

PULSAR

250/500 Watt

250B 500B

SOLID STATE PDM AM TRANSMITTERS

*FOR STAND-BY, NIGHT-TIME
AND NORMAL LOW POWER
SERVICE*



FEATURES:

- ◆ High Efficiency Pulse Duration Modulation (PDM).
- ◆ Portable and Rack Mountable—Total Weight 70 lbs.
- ◆ Basic Transmitter consists of (2) 5 1/4" Chassis 35 lbs. each.
- ◆ Capable of 300/600 Watts Output.
- ◆ 140% Positive Modulation.
- ◆ VSWR Protection.
- ◆ 4 Times Fault Recycling.
- ◆ 5 Power Level Presets.
- ◆ Distortion Less Than 1%.
- ◆ Optional Tuning Unit, AM Processor and Line Surge Protection.
- ◆ Economically Priced
- ◆ Perfect for Standby and Low Power Night time service.



ENERGY-ONIX

The Transmitter People

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Description

The **Pulsar 250B/500B** transmitters are low power, portable versions of the medium and high power AM transmitters made by Energy-Onix.

Both the **Pulsar 250B** and **Pulsar 500B** incorporate all the proven features of our higher power transmitter. They represent an economic repackaging that requires only 10 1/2" of relay rack space. They can serve as excellent standby for existing high power transmitters or for pre-sunrise, after sunset, or night time reduced power service.

Options

Antenna Tuning Unit: This accessory is rack mountable and occupies only 7 inches of 19 inches rack space. It is normally used at sites where the AM antenna impedance is not constant and where an additional tuning and loading are required to maintain a minimum reflected power. This unit is capable of carrying 1.5KW of power.

Line Surge Protector Three versions are available. One is used if the line voltage is 115 volts to ground, the second is used if the line voltage is 230 volts to ground, while the third is used if each of the input lines are 115 volts AC to ground and 220 volts with respect of each other.

AM Processor System Energy-Onix offers an economical system which consists of its 3 band processor (Maximizer III) and a DBX 266XL fast acting compressor.

TECHNICAL AND MECHANICAL SPECIFICATIONS

Configuration	(2) 5 1/4 Chassis— one is the controller, 2nd is the RF Chassis.	Audio Input:	600 ohm balanced, +4 dBm nominal
Power Output:	Pulsar 250B, 250 watts (rated) 300 watts (capable) Pulsar 500B, 500 watts (rated) 600 watts (capable)	Power Input:	Single phase 100-250 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 (Specify Crystal Frequency)	Power Factor:	0.82 or better
RF Output:	50 ohms, type "N"	Overall Efficiency:	Better than 70%
Modulator Type:	Pulse Duration (PDM)	Pwr Consumption:	Pulsar 250B, 360 W (0% Mod) 530 W(100% Modulation) Pulsar 500B, 720 W (0% Mod) 1070 W (100% Modulation)
Audio Freq. Resp:	+/-0.5dB, 30-10,000Hz	Metering:	Forward/Reflected Power, DC Current and Voltage
Audio Dist. (THD):	<1% (95% Mod, 400Hz)	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:	-73 dB or more below rated output	Humidity Range:	0-95%
Spurious Outputs:	-73 dB or more below rated output	Altitude:	0-4,000m (0-13,000 ft.)
Noise and Hum:	-60 dB or more at 100% Mod.	Dimensions (Gross)	19"W x 10 1/2"H X 20" D
Freq. Stability:	+/-5 Hz	Weight: (Net)	90 pounds