

GENERAL

Transmitter Type

FM Broadcast, 100% solid state

Configuration

12 hot swappable RF power modules

24 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 264 V ac, 3 phase, 50/60 Hz (standard)

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

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

Power Consumption

Analog mode:

45.8 kW at 33.0 kW RF output (46.8 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

4163 m³/hr (2450 cfm)

PHYSICAL

Dimensions

Open ventilation configuration:

184.2 cm H x 129.5 cm W x 76.2 cm D

(72.5" H x 51" 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

560 kg (1235 lbs)



RF Output Power and Efficiency

Analog Mode
(max/rated)

Analog TPO (kW)

33 / 30

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.