

ES SERIES

TRANSMITTERS & EXCITERS

FM300ES
FM500ES
FM750ES
FM1200ES



CLEARLY SUPERIOR

FM BROADCAST TRANSMITTERS



The Solid State ES Series is available in 300 to 1,050 watts. Each unit has built-in FSK ID (programmable from the front panel) for Translator use.

Our Direct Digital Synthesis exciter produces superior sound that your listeners can't help but notice. No exciter, on the market today, performs better than the CW Broadcast Exciter.

The 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 FM300ES is FCC type certified for use on LPFM stations.

These transmitters are an excellent choice for FM translators seeking a main analog transmitter, or for any station that needs a lightweight, frequency agile, rugged and affordable backup transmitter.

Our LDMOS final RF devices are rugged, very reliable and up to 80% efficient.

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
- Optional Internal Webserver
- Designed and manufactured in the USA

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

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.

| MODEL SPECIFICATIONS | FM300ES | FM500ES | FM750ES | FM1200ES |
|----------------------|---------------|---------------|---------------|----------------|
| RF Power Output | 30 W - 330 W | 50 W - 550 W | 75 W - 800W | 50 W - 1200 W |
| Packed Weight | 20 | 22 | 22 | 24 |
| Dimensions | 19"x12"x 3U | 19"x12"x 3U | 19"x12"x 3U | 19"x16"x 3U |
| Power Requirements | 88 to 264 VAC | 88 to 264 VAC | 88 to 264 VAC | 180 to 264 VAC |

| COMMON SPECIFICATIONS | |
|------------------------------------|---|
| Frequency Range | 87.7-108 MHz |
| Audio Input Impedance | 600 Ohms |
| Audio Input Level (composite) | 1.25 volts RMS (3.50 volts peak-to-peak) for +/- 75 kHz deviation |
| Audio Input R & L Stereo Generator | -10 dBm |
| Pre-emphasis | 75 (or 50 μ S to order) |
| Harmonic Distortion | less than 0.1% |
| Signal to Noise Ratio | >70 dB RMS |
| RF Output Impedance | 50 Ohms |
| Output Connector | N-Type Female |
| Harmonic Attenuation | Meets or exceeds FCC requirements |
| Frequency Response (composite) | 20 Hz—15 (90) KHz |

MADE IN THE USA

CW Broadcast - Clearly superior 
www.cwbroadcast.com (509) 290-6652 info@cwbroadcast.com