

## GENERAL

### Transmitter Type

FM Broadcast, 100% solid state

### Configuration

8 hot swappable RF power modules

16 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

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

### 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:

27.8 kW at 20.0 kW RF output (28.3 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

2888 m<sup>3</sup>/hr (1700 cfm)

## PHYSICAL

### Dimensions

Open ventilation configuration:

184.2 cm H x 91.4 cm W x 76.2 cm D

(72.5" H x 36" 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

376 kg (830 lbs)



### RF Output Power and Efficiency

	Analog Mode (max/rated)
Analog TPO (kW)	22 / 20
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.