

Model 7300 Stereo Power Amplifier

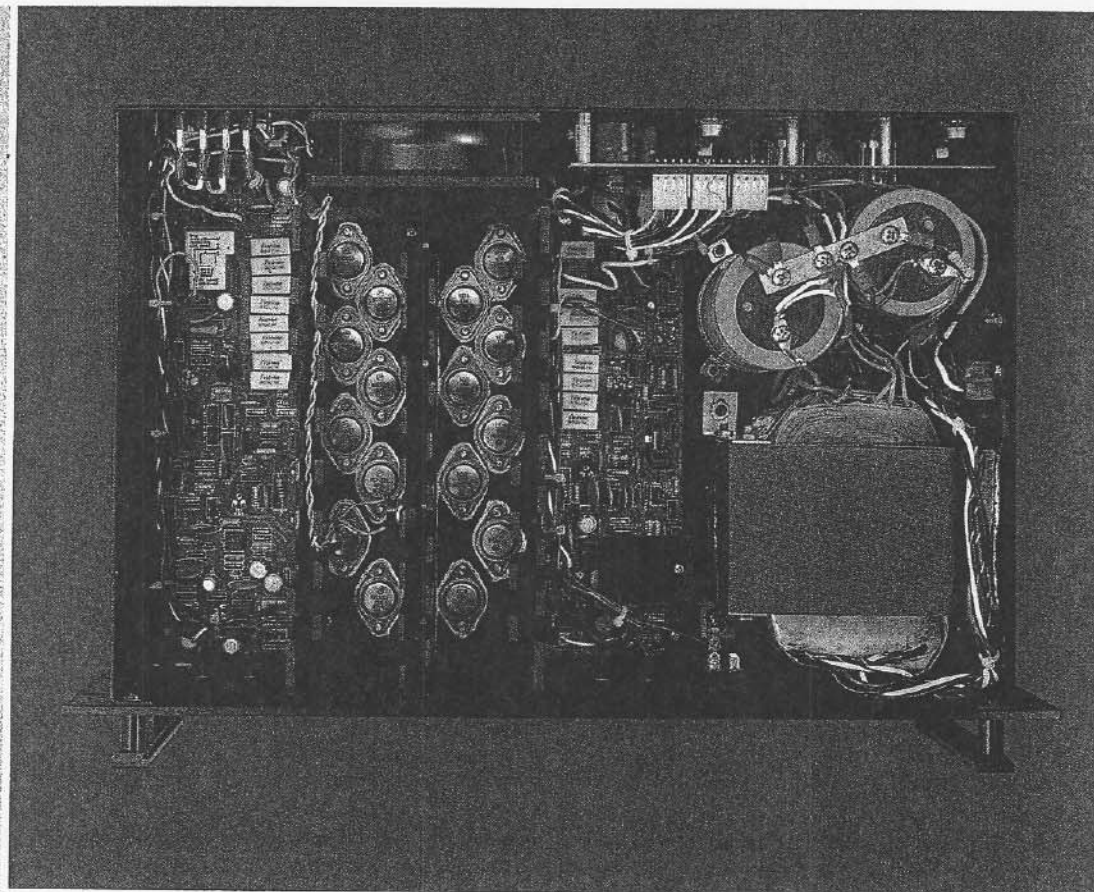
One for the road.

The road you travel as a musician is long and tough, with many a collision along the way. You play until the club closes. Toss your gear into a road case. Heave the case into the van, and take off for tomorrow's gig. Clearly no assignment for fragile, temperamental equipment. But it's made to order for a power amplifier like the Electro-Voice 7300. One that's as tough as you are—yet equipped with all the features you need.

In other words, it's exactly what you've come to expect from EV.

From its heavy-duty steel chassis to its sixteen metal output transistors and massive heat sinks, the 7300 is Electro-Voice quality all the way.

Five decades of EV experience and tradition stand behind every 7300: your assurance that, year after year, and show after show, it will deliver when called upon.



Sonic excellence to match its durability!

Rugged as it is, the 7300 has far more to recommend it than mere road-worthiness. Beneath a tough exterior is a sonically superb amplifier you can compare with confidence to any of its peers. It utilizes a 2134 OP-amp front end with audio characteristics that make it a joy to own and use. The 2134 was selected for its high slew rate, wide bandwidth, low distortion, and low-noise performance.

An amp that keeps its cool

The reliability needed for long hours of continuous use requires cool operation, and the 7300 meets the test admirably. Its sixteen metal output transistors have a total device power dissipation of 4,000 watts; and its dual-speed fan and oversize heat sinks do their part to keep you "alive and playing" through long performances.

Independent channel protection

When you're working with your music, the last thing you need to worry about is your equipment.

So EV engineers give you, in the 7300, complete protection in each channel against:

- RF Interference
- Shorted Loads
- Undue Thermal Stress
- Excessive Output Voltage

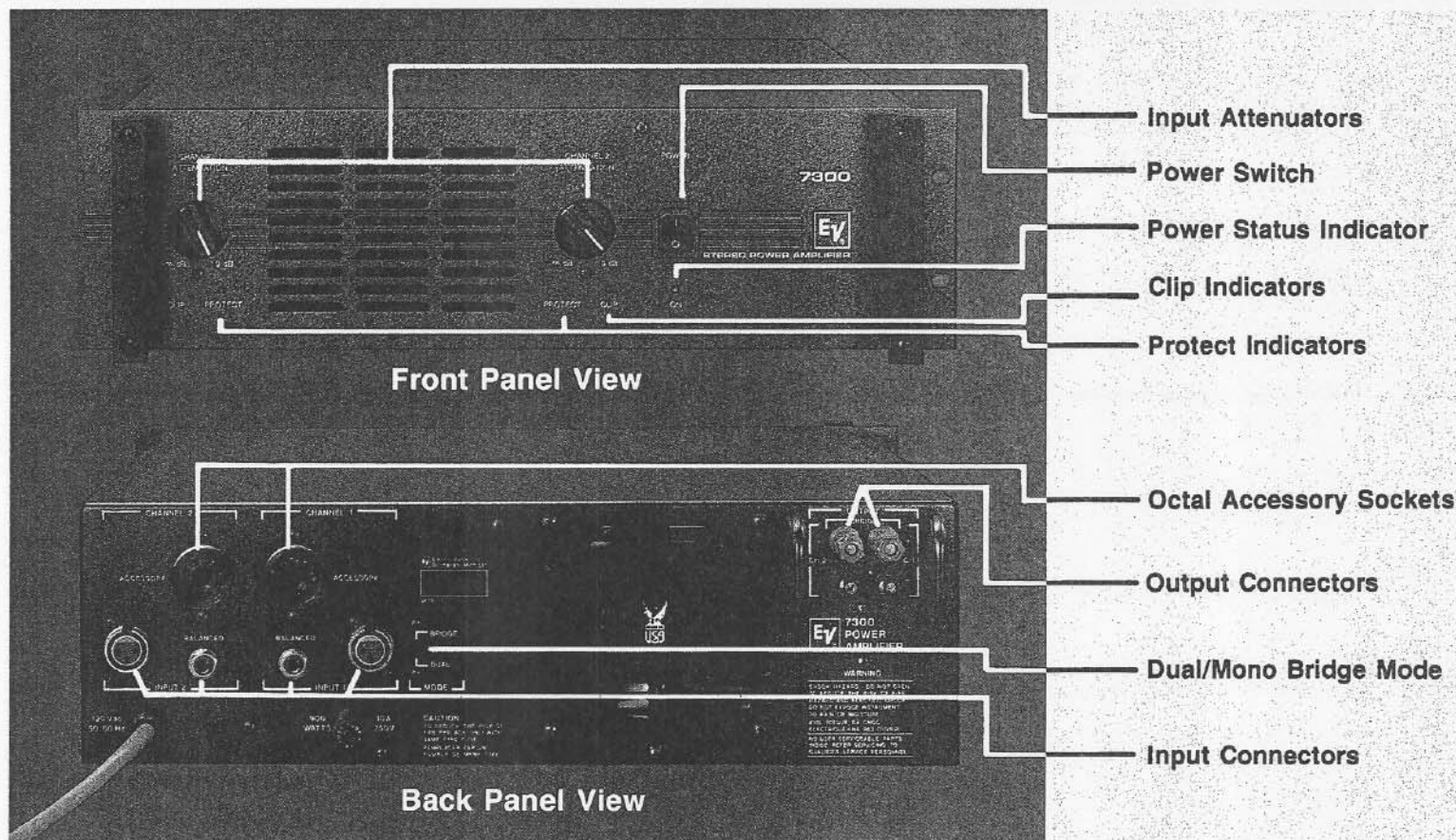
The amplifier, as well as its connected speaker systems, is protected against damage from on/off transients, subsonic signals, low ac line voltage, and dc voltage.

High power-handling capability

The EV 7300 puts you in command of 300 continuous watts, on each channel, into 4 ohms and 200 watts into 8 ohms, over the full bandwidth. In the mono bridge mode—activated by an easy-access mode switch on the back—the amplifier will deliver 600 watts into 8 ohms.

LED status, CLIP and PROTECT indicators

In addition to its standard amplifier ON status indicator, the EV 7300 has two LED indicators on each channel. A red PROTECT LED lights when a problem is detected. Should this occur, an output relay instantly and automatically disconnects the load from the channel,



eliminating any chance of damage to the amplifier or associated speakers. And a red CLIP indicator is activated when the input signal overdrives the amplifier to cause clipping.

Balanced/unbalanced compatibility

The EV 7300 features balanced XLR connectors and balanced ring-tip-sleeve phone jacks. When a standard unbalanced phone jack is used, the input becomes unbalanced, providing complete compatibility with all professional sound equipment.

Extra protection for speaker outputs

The five-way, heavy-duty binding posts of the EV 7300 are protected, on either side, by sturdy steel brackets to prevent damage to binding posts when the amplifier is set on its back panel.

Easily "biampable" crossover module with Linkwitz-Riley filter

The 7300 has on-board biamp capability through use of an APX crossover module available, as an option, with 24 preset, selectable frequencies, from 50 Hz to 10 kHz. Attachment is made through an octal plug-in provision which has proven itself as a reliable, cost-effective alternative to conventional rack-mount networks.

The APX is flexible and easy to operate. Simply select the desired frequency, plug the crossover module into the octal sockets on the rear, and your system is ready for biamp operation.

The fourth-order Linkwitz-Riley 24-dB-per-octave filter provides smooth, seamless transition between drivers while maintaining phase between the high-pass and low-pass outputs.

The sharp 24-dB-per-octave slope minimizes the possibility of delivering out-of-band signals to the wrong drivers. This provision reduces distortion while providing an extra measure of protection for the drivers.



Crossover Specifications

Frequency Response: 20 Hz to 20 kHz, ± 0.5 dB
Maximum Output Level: +18 dBu
Maximum Input Level: +18 dBu

Noise: 20 Hz to 20 kHz, -85 dBu

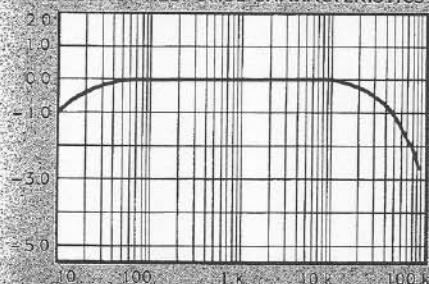
Distortion: Less than 0.1% at +8 dBu

APX Crossover Frequencies: 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6450, 8000, 10,000 Hz

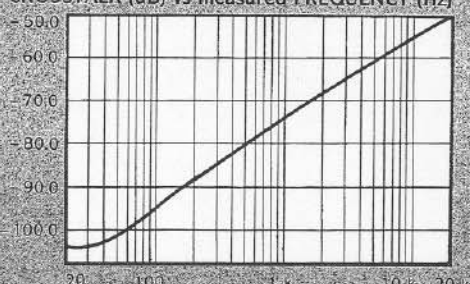
Specifications

Power Output Level, 20 Hz-20, Stereo:	300 watts into 4 ohms at 0.10% THD 200 watts into 8 ohms at 0.05% THD 600 watts into 8 ohms at 0.10% THD 400 watts into 16 ohms at 0.05% THD
Bridged Mono:	
Frequency Response:	20 Hz-20 kHz \pm 1 dB
Dynamic Headroom at 1 kHz, Stereo:	1.25 dB, 4-ohm load 1.0 dB, 8-ohm load
Bridged Mono:	1.25 dB, 8-ohm load 1.0 dB, 16-ohm load
Distortion (THD at rated output power 20 Hz-20 kHz), Stereo:	0.10%, 4-ohm load 0.01%, 8-ohm load
Damping Factor at 8 Ohms:	200
Noise (A weighted, any mode):	100 dB below full rated output
Input Sensitivity:	0.902 V rms for rated power at 8 ohms
Input Impedance, Per Channel (20 Hz-20 kHz), Balanced:	30 kilohms
Unbalanced:	15 kilohms
Amplifier Protection:	Excessive output voltage Shorted loads Excessive phase shift RF interference Over temperature
Load Protection:	On/off transients dc fault Subsonic signals Low ac line voltage
Output Circuit Type:	True complimentary
Output Devices Total:	16 250-watt, 250-V/16-A TO-3 transistors
Slew Rate (at rated output power, stereo, 8 ohms):	30 V/ μ sec
Power Requirements:	100, 120, 200, 220 or 240 Vac, 50/60 Hz, 900 watts (120 Vac)
Connections, Input (actively balanced):	Two 1/4" ring-tip-sleeve phone jacks Two female XLR-type connectors
Accessory Output:	Two octal sockets Two five-way binding posts
Optional Accessory:	APX 24-frequency crossover module
Dimensions, Height:	13.3 cm (5.25 in.)
Width:	48.3 cm (19 in.)
Depth:	32.4 cm (12.75 in.)
Weight:	17.7 kg (39 lb)
Shipping Weight:	21.8 kg (48 lb)

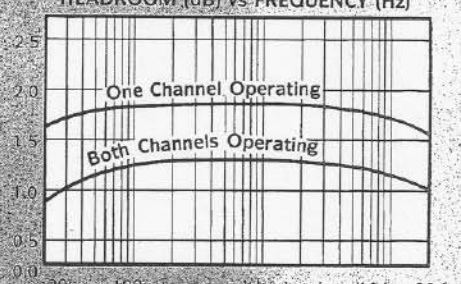
FREQUENCY RESPONSE CHARACTERISTICS



CROSSTALK (dB) vs measured FREQUENCY (Hz)



HEADROOM (dB) vs FREQUENCY (Hz)



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Electro-Voice engineering continually improves existing products, as well as creating new ones. Thus specifications given in this brochure are subject to change without notice. For complete specifications consult the appropriate Engineering Data Sheet.

Cold-Blooded Power



Heat is the number one contributing factor in amplifier failure.

But the 7300 stereo power amplifier keeps cool under the most strenuous conditions.

Its 16 metal output transistors have a total device power dissipation of 4,000 watts . . . and its dual-speed fan and oversize heat sinks insure hours of continuous performing capability.

For power, it's conservatively rated at 200 watts per channel 0.05% THD into 8 ohms and 300 watts into 4 ohms.

In the bridged mono mode, the 7300 can cruise in excess of 600 watts into 8 ohms.

Plus, it's loaded with features, including complete protection circuitry. And it's easily biampable . . . using an optional APX 4th-order Linkwitz-Riley filter network with 24 selectable frequencies.

The 7300 is constructed with a sturdy aluminum-steel chassis to survive those bumps and bangs on the road. And it's UL-approved.

Give your local EV dealer a call today. And check out the coolest amp in the business.

For more information call or write
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