

PULSAR

2000 ♦ 2500 ♦ 3000

SOLID STATE PDM AM TRANSMITTERS



Features:

- ◆ A STRONGER SIGNAL WITH 133% POSITIVE PEAK CAPABILITY AT RATED POWER
- ◆ LOWER POWER COST
- ◆ REDUNDANT MODULAR DESIGN AVOIDS DOWN TIME
- ◆ OUTPUT TUNING & LOADING CONTROLS FOR PERFECT MATCH TO ANTENNA
- ◆ VSWR PROTECTION
- ◆ 3 TIMES FAULT RECYCLING
- ◆ 4 POWER LEVEL PRESETS
- ◆ SOLID STATE PDM DESIGN ACHIEVES BEST AUDIO QUALITY, BEST FREQUENCY RESPONSE AND LOWEST LEVELS OF DISTORTION
- ◆ FERRO RESONATED REDUNDANT POWER SUPPLIES

ENERGY-ONIX QUALITY

Energy-Onix **Pulsar** transmitters are the most ruggedly-constructed, solid state AM transmitters available today. Designed for survivability in the most severe environments, **Pulsar** transmitters offer the combination of long-term reliability, unsurpassed audio performance and price economy made famous by Energy-Onix.

UNIVERSAL PA DESIGN

The solid state design is the same at all power levels from 250 watts to 3000 watts. All **Pulsar** transmitters use identical broad band power amplifier modules. Amplifiers are fully interchangeable within any **Pulsar** series transmitter, regardless of power level. This permits a standardized spare complement to be located at one flagship station.

DESIGNED TO KEEP YOU "ON THE AIR"

The **Pulsar** series is designed to remain "On The Air" in the unlikely event of a PA failure. Thermostatic protection, for example, will shut down a PA in the unlikely event of cooling fan failure. Remaining modules will continue to operate without any temperature rise or thermal stress.



ENERGY-ONIX

The Transmitter People

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PULSAR SOLID STATE PDM AM FOR THE *REAL WORLD*

We know that broadcasters demand reliability along with impressive features. To keep you "ON THE AIR", every **Pulsar** incorporates extensive surge suppression and overload protection. A full range antenna line coupler is standard for less-than-ideal antenna systems. Two simple, reliable ferro resonated power supplies are used with the hot-plugable power amp modules. Conservatively rated and cool running, the choice is **Pulsar -- field proven by real broadcasters in the real world.**

TECHNICAL AND MECHANICAL SPECIFICATIONS

Configuration:	Six independent AM power modules with integral cooling fans	Audio Input:	600 ohm balanced, +4 dBm nominal
Power Output:	<u>Pulsar 3000</u> , 3000 watts (rated) 3300 watts (capable) <u>Pulsar 2000</u> , 2000 watts (rated) 2200 watts (capable) <u>Pulsar 2500</u> , 2500 watts (rated) 2750 watts (capable)	Power Input:	Single phase 198-250 V, 50/60 Hz (other voltages on special order)
Power Control:	Automatic via five (local or remote) selectable levels. 1 through 4 are pre-sets, #5 is front panel adjustable.	Power Variation:	+10%, -5% voltage +/- 5% frequency
Frequency Range:	530 KHz to 1700 KHz	Power Factor:	0.90 or better
RF Output:	50 ohms, 7/8 " EIA	Overall Efficiency:	Better than 70%
Modulator Type:	Pulse Duration (PDM)	Pwr Consumption:	<u>Pulsar 3000</u> , 4285 W (0% Mod) 6420 W (100% Modulation) <u>Pulsar 2000</u> , 2860 W (0% Mod) 4280 W (100% Modulation) <u>Pulsar 2500</u> , 3575 W (0% Mod) 5350 W (100% Modulation)
Audio Freq. Resp:	+/-0.5 dB, 30-10,000 Hz	Metering:	Forward/Reflected Power, DC Current, DC and AC Voltage
Audio Dist. (THD):	< 1% (95% Mod, 400 Hz)	Remote Control:	Transmitter ON/OFF, Power Level Selection, Overload Reset Telemetry Metering Samples
Mod. Capability:	133% positive peak	Ambient Temp.:	-10°C to 50°C
RF Harmonics:	-80 dB or more below rated output	Humidity Range:	0-95%
Spurious Outputs:	-80 dB or more below rated output	Altitude:	0-4,000m (0-13,000 ft.)
Noise and Hum:	-60 dB or more at 100% Mod	Size:	66" H x 23 1/4"W x 36"D
Freq. Stability:	+/-5 Hz	Weight:	800 lbs (approx.)