

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

Six preset levels, selected locally or remotely

RF Output Connection

Type N

RF Output Impedance

50 ohms, unbalanced

Efficiency

75%

Frequency Range

531 kHz to 1,690 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

125% 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

170 - 270 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 (0 ft to 13,000 ft)

PHYSICAL

Dimensions

58 cm H x 48 cm W x 51 cm D

(23" H x 19" W x 20" D)

Weight

23 kg (50 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 100 W.

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.

Referenced 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.

