

X-500B & X-1000B

500 Watt & 1,000 Watt Digital IBOC Ready Solid State AM Transmitters



X 1000B

Made in USA

Built with 600 Watt RF modules capable of 150% modulation, the X-500B and X-1000B can bring that major market sound to your radio station. Engineered with the latest technological innovations, they offers high reliability, built-in redundancy and are HD Radio® ready.

Best of all, our customers tell us that these workhorses pay for themselves with savings in electricity and maintenance costs over an older transmitter. As a bonus they get exceptional reliability and that major market sound for free.

Features

- +90% RF PA efficiency
- Optimized multiphase modulator (flat group delay, low source impedance)
- Capable of +150% positive modulation
- Hot pluggable modules (X1000B)
- Designed to easily accept the new digital IBOC signal
- Three preset power levels and full remote control capability
- Fully redundant RF, modulator, cooling system and power supplies



X500B & X-1000B

Technical Specifications

Electrical Specifications

Power Output	1KW (rated), 1,200 (capable).
X-1000B	500 Watt Rated, 600 (capable).
X-500B	Continuously adjustable Three power level presets
Frequency Range	530kHz to 1700kHz
Output Impedance	50 ohms unbalanced, Type PL259
Modulator Type	Pulse Duration Modulation (PDM)
Audio Frequency Response	+/- 0.5db, 30-10,000Hz
Square Wave Overshoot	2% at 400 Hz
Square Wave Tilt	3% or less at 40Hz
Audio Harmonic Distortion	Better than 1% (THD) at 95% modulation 30-10,000Hz (reduced antenna bandwidth may degrade specifications)
Audio Intermod	1% or less at 1KW 60/7000Hz 4:1ratio SMPTE Standards Distortion at 85% modulation
Modulation Capability	150%(rated) 165% (capable)
Carrier Shift	Not to exceed 1%
RF Harmonics	73dB or more below 1KW
Spurious Outputs:	73 dB below 1KW
Noise and Hum	60db or more below 100% modulation at 1KW
Frequency Stability	+/-5 ppm
Audio Input	600 ohms active balanced +10dBm nominal
Power Input:	190-260 VAC, single phase
Power Consumption:	
X-1000B	1400 Watts at 1KW 0% modulation 1750 Watts at 1KW, 100% continuous sine wave modulation
X-500B	600 Watts at 500W 0% Modulation 900 Watts at 500W 100% continuous sine wave modulation
Remote control/monitor	DB25 Connector

Mechanical and Environmental Specifications

Ambient Temperature	-10°C to 50°C
Humidity Range	95% max, non-condensing
Altitude	8,000 feet
Size	12.25" high x 19" wide x 20" deep
Weight	X-1000B 132 lbs//X-500B 98lbs



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