

GENERAL

Transmitter Type

FM Broadcast, 100% solid state

Configuration

16 hot swappable RF power modules

32 switching power supplies (2 per RF power module)

Power supplies are hot-swappable

1 low voltage power supply (same as RF power module power supply)

Integrated exciter

Optional

Main/standby exciter

Redundant low voltage power supplies

RF Output Connection

4-1/16 inch, female (standard)

3-1/8 inch EIA, female (optional)

RF Output Impedance

50 ohms unbalanced

RF Load VSWR

1.5:1 with automatic power reduction into higher VSWR

Protected from open and short circuits at all phase angles

RF Frequency Range

87.5 MHz to 108 MHz

No tuning required

Frequency Stability

± 200 Hz

Turn Around Loss

Better than 20 dB

Spurious and Harmonic

Meets or exceeds all FCC/IC/CE requirements

AC INPUT

Voltage

180 V ac to 265 V ac, 3-ph (208 Vac nominal)

312 V ac to 459 V ac, 3-ph (380 Vac nominal)

180 V ac to 265 V ac, 1-ph (240 Vac nominal)

Power Consumption

Analog mode:

55.6 kW at 40.0 kW RF output (56.7 kVA)

Power Factor

Unity Power Factor Corrected (typically 0.98)

Power Line Harmonics

IEEE 519-1992

AUDIO PERFORMANCE

Asynchronous AM S/N Ratio

Better than 60 dB below reference carrier with 100% amplitude modulation using 75 µs de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio

Better than 50 dB below reference carrier with 100% amplitude modulation using 75 µs de-emphasis

ENVIRONMENTAL

Temperature Range

0°C to +50°C

Derate 3°C per 500 m above sea level

(2°C per 1000 ft)

Humidity Range

0% to 95% non-condensing

Altitude

0 m to 3000 m (0 ft to 10,000 ft)

Cooling Air Requirements

5437 m³/hr (3200 cfm)

PHYSICAL

Dimensions

Open ventilation configuration:

184.2 cm H x 165.1 cm W x 81.3 cm D

(72.5" H x 66" W x 32" D)

Note: total depth can be reduced to 76.2 cm (30") with front and rear filter panels and front hinged panel removed.

Closed ventilation configuration - consult factory

Weight

744 kg (1640 lbs)



RF Output Power and Efficiency

	Analog Mode (max/rated)
Analog TPO (kW)	44 / 40
Typical Efficiency	72%

Notes:

Specifications established at rated power unless otherwise noted.

All measurements into 50 ohm resistive load.

AC input voltage at nominal level.