

# PULSAR

250 ♦ 500 ♦ 1000

## 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 FOLDBACK AND 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



#### 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 250 watts or 1000 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. A simple, reliable conventional brute-force power supply is 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

<b>Configuration:</b>	One to three independent AM power modules with integral cooling fans	<b>Audio Input:</b>	600 ohm balanced, +4 dBm nominal
<b>Power Output:</b>	<u>Pulsar 250</u> , 250 watts (rated) 300 watts (capable) <u>Pulsar 500</u> , 500 watts (rated) 750 watts (capable) <u>Pulsar 1000</u> , 1000 watts (rated) 1200 watts (capable)	<b>Power Input:</b>	Single phase 198-250 V, 50/60 Hz (other voltages on special order)
<b>Power Control:</b>	Automatic via five (local or remote) selectable levels. 1 through 4 are pre-sets, #5 is front panel adjustable.	<b>Power Variation:</b>	+10%, -5% voltage +/- 5% frequency
<b>Frequency Range:</b>	530 KHz to 1700 KHz	<b>Power Factor:</b>	0.82 or better
<b>RF Output:</b>	50 ohms, type "N"	<b>Overall Efficiency:</b>	Better than 70%
<b>Modulator Type:</b>	Pulse Duration (PDM)	<b>Pwr Consumption:</b>	<u>Pulsar 250</u> , 360 W (0% Mod) 530 W (100% Modulation) <u>Pulsar 500</u> , 720 W (0% Mod) 1070 W (100% Modulation) <u>Pulsar 1000</u> , 1430 W (0% Mod) 2140 W (100% Modulation)
<b>Audio Freq. Resp:</b>	+/-0.5 dB, 30-10,000 Hz	<b>Metering:</b>	Forward/Reflected Power, DC Current, DC and AC Voltage
<b>Audio Dist. (THD):</b>	< 1% (95% Mod, 400 Hz)	<b>Remote Control:</b>	Transmitter ON/OFF, Power Level Selection, Overload Reset Telemetry Metering Samples
<b>Mod. Capability:</b>	133% positive peak	<b>Ambient Temp.:</b>	-10°C to 50°C
<b>RF Harmonics:</b>	-73 dB or more below rated output	<b>Humidity Range:</b>	0-95%
<b>Spurious Outputs:</b>	-73 dB or more below rated output	<b>Altitude:</b>	0-4,000m (0-13,000 ft.)
<b>Noise and Hum:</b>	-60 dB or more at 100% Mod	<b>Size:</b>	50" H x 23 1/4"W x 36"D
<b>Freq. Stability:</b>	+/-5 Hz	<b>Weight:</b>	400-600 lbs (approx.)