

# Transmitter and Exciter

**FM50ES****VERSATILE**

The FM50ES is conveniently designed to be used as an Exciter, a stand-alone low power transmitter or, when combined with a receiver, can serve as a translator.

**BUILT TO LAST**

and robustly designed to withstand the harshest environments where ambient heat and humidity can render products ineffective.

Switch mode power supplies provide consistent performance even when there are frequent power outages and voltage fluctuations making stressful demands on products that depend on electric power.

## Service Features and Benefits

The Solid State FM50ES is a 5 to 55 Watts Stereo FM Broadcast transmitter. The FM50ES has built-in FSK ID (programmable from the front panel) for Translator use. Frequency stability is ensured by using PLL (phase locked loop) frequency synthesis from a highly stable crystal oscillator. The FM50ES includes over-temperature protection and foldback protection ensure reliable operation under any condition. Digital front panel metering indicates forward and reverse RF power; deviation; final output volts and amps. The frequency is easily set from the front panel. Meets or exceeds all FCC and CCIR standards.

**KEY FEATURES**

- Totally Solid-State
- Wide range input 88 to 264 VAC
- True proportional (VSWR) fold back
- Front panel metering
- Frequency agile from 87.7 to 108 MHz
- Compact Chassis
- Rack Mountable
- Designed and Manufactured in the U.S.A.

**ALSO INCLUDED****Technical Support****3 year warranty****Built-In FSK ID****Built-In Stereo Generator****Remote Control Interface****TECHNICAL SPECIFICATIONS:**

<b>Frequency Range:</b>	87.7—108 MHz
<b>Audio Input Impedance:</b>	600 Ohms
<b>Audio Input Level (composite):</b>	-10 dBm
<b>Audio Input R &amp; L Stereo Generator:</b>	-10 dBm
<b>Pre-emphasis:</b>	50 or 75 $\mu$ S
<b>Harmonic Distortion:</b>	<0.15% max.
<b>Signal to Noise Ratio:</b>	>80 dB RMS
<b>RF Output Impedance:</b>	50 Ohms
<b>Output Connector:</b>	N-Type Female
<b>Harmonic Attenuation:</b>	>-70 dB
<b>Power Requirements:</b>	88 to 264 VAC
<b>Frequency Response (composite):</b>	20 Hz—15(90) KHz
<b>RF Power Output:</b>	5 W - 55 W
<b>Dimensions and Packed Weight:</b>	19" x 12" by 2RU; 25 lbs