

γ GAMMA High Efficiency Series FM Transmitters

DESIGNED FOR
QUICK
INSTALLATION and
COST SAVINGS

This is the perfect answer
to broadcasters' requests
for ease of maintenance.

ALSO INCLUDED

Built-in DDS for crystal clear
audio

Remote Control Interface

VSWR fold back

Harmonic Filter

Wide range, single phase,
power factor corrected PSUs

The **Gamma HE Series** is available in 1,500–10,000 Watt versions. These transmitters are 80% efficient and are quick and easy to install.

The Gamma Series achieves 80% efficiency with LDMOS based amplifiers. This results in a low cost of ownership. There is also additional cost savings resulting from the lower heat generation of these amplifiers. Less power is lost to generated heat and thus less power is required by HVAC systems to cool the transmitter building. The electric power savings in this new PTEK design is significant.

Also featuring an extremely compact footprint without sacrificing maintainability. 1000 watt power amplifier modules keep the GAMMA reliable and coupled with the hot pluggable power supplies ensure you stay on air—making maintenance a breeze.

The power supplies are independently operated, load sharing and removable from the front of the unit while it is operating.

The Gamma series is specifically designed to answer customer demand for a small, highly dependable transmitter that is economical to purchase, quick to get on air, and easy to maintain.



Key Features

- Low cost to purchase and operate (reduced power consumption)
- Direct Digital Synthesizer (DDS) based exciters
- High efficiency LDMOS technology power amplifiers
- Reduced cooling requirements
- Compact and lightweight for ease of installation
- AUDIO PERFORMANCE: Low distortion and high signal to noise
- REMOTE CONTROL: Contact closure with analog DC indication and RS232 all key parameters (IP option available with embedded web server)
- METERING: Digital front panel metering
- Compact and lightweight for ease of installation
- MAINTAINABILITY: Spacious design with all major components accessible by removing top cover
- 1,500 watt Hot Pluggable Switching Power Supplies
- SIZE: 4U, (7U for the 4kW), and 5kW-10kW come in 36" Rack



Made in America

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Technical Specifications

	Gamma 1500 150 – 1575 W	Gamma 2000 200 – 2100 W	Gamma 2500 250 – 2625 W	Gamma 3000 300 – 3150 W	Gamma 3500 350 – 3675 W	Gamma 4000 400 – 4200 W	Gamma 5000 500 – 5250 W	Gamma 6000 600 – 6300 W	Gamma 7500 750 – 7875 W	Gamma 10000 1000 – 10500 W
MODEL SPECIFICATIONS										
Exciter:	Built-in					FM150ES		FM150ES		
Output Connector:	7/8" Flange							1 5/8" Flange		
AC Single Phase Current Amps:	20	20	20	20	35	35	2 X 20	2 X 35	3 X 35	3 X 35
Weight (lbs):	60	60	60	60	60	60	250	300	350	400
Size:	4U	4U	4U	4U	4U	7U	36" Rack	36" Rack	36" Rack	36" Rack
COMMON SPECIFICATIONS										
Frequency Range:	87.7 – 108 MHz No Tuning									
Spurious and Harmonics	Meets or exceeds all FCC requirements									
Impedance:	50 Ohms									
Operational Mode:	Mono, Stereo, Multiplex									
Modulation Type:	F3E									
Overall Efficiency:	Typical RF efficiency 83.3% ; typical A/C efficiency 75%									
Cooling:	Forced Air Internal Fans									
Environmental	Inlet air temperature 0 °C to 30 °C									
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 Level R & L Stereo:	-10 dBm									
Pre-emphasis:	50 (or 75 µS to order)									
Harmonic Distortion:	>0.1%									
Signal to Noise Ratio:	>70 dB RMS									
Asynchronous AM S/N Ratio	Better than 60 dB									
AC Supply Voltage:	208 to 264 VAC									
Power Factor	Unity Power Factor Corrected (typically 0.98)									
Frequency Response (composite):	20 Hz – 90 KHz									
Front Panel LCD	FWD & REV Power, Voltage, Current, Frequency									
Remote Control	Full remote metering and control									