

Transmitters and Exciters

FM150ES, FM300ES, FM500ES, FM1000ES

Service Features and Benefits

The Solid State **ES Series** is available in 150 to 1,000 watts. Each unit has built-in FSK ID (programmable from the front panel) for **Translator** use.

Frequency stability is ensured by using Direct Digital Synthesizer (DDS) with a highly stable crystal oscillator reference.

The Series series incorporates a complete, yet simple control system designed for long, trouble-free service. 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.

Over-temperature protection and VSWR fold back protect the unit by automatically reducing power to a safe operating level.

Meets or exceeds all FCC standards. The FM150ES and FM300ES are FCC type certified for use on LPFM stations.

These transmitters are perfect for small markets as a main analog transmitter, as well as for LPFM applications and can also be used as an emergency or back up at the largest stations.

KEY FEATURES

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



TECHNICAL SPECIFICATIONS:

Frequency Range: 87.7—108 MHz
Audio Input Impedance: 600 Ohms
Audio Input Level (composite): -10 dBm
Audio Input R & L Stereo Generator: -10 dBm
Pre-emphasis: 75 (or 50 μ S to order)
Harmonic Distortion: <0.25% max.
Signal to Noise Ratio: >60 dB RMS
RF Output Impedance: 50 Ohms
Output Connector: N-Type Female
Harmonic Attenuation: >-70 dB
Power Requirements: 150-500W - 88 to 264 VAC
 1000W - 208-264 VAC
Frequency Response (composite): 20 Hz—15(90) KHz

RF Power Output:

FM150ES: 15 W - 165 W
 FM300ES: 30 W - 330 W
 FM500ES: 50 W - 550 W
 FM1000ES: 100W-1050W

Dimensions and Packed Weight:

FM150ES: 19" x 12" by 3RU; 25 lbs
 FM300ES: 19" x 12" by 3RU; 25 lbs
 FM500ES: 19" x 12" by 3RU; 32 lbs
 FM1000ES: 19" x 12" by 3RU; 32 lbs

VERSATILE

The ES Series 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.

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.

CONNECTORS

Output: N-Type Female
 Composite Input: BNC