



HIGH POWER DUAL CHANNEL AMP

COMMERCIAL AUDIO AMPLIFIER WITH SELECTABLE SUBWOOFER OPTION, AND INDEPENDENT INTERNAL POWER SUPPLIES



- Excellent Channel Separation and Low Distortion
- Dual Channels Public Address Power Amplifier
- Ch B with Selectable Sub-Woofer Option
- Independent Power Supplies
- Soft Clip Limiter Protection
- Dual-Speed, High Efficiency Fan Cooling
- Stepped Attenuators Mounted on Rear for Security
- Balanced Inputs on XLR Connectors
- Loop-Through Feature on Male XLRs, One per Channel Input
- Short-Circuit, Temperature, and DC Offset Protection
- 70 V, 100 V, 8 Ω and 16 Ω Outputs Mounted on Binding Posts
- Power-Up Muting

General Description:

The OWI HP-AMP-2400 is a high power dual channel amplifier with selectable subwoofer option, and independent internal power supplies, providing excellent channel separation and low distortion. Rear mounted stepped attenuators provide 8-16 Ω /70V/100V setting repeatability and ease of setup. Front panel mounted indicators provide status of signal present, limiter operation, and protection circuit operation.

Applications:

The OWI HP-AMP-2400 is the perfect choice for distributed paging/BGM systems, foreground music systems, and distributed sound masking applications. Also perfect for night clubs, theaters, portable sound systems, and anywhere clean high-fidelity audio amplification is needed.



HP-AMP-2400 Backside



HIGH POWER DUAL CHANNEL AMP

COMMERCIAL AUDIO AMPLIFIER WITH SELECTABLE SUBWOOFER OPTION, AND INDEPENDENT INTERNAL POWER SUPPLIES, PROVIDING EXCELLENT CHANNEL SEPARATION AND LOW DISTORTION



HP-AMP-2400 Front



HP-AMP-2400 Backside

Specifications:

MODEL NUMBER	HP-AMP-2400
Description	High Power Dual Channel Amplifier
Power Outputs	
8 Ω, 1 kHz, 0.1% THD	350 Watts x 2
16 Ω, 1 kHz, 0.1% THD	200 Watts x 2
70 V	400 Watts x 2 @ 70 Volts
100 V	550 Watts x 2 @ 100 Volts
Frequency Response	50 Hz – 16 kHz (±3dB)
THD+N	
8 Ω, 1 kHz, 350 Watts per Channel	< .05%
Sensitivity	
Rated Output into 8 Ω	1.25 V
Voltage Gain	32 dB
Input Impedance	
Balanced	20 kΩ
Unbalanced	10 kΩ
Damping Factor	
8 Ω Output, 10 Vrms	>200 dB
S/N Ratio	
8 Ω per Channel @ 350 Watts	>100 dB
Protection Circuits	
Output Offset Voltage Protection	Yes
Heat Sink Overheat Protection	Yes
Transformer Overheat Protection	Yes
Load Shorting Protection	Yes
Power On/Off Protection	Yes
Soft Clip Limiters	Yes
Controls	
Ch 1 / Ch 2 Gain	30 Step
Power Switch On/Off	Yes
8-16 Ω / 70 V / 100 V Selector	Yes
Full Frequency / Subwoofer Selector	Yes
Cooling	
Dual Speed Fan, Temp. Controlled	Yes
Indicator LEDs	Power, Protect, Signal, Limit
Power Consumption	
Idle	0.41 A, 38 Watts, 130 BTU
Average	2.4 A, 291 Watts, 992 BTU
Max	7.3 A, 876 Watts, 2989 BTU
Note: Average Power is 1/3 rating, 25% head room, and 50% music signal duty cycle	
Dimensions (H x W x D)	3.9" (100 mm) x 19" (483 mm) x 11.8" (300 mm)

Architect & Engineer Specifications:

The amplifier shall be OWI HP-AMP-2400 Commercial Audio Amplifier. The power amplifier shall have two channels 400 Watts x 2 at 70 Volts; and 550 Watts x 2 at 100 Volts. At 8Ω, 1kHz, it shall deliver 350 Watts per channel. At 16Ω, 1kHz, it shall deliver 200 Watts per channel. The power amplifier must have a subwoofer selector switch with 350 Watts minimum at 8 Ω. The amplifier shall have internal circuits to protect itself from output short circuits and thermal overload and will protect attached loudspeakers from amplifier failure and DC voltages. A variable speed fan shall provide heat sink cooling. Front panel indicators to include signal present, limiter, and protection LEDs. Rear mounted stepped attenuators to provide repeatability of 8-16Ω/70V/100V settings. Input terminations shall be balanced on XLR female connectors. Loudspeaker outputs shall be of the binding post. A switch on the rear panel to provide selection of full-frequency or subwoofer of channel B. Dimensions shall be 3.9" x 19" x 11.8" (100 mm x 483 mm x 300 mm).

Also Available from OWI: High Performance Power Amp



HP-AMP-250BT – High Performance Power Amplifier with Built-In MP3 Player and Internal Circuit Protector for Loudspeakers



OWI Incorporated
17141 Kingsview Ave.,
Carson, CA 90746 U.S.A.
ph.: 310.515.1900
toll free: 800.638.1694
fax: 310.515.1606
email: info@owi-inc.com



www.owi-inc.com

Specification sheets available for download at owi-inc.com



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