mixed and routed to any of the four amplifier channels. All amplifier channels have an assortment of DSP tools including level controls, EQ's, limiters, high & low pass filters, and delay to provide flexibility for a range of applications.

The output level can be assigned to either the front panel potentiometers or to the onboard GUI. Wired remote level control can be configured to allow simple control for the end user. Each unit also features GUI based input and output level metering along with assignable mute functions that are triggered via an audio signal or contact closure. Access to the DSP settings is accomplished via computer, tablet, or mobile device using a web browser. All settings can be password protected.

The DPA series amplifiers also include PC based site manager software that automatically searches within a specific network for all DPA amplifiers on the network. It will list them and allow a single click access to any unit. The DPA Site Manager software can do a variety of functions besides locating IP addresses such as; fault reporting, input & output status, standby status and remote activation via a scheduler timer.

The flexibility of the DPA Series amplifiers and comprehensive assortment of local or network control configurations make them an ideal choice in today's sophisticated commercial audio market.

Type	Custom	
Power Sapply Type	System	COOWANT A Channel Configurable Natural Digital Commercial Devent Assetting
Amp Tapadagy Class AB Hybrid SASH Number of Flood Inputs 1 Consessory Inputs 4 (Optoral Accessory Card Requires) DSF Internal Yea National Ethernet Optoral Accessory Card Stot Yea x 1 Output Power (Note 1) TOWN X 2 CH 200 X 2 CH 300W 700 X 2 CH 300W 100 X 4 CH 300W 100 X 4 CH 300W 100 X 1 - 48 X 2 CH 300W/150W 100 X 1 - 48 X 2 CH 300W/150W 100 X 1 - 48 X 2 CH 300W/150W Factory Default Settings (As Shipped) Ampflier Configuration Factory Default Settings (As Shipped) Remote Level, CL 18 & Levels Active CHO Control Parts (Rear Panel) Remote Level, CL 19 X 10 Levels Active CHO Control Parts (Rear Panel) Remote Level, CL 19 X 10 Levels Active CHO Control Parts (Rear Panel) Remote Level, CL 19 X 10 Levels Active Hipput Dampton Parts (As Shipped) Auto Review Down (APT) Disabled Imput Dampton April As Balanced Inputs, Expandable to II vis Accessory Card <t< td=""><td></td><td></td></t<>		
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Limiter Each Output up to 12dB of Assignable Limiting	EQ	5 Parametric Filters Per Output
	Delay	60mS Per Output
	Limiter	Each Output up to 12dB of Assignable Limiting
	DSP Frequency Type	48k, 24bit



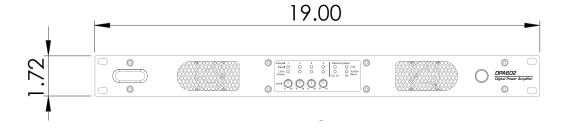
Control Ports (Rear Panel)					
GPIO Port	QTY 4, Remote Level & Mute Function	s, Assignable, PHX Connector			
Ethernet	GUI Access, RJ45				
Output Terminals (Speaker)					
Output Connectors Type	Screw Terminal Barrier Strip with Cover				
Output Connectors Number of Terminals	8				
Output Connectors Fixed or Removable	Fixed				
Wire Size	18-10 AWG When Using Yellow Spade Lug .250 Terminal, QTY 8 Included (Class 3 Wiring Required)				
Terminal Spacing	.300" (7.62mm)				
Current Rating	25A per Terminal				
Electrical Specifications (General)					
Total Harmonic Distortion 1 kHz and 1 dB Below Rated Power	0.03%				
Signal to Noise Ratio	>100dB Below Rated Output (A-weight	ted)			
Frequency Response	20Hz - 20kHz (DSP Filters Set to Flat)				
Damping Factor (20Hz to 400Hz)	78.46 (78)				
Crosstalk CH1-2 & CH 2-1	73dB				
Max Output Peak Voltage 8Ω Per CH	36V				
Max Output Peak Current 4Ω Per CH	7.2A				
Slew Rate	>6V/µS				
Protection	Hi/Low Input Voltage, Thermal, Short, Over Current				
AC Power Requirements	in the second se				
Operating Voltage	110V-120V & 220V -230V 50/60Hz, Aut	o Sense			
Minimum Power-Up Voltage	90V				
Maximum Operating Voltage	264V				
Mains Interface	IEC 15A Receptical				
Power Cord (Included)	1.5m, IEC C13 to NEMA 5-15P Plug, 18AWG				
Power Consumption and Current Draw	3, 2				
Sleep Mode	94mA	3.5W	12 BTU		
Standby APD Mode (Note 2)	210mA	14W	48 BTU		
Idle Active Mode (Note 2)	473mA	38W	130 BTU		
Average Power 4 Ohm All Channels Driven (Note 3)	2.2A	285W	700 BTU		
Average Power 70V, All Channels Driven (Note 3)	2A	224W	546 BTU		
Max Power 4 Ohm, All Channels Driven (Note 4)	6.19A	718W	1085 BTU		
Max Power 70V, All Channels Driven (Note 4)	7.4A	704W	390 BTU		
Cooling					
Cooling System	Idle: Convection, In Use: Signal Sense	Variable Speed Fan Assist			
Cooling Air Flow Direction	Rear to Front				
Dimensions and Weight					
Rack Mount Requirements	1 RU, 19"				
Dimensions - Unit	W 19" x H 1.72" x D 14.5" (483mm x 45mm x 368mm)				
Dimensions - Shipping	W 24.5" x H 3.5 " x D 18.7" (635mm x 89mm x 477mm)				
Weight - Unit	13 lbs. (5.92kg)				
Weight - Shipping	17.4 lbs (7.94kg)				
Agency Approvals					
North America Agency	TUV				
Testing Standard North America	60065				
FCC Class A (Conducted & Radiated Emissions)	Part 15 of the FCC Rules				
	1 . 2		Yes (Includes RoHS & WEEE)		

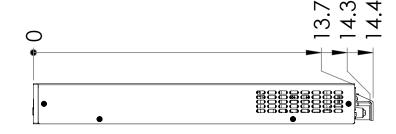
Optional Accessories		
DPA Site Manager Software		
AA-YSUM	Stereo Signal Passive Summing Cable	
WPD-VC10K	Potentiometer on Wall Plater for Remote Level Control	
DPA-DAC4	4 CH Dante™ Receiver	
DPA-AMIX	Analog 4 CH Mic / Line / AUX Input Card	

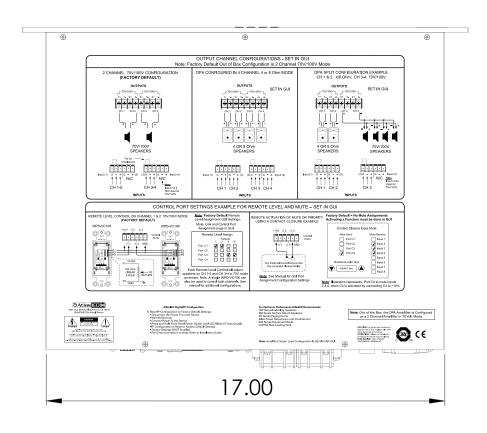
NOTES:

- 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. Power measurement with Ethernet connected. Without Ethernet connected deduct .2W
- 3. Average Power is defined as Pink Noise input signal applied to achieve 1/4 of the 4 Ohm or 70.7V power rating.
- 4. 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.

Dimensional Drawings







TELEPHONE: (800) 876-3333

FAX (800) 765-3435

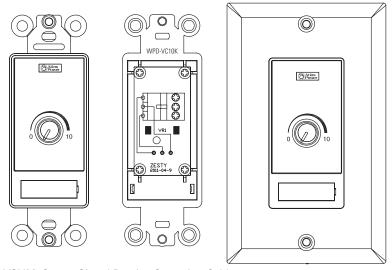
Optional Accessories



DPA-AMIX - 4-Channel Mic / Line AUX Mixer Amp Card



WPD-VC10K: Potentiometer on Wall Plater for Remote Level Control



AA-YSUM: Stereo Signal Passive Summing Cable





Architect and Engineer Specifications

The power amplifier shall be a 4-channel switch mode power amplifier with efficient BASH Hybrid topology output circuitry. The amplifier shall be configurable as 4-channel low impedance 4Ω or 8Ω mode, 2-channel high impedance 70V/100V mode, or 2-channel low impedance 4Ω or 8Ω and 1-channel high impedance 70V/100V mode. The amplifier shall be shipped factory preset in two-channel 70V/100V onfiguration. The I/O router shall be configured as follows: Input 1 routed to Outputs 1 and 2 and Input 3 routed to Outputs 3 and 4 and will not require a computer or network to use in

The performance specifications shall match or exceed the following: 70V / 100V x 2CH = 300W; 4Ω x 4CH = 150W; 8Ω 2 4CH = 75W (reference specifications Notes 1-4); Input Sensitivity 750mV Balanced, 0dBU; Input Impedance Balanced 40K Ohms; Max Input Level channels 1-4, +14dBU, 7dBU inputs 5-8 with Dante™; THD 1% at rated output, .2% Typical; Frequency Response -3dB 20Hz - 20kHz (DSP set to flat); Signal to Noise Ratio -100dB Below Rated Output -A Weighted; Crosstalk >70dB @1kHz; Protection circuits =Thermal, Short, Signal Limiter; Sleep Mode (Ethernet Active) 3.5W, 12BTU; Standby/ADP mode 14W, 48BTU; Max Power All CH driven 70.7V/100V (default mode) = 704W, 390BTU. Dimensions: 1 x RU, 19" W x 1.72" H x 14.5" D. Weight 13.1 lbs.

The power amplifier shall have a front panel power switch and three states of idle power: Idle Active Mode, Sleep Mode, and Standby Auto Power Down (APD) Mode. Each mode shall have an LED indicator on the front panel indicating the power status. When in Sleep Mode, the Ethernet shall remain active for access to the amplifiers on board GUI.

The amplifier shall include convection cooling with dynamic fan assist for extreme conditions. If the unit is not being used or in Standby mode, the fan shall not be needed for cooling and shall remain Off until the unit is in heavy use. As heat is generated in the amplifier during use, the fan shall activate at a low speed and increase as needed to maintain the amplifier at safe operating temperature. The amplifier's air flow shall be from rear to

The front panel controls shall consist of four volume controls that can be removed and replaced with included security covers. Above each volume control, LED indicators for Signal and Limit/Protect/Mute shall signal the amplifier output operating condition. The 4-channel output operating mode shall be displayed to the right of the output indicators by 4 multicolor LEDs. These indicators illustrate if Channels 1 and 2 and 3 and 4 are low impedance 4Ω or 8Ω individually configured or combined making a 70V/100V output. Amplifier operation mode settings shall be completed using the internal DSP GUI.

On the rear panel, the amplifier shall have an IEC AC receptacle that operates from 110V - 120V & 220V - 240V and shall automatically sense the AC Mains voltage and change voltage settings. A removable AC Mains fuse shall be provided for protection.

The rear-mounted Input connectors for inputs 1 - 4 shall be individually removable 3-way 3.5mm Phoenix type connectors that accept balanced line input signals (+) (-) and (GND) pins and will support unbalanced signals by connecting the (-) and (GND) pins together. The amplifier configuration and I/O Routing shall be done in the GUI. Any Input shall be capable of being routed to any Output.

The rear-mounted Output connector shall be a screw terminal block type for connecting speakers to the amplifier. The recommended wire to use shall be Class 3 rated,14-gauge wire or lower for speaker wiring. Amplifier output channel configurations shall be done in the amplifier GUI. The amplifier shall be shipped with two speaker output terminal covers for safety. Included in the carton with the amplifier shall be eight (8) spade crimp terminals that accept 12-gauge wire and four (4) security cover screws (M3 x 8mm). Terminal block screws shall be M4. The amplifier shall be pre-configured at

the factory for two-channel 70.7V/100V mode.

The amplifier shall have one (1) rear mounted Accessory Card Slot to add accessory modules. Accessory modules shall make available 4 additional inputs (for a total of 8) that can be routed to any of the four output channels. Optional accessory cards shall include a 4-channel Dante™ Digital Audio Input Card and a 4-Channel Analog Mic/Line, Auxiliary Input Card.

The amplifier shall have a rear-mounted Ethernet connector to connect to a Local Area Network (LAN), computer, or router/switch using a standard RJ45 cable to access the amplifier's DSP and control settings.

When network enabled, the amplifier shall have a GUI home page with Input and Output active meters, Output Configuration indicators, with Tab selections to navigate to User PC Control page, Amplifier Setup page, Mobil Control page, IP Configuration page where I/O can be labeled, Update page for firmware upload, and About page. All four amplifier channels shall have an assortment of DSP tools with navigation icons to the following individual GUI pages: Amplifier Configuration, Mute, Link & Ports Assign, I/O Router Assign, Hi & Lo Pass Filters, 5-Band Parametric EQ, Output Level, Delay,

The amplifier shall have four (4) rear-mounted Control Ports to allow assigned/configured Remote Level or Mute functions to be activated by external contact closure relay or controlled by voltage. Each Control Port pin shall be assigned to one function such as Mute or Level, but not both. Control Port assignment shall be done in the GUI "Mute, Link, Port Assignment Page". The factory default assignments for the Amplifier Control Ports shall be as follows: C1 Controls CH 1/2 70V / 100V Output Remote Level, C2 Not Assigned, C3 Controls CH 3/ 4 70V / 100V Output Remote Level, C4 Not Assigned. The Control Ports shall provide +10V and GND connections for Remote Level controls using $10k\Omega$ Linear Taper pots.

The amplifier shall have Site Manager software to perform a variety of functions including locating DPA amplifiers' IP addresses; fault reporting, input & output status, standby status, and remote activation via a scheduler

The amplifier shall be an AtlasIED DPA602.