

PULSAR

◆ 10,000 ◆

SOLID STATE PDM AM TRANSMITTER

Features:

- ◆ A STRONGER SIGNAL WITH 140% POSITIVE PEAK CAPABILITY AT RATED POWER
- ◆ LOWER POWER COST
- ◆ REDUNDANT MODULAR DESIGN AVOIDS DOWN TIME - INCORPORATES (6) 2KW POWER AMPS
- ◆ OUTPUT TUNING & LOADING CONTROLS FOR PERFECT MATCH TO ANTENNA
- ◆ VSWR FOLDBACK AND PROTECTION
- ◆ 3 TIMES FAULT RECYCLING
- ◆ OUTSTANDING PERFORMANCE FROM 100 WATTS TO 12KW.
- ◆ 4 POWER LEVEL PRESETS
- ◆ SOLID STATE PDM - A PROVEN FORM OF DIGITAL MODULATION DESIGN ACHIEVES BEST AUDIO QUALITY, BEST FREQUENCY RESPONSE, LOWEST LEVELS OF DISTORTION AND HIGHEST EFFICIENCY.



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 field proven in hundreds of applications. All **Pulsar** transmitters use identical broadband power amplifier modules. Amplifiers are fully interchangeable within any **10KW Pulsar** transmitter. This permits a standardized spare complement to be located at one flagship station. Each 2KW drawer contains (4) 500 watt modules.

DESIGNED TO KEEP YOU "ON THE AIR"

The **Pulsar** series is designed to remain "On The Air" in the unlikely event of a PA module failure. Remaining modules will continue to operate without any change in modulation capability. The transmitter contains (6) independent 2KW modules. In the event of a module problem, it will turn off, and the "inoperative" unit can be removed by simply sliding it out and then it can be troubleshot, returned to the factory, or can be replaced by a spare PA Drawer.



ENERGY-ONIX

The Transmitter People

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PULSAR SOLID STATE DIGITAL 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

Configuration:	Six independent power modules with integral cooling fans.	Audio Input:	600 ohms active balanced, -10 dBm to +10 dBm
Power Output:	10,000 watts (rated) 12,000 watts (capable)	Power Input:	198-450 volts (specify), 3-Phase, 50/60 Hz (specify), Single phase available by 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% voltage ± 2 Hz frequency
Frequency Range:	530 KHz to 1700 KHz	Power Factor:	0.9 or better (.92 typical)
RF Output:	50 ohms, 1 5/8" EIA	Overall Efficiency:	80% with 400 Hz modulation
Maximum VSWR:	1.5:1	Power Consumption:	11,880 W+1KW for fans (0% modulation) 17,143W +1KW for fans (100% modulation)
Modulator Type:	Pulse Duration (PDM - Digital Mod. compatible with DAB system)	Metering:	Forward/Reflected Power, DC Current, DC and AC Voltage
Audio Freq. Resp:	± 0.5 dB, 30-10,000 Hz	Remote Control:	Transmitter ON/OFF, Power Level Selection, Overload Reset Telemetry Metering Samples
Audio Dist. (THD):	< 1% (95% Mod, 400 Hz)	Ambient Temp.:	-10°C to 50°C
Mod. Capability:	133% positive peak	Humidity Range:	0-95%
Carrier Shift:	<2% Max. (1% Typical)	Altitude:	0-4,000m (0-13,000 ft.)
RF Harmonics:	-80 dB or more below rated output	Size:	Two cabinets, combined dimensions 72 3/4" H x 56 1/2"W x 37 1/4" D
Spurious Outputs:	-80 dB or more below rated output	Weight:	1,800 lbs.
Noise and Hum:	-60 dB or better at 100% Mod		
Freq. Stability:	± 5 Hz		