

Advanced Test Equipment Corp.

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VBA250-2500A

10kHz-250MHz 2500W Amplifier



The VBA 250-2500A is a member of our family of 10kHz-250MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA250 series, it is based on high performance silicon push-pull MOSFET output stages. The amplifier utilizes exclusive power combining techniques, minimizing loss for a more efficient solution.

The amplifier can be controlled from either the front panel or remote control via the Ethernet, USB and GPIB interfaces. The digital interface system manages enabling and disabling the amplifier, monitoring power levels, monitoring power supply health, self diagnostic reporting, communicating with the control computer and implementing electrical interlocks. The keypad and display interface is used for monitoring amplifier state, power levels, interlock states etc. and for configuration options.

The amplifier operates in class A, the benefits for EMC applications being very low distortion and tolerance of 100% mismatch. Fold-back protection is neither fitted nor needed! This makes it supremely suited for very demanding antenna and test chamber requirements.

Choose Vectawave for high efficiency and performance in your regular power amplifier requirements.

See overleaf for technical specification.

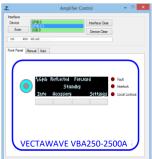
VECTAWAVE TECHNOLOGY LIMITED
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Vectawave

- Rugged push-pull MOSFET technology
- Class A for maximum mismatch drive
- High efficiency proprietary combiner design







Remote GUI



Smooth air exhausts



7/16 RF output

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Technical Specification

Electrical

Frequency Range (Instantaneous) 10kHz-250MHz

Rated Output Power 2500W 10kHz-100MHz

2500-1900W 100MHz-250MHz (de-rating

slope of 4.8W/MHz)

Output Power at 1dB Gain Compression 2100W 10kHz-100MHz

2100-1300W 100-250MHz (de-rating slope of

5.33W/MHz)

Gain 64dB Min

Third Order Intercept Point (see note 1) 70dBm

Gain variation with Frequency ±3dB

Harmonics at linear Output Power Better than -20dBc

Maximum input power +10dB

Output Impedance 50 Ohms

Stability Unconditional

Output VSWR Tolerance (see note 2) Infinity:1

Input VSWR 2:1 (Max)

AC Supply (3 phase) option a) or b) a) 200-240Vac, 4 pin plug (No neutral)

b) 350-415Vac, 5 pin plug (With neutral)

500.00

Supply Frequency Range 47-63Hz

Supply Power 11kVA(Max)

Mains Connector EN60309 plug

Mechanical

RF Connector Style Type N Female input, 7/16 female output

Safety Interlock 2 x BNC, S/C and O/C to Mute

Communication Interface USB/GPIB/Ethernet

Front panel display Standard (including forward and reflected

power indication)

Dimensions 25U Rack, 800mm Deep

Mass 291kg
Operating Temperature Range 0-40°C

Case Style Options Rack with rear panel connectors

TBC

Option a) 200-240Vac, 4 pin plug (No neutral)

Typical Performance

er at 1dB GCP (W)

Regulatory Compliance

Conducted and Radiated Emissions EN61326 Class A

Conducted and Radiated Immunity EN61326:2013 Table 1

Safety EN61010-1

Notes

1 The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.

2 Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.





