

TAD

Evolution Series

TAD

TECHNICAL AUDIO DEVICES LABORATORIES, INC.

POWER AMPLIFIER
M2500TX

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M2500TX



TAD-M2500TX-S



Rear panel

TAD-M2500TX Specifications

■ Power output: 550W at 1kHz, 4Ω ■ Rated Distortion: Less than 0.05% at 1kHz, 4Ω ■ Signal-to-Noise Ratio: 112 dB or higher ■ Frequency Response: 10 Hz to 50 kHz, +0/-3 dB ■ Gain: 29.5 dB ■ Input Terminal (Sensitivity/Impedance): 1.5 V/100 kΩ (balanced input), 0.75 V/50 kΩ (unbalanced input) ■ Power requirements: AC 120 V, 60 Hz (United States), AC 220 V to 230 V, 50 Hz/60 Hz (Europe/Asia) ■ Power consumption: 250 W ■ Standby Power Consumption: 0.5 W ■ Dimensions: 440 mm (W) x 170 mm (H) x 467 mm (D) [17-21/64 in. (W) x 6-11/16 in. (H) x 18-25/64 in. (D)] ■ Weight: 42.0 kg (92.5 lbs)

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Note: Specifications, design and screenshots subject to modification without notice.

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*Heart-thumping, soul-stirring
audio experience like
never before*



Perfect symmetry throughout circuitry and layout

The ultimate symmetry and balance incorporated into the TAD-M2500TX' s circuitry and layout drives a diaphragm of a speaker with utmost precision. Its BTL (bridge-tied load) design connects two physically and electrically separate amplifiers in a balanced configuration for the left and right channels in the amplification circuit, which produces an incredible 550 watts of power per channel, from input through to output stages. Furthermore, separate power supply circuits and transformers drive the left and right channels and ensure that positive and negative output signals are perfectly symmetrical.



Exceptionally high purity and efficiency

The internal coil of TAD-M2500TX' s high-capacity toroidal power transformers is directly connected to the power supply circuit. The shape of the cross-section of the transformer core has been redesigned to circular to achieve tighter contact between the core and coils, minimizing unwanted leakage magnetic flux and vibrations. The result is a power supply with greater purity. Extremely low energy-conversion loss, thanks to the strong coupling between the primary and secondary winding of the transformer, and low load fluctuations resulting from parallel winding, combined with TAD' s proprietary 33,000 μF electrolytic capacitors, provide the analog power supply with enhanced driving capability, even under abrupt load fluctuations, and outstanding high-speed responsiveness.



Overwhelming responsiveness and pure amplification

The combination of an analog power supply circuit featuring twin high-capacity toroidal power transformers and electrolytic capacitors and a Class-D output stage provides the basis for a pure amplification stage and an overwhelmingly high-speed and powerful response. Power MOSFET devices with ultra-low on-resistance in leadless packages enable signals with sharp rising edges. The highly efficient Class-D output stage, which generates minimum heat and eliminates the need for conventional heat sinks, delivers an astonishing 550 watts of power per channel.

Meticulous vibration-control design for greater stability

TAD-M2500TX' s chassis is machined from an 90 kg solid block of aluminum. Its heavy and joint-free design virtually eliminates an adverse effect of external vibrations and helps stabilize the ground potential to further increase the purity of music signals delivered to speakers. The immense body of the TAD-M2500TX provides both exceptional sturdiness and ultra-high internal-loss characteristics, both contributing to its superb sound quality. The supporting feet at the bottom with a spike structure keep external vibrations from traveling through the feet.

