



DPA-102PM

Networkable 2-Channel Power Amplifier with DSP



Specifications

Power Output	50 Watts per Channel @ 8Ω 100 Watts per Channel @ 4Ω
Factory Ship Settings	Two CH 4Ω Front Panel Levels Active DSP Set to Flat & 0dB
THD	0.2% at Rated Output
Frequency Response:	-3dB 20Hz @ 20kHz (DSP Filters Engaged)
DSP Elements	Input Level, Output Level, Output Limiter, 5 Band Parametric EQ per channel, Hi & Lo Cut Filters, Delay 60mS per channel, Matrix mixer
GUI Control	Ethernet Base, On Board Web (No PC Software for Single Unit Monitoring or Configuration)
Audio Power Down (APD)	On Trigger Threshold: 5mV Off, No Signal Sense, 30min
Level Control (Assignable)	Front Panel (Removable Knobs and Security Cover) GUI Control (PC, iPhone, Android, Password Protected) Remote Wired (10K Ohm Based, Separate Return per CH)
Protection Circuits	Thermal, Short, Limiter
Signal to Noise Ratio:	-100dB Below Rated Output (A-weighted)
Input Sensitivity:	Unbalanced - 750mV RCA Balanced - 750mV Euro Block PHX Type 3.5mm
Input Impedance:	Unbalanced: 10kΩ Balanced: 20kΩ
Output Terminals	Euro Block PHX Type 5.08mm
Power Required:	100VAC – 240VAC, 50/60Hz
Power Consumption:	- Standby Mode (Ethernet Active): 1 Watts, 22mA, 3.14 BTU - Idle Active: 12.5 Watts, 173mA, 41 BTU - Average Power: 4Ω (Audio Signal, 1/3 Power), 116 Watts, 395 BTU - Max Power: 4Ω (Audio Signal, Peak), 384 Watts, 4.9A, 1310 BTU
Height:	1.75" (45mm)
Width:	8.5" (216mm)
Depth:	13.5" (343mm)
Weight:	4.9lbs (2.2Kg) Unit Only
Optional Accessories	- DPA IP Discovery Software - DPA Global Monitoring Software - AA-YSUM: Passive Summing of Stereo Signal - WPD-VC10K: Potentiometer on Wall Plate for Remote Level Control - Rack Mount Kit: PA702-RMK

Features

- 2 x 100 Watt Class-D Amplifier Technology
- DSP Signal Processing, Fully Configurable
- Ethernet Network Connectivity
- iOS App & Web Browser Control
- 1W Standby, Meets Energy Star Standard
- Remote Monitoring of Status & Levels
- Network Auto-Discovery Software
- Pole Mounted Projector Featuring Through Chassis or Side Pole Mount
- Audio Sense Turn-On/Off
- Balanced and Unbalanced Inputs
- Assignable Level Controls (Security Protected)

Applications

The Atlas Sound DPA-102PM two channel compact amplifier features a combination of flexibility, performance and control to provide high value features for applications that require more than just great sound. The web enabled DPA-102PM has an assortment of DSP tools including level controls, EQ's, limiters, high & low pass filters, delays and summing to provide flexibility for a range of applications.

To make the DPA-102PM a "game changer" the advantages of on board DSP are combined with an integral web server allowing remote control of DSP functions and levels as well as output level and status monitoring of any DPA amplifier on the network.

The DPA-102PM is "ready to use, out of the box" with no configuration or network connectivity required and is a cost effective solution even in applications that do not require processing or network control.

Architect & Engineer Specifications

The product shall be a one channel 1RU half rack power amplifier and provide 100 Watts into a 4 Ω load. The unit shall utilize rail tracking Class D topology and switch mode power supply technology. The front panel shall have Green signal presence LEDs and Red limit status LEDs along with master level controls. The front panel shall have mains power switch with power Blue "ON" and flashing "Standby" status LED indicator. The rear panel shall have balanced inputs with removable phoenix style connectors and an input impedance of 20K Ω . The unit shall have unbalanced RCA input connections with input impedance of 10K Ω . Output terminations are made via phoenix style connectors. The unit shall have an audio sense turn-on from standby mode, with threshold of 5mV. The unit shall draw 1 Watt in standby mode. The unit shall incorporate web enabled DSP features including EQ, hi & lo Cut filters, level control / assignment and limiter settings. 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 DPA-102PM.



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