

GENERAL

Transmitter Type

FM Broadcast, 100% solid state

Configuration

2 hot swappable RF power modules

4 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 supply

RF Output Connection

1-5/8 inch EIA, female (standard)

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

7/8 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

Turn Around Loss

Better than 20 dB

Spurious and Harmonic

Meets or exceeds all FCC/IC/CE requirements

SPECIFICATIONS SUBJECT TO CHANGE
WITHOUT NOTICE

AC INPUT

Voltage

180 V ac to 264 V ac, 3 phase, 50/60 Hz

312 V ac to 457 V ac, 3 phase, 50/60 Hz

180 V ac to 264 V ac, 1 phase, 50/60 Hz

Power Consumption

Analog mode:

5210 W at 3750 W RF output (5310 VA)

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 μ s de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio

Better than 50 dB below reference carrier with 100% amplitude modulation using 75 μ s 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

680+ m³/hr (400 cfm)

PHYSICAL

Dimensions

Open ventilation configuration:

184.2 cm H x 58.4 cm W x 76.2 cm D
(72.5" H x 23" W x 30" D)

Note: total depth 81.3 cm (32") with front hinged panel and air filters installed

Closed ventilation configuration:
consult factory

Weight

151 kg (333 lbs)



RF Output Power and Efficiency

Analog Mode (max/rated)

Analog TPO (kW) ¹	4.13 / 3.75
Typical Efficiency	71%

Notes:

Specifications established at rated power unless otherwise noted.

All measurements into 50 ohm resistive load.
AC input voltage at nominal level.