



## GENERAL

### Transmitter Type

FM Broadcast, 100% solid state

### Configuration

Four power amplifiers and one switching power supply

### RF Output Power

30 W to 1,400 W into a 1.2 VSWR  
30 W to 1,250 W into a 1.5 VSWR

### RF Output Connection

7/16" DIN, female  
(Type 'N' and 7/8 inch EIA available)

### RF Output Impedance

50 ohms unbalanced

### Efficiency

60% typical at 1,250 W

### RF Load VSWR

1.5:1 - 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 5 dB

### Excitation

FM Exciter capable of 20 W

### Spurious and Harmonic

Meets or exceeds all FCC/IC requirements

## AC INPUT

### Voltage

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

### Power Consumption

2.08 kW at 1.25 kW RF output (2.10 kVA)

### Power Factor

Unity Power Factor Corrected (typically 0.99)

### 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  $\mu$ s de-emphasis (no FM modulation present)

### Synchronous AM S/N Ratio

Better than 50 dB below reference carrier with 100% amplitude modulation 75  $\mu$ s de-emphasis

## 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 3,000 m (0 ft to 10,000 ft)

### Cooling Air Requirements

105m<sup>3</sup>/hr (62 cfm)

## PHYSICAL

### Dimensions

Open ventilation configuration:  
W = Standard 19" (48.3 cm) EIA rack  
[minimum opening of 17.5" (44.5 cm)]

H = 3 RU = 5.25" (13.3 cm)

D = Dependent upon connector type (not including handles)

Type 'N' = 21.5" (54.6 cm)

7/16 DIN = 21.5" (54.6 cm)

7/8 EIA = 22.4" (56.9 cm)

### Weight

16.8 kg (37 lbs)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.