



TX1000 AM Transmitter

We Make Radio Happen

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GENERAL

Transmitter Type

Medium wave, 100% solid state

Configuration

Two 500 W RF power modules each including eight broadband RF amplifiers and four modulators

RF Output Power

Rated: 1,000 W

Range: 10 W to 1,100 W

Three preset levels, selected locally or remotely

RF Output Connection

Type N

RF Output Impedance

50 ohms, unbalanced

Efficiency

85%

Frequency Range

530 KHz to 1,700 KHz (supplied to one frequency as ordered)

Frequency Stability

Internal: +2 ppm over temperature range
External: GPS 10 Mhz dependent on external source

Modulation Capability

130% positive peak modulation at rated power

Incidental Quadrature Modulation

36 dB below 95% modulation at 1,000 Hz

Spurious and Harmonic

Meets or exceeds FCC, IC, and ITU requirements

AC INPUT

Voltage

100 - 277 V ac, 1 phase, 50 Hz or 60 Hz

Power Consumption

1,430 W maximum at 1 KW, 0% modulation
2,140 W maximum at 1 KW, 100% modulation

ENVIRONMENTAL

Temperature Range

0°C to + 50°C

Derate 3°C per 500 m above sea level

(2°C per 1,000 ft)

Humidity Range

0% to 95% non-condensing

Altitude

0 m to 4,000 m (0ft to 13,000 ft)

PHYSICAL

Dimensions

14 cm H x 48 cm W x 49 cm D

(5.25" H x 19" W x 19.2" D)

Weight

12 kg (26 lbs)

AUDIO PERFORMANCE

Frequency Response

+0.2 dB/-0.8 dB, 30 Hz to 10,000 Hz.

Total Harmonic Distortion

Better than 0.8% (THD), 30 Hz to 10,000 Hz at 95% modulation. Referenced at 1,000 W.

Better than 1.2% (THD), 30 Hz to 10,000 Hz at 95% modulation. Referenced at 100W.

Reduced antenna bandwidth may degrade specification.

Carrier

Shift 0.5% or less

Hum and Noise

65 dB or more below 100% modulation

DIGITAL COMPATIBILITY

Frequency Response

+0.2 dB/-1.5 dB, 30 Hz to 15,000 Hz. Ref at 1 kHz

Total Harmonic Distortion

Better than 1% (THD), 30 Hz to 15,000 Hz at 95% modulation. Referenced at 1 KHz

Incidental Quadrature Modulation

35 dB or better (typical), 30 Hz to 15,000 Hz

Notes:

Specifications established at rated power unless otherwise noted. All measurements at 50 ohms resistive load; AC input voltage at nominal level.

