

# VBA400-260

**10kHz - 400MHz 260W Class A  
Broadband Amplifier**

- **Class A linear and low distortion design**
- **Ideal for BCI testing**
- **Mismatch tolerant and unconditionally stable**
- **Rugged design for EMC testing**

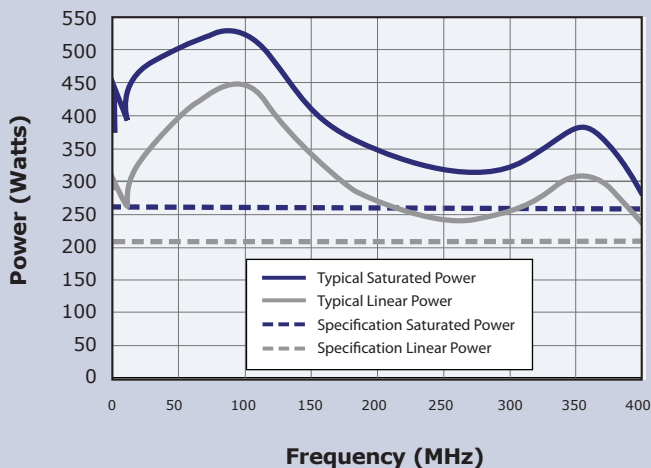


Designed specifically for automotive, military and aerospace BCI EMC testing, this mismatch tolerant Class A amplifier delivers power continuously into the varying match typically associated with this type of testing.

The Class A push pull design ensures a high reliability, low distortion linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

The unit is powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is air-cooled with integral fans, and is protected against faulty cooling by excess temperature sensing. Two safety interlock connectors are provided, one to short for interlock and the other to open circuit. Front panel indicators are provided to indicate over-temperature, standby and operate and rf interlock operation.

**Performance Chart**



**See overleaf for technical specification**

**Electrical**

<b>Frequency Range (Instantaneous)</b>	0.01-400MHz
<b>Rated Output Power</b>	260W minimum (>300W typical)
<b>Output Power at 1dB Gain Compression</b>	210W minimum (>240W typical)
<b>Gain</b>	54dB Min
<b>Third Order Intercept Point (see note 1)</b>	64dBm
<b>Gain variation with Frequency</b>	±3dB
<b>Harmonics at 200W Output Power</b>	Better than -20dBc
<b>Output Impedance</b>	50 Ohms
<b>Stability</b>	Unconditional
<b>Output VSWR Tolerance (see note 2)</b>	Infinity:1
<b>Input VSWR</b>	2:1
<b>Supply Voltage (single phase)</b>	100-264V ac
<b>Supply Frequency Range</b>	47-63Hz
<b>Supply Power</b>	<2kVA (Max)
<b>Mains Connector</b>	IEC320 C20

**Mechanical**

<b>RF Connector Style</b>	Type N Female
<b>Safety Interlock</b>	BNC female, o/c and/or s/c to mute
<b>USB/GPIB Interface</b>	Optional
<b>Dimensions</b>	19 inch, 6U Case, 440mm Deep
<b>Mass</b>	30kg
<b>Operating Temperature Range</b>	0-40°C

**Regulatory Compliance**

<b>Conducted and Radiated Emissions</b>	EN61326 Class B
<b>Conducted and Radiated Immunity</b>	EN61326: 1997 Table 1
<b>Safety</b>	EN61010-1
<b>Mains Harmonic Currents</b>	EN61000-3-2
<b>Voltage Fluctuations &amp; Flicker</b>	EN61000-3-3

**Options**

Bench model with front panel mounted input/output connectors  
 Rack mountable with front panel mounted input/output connectors  
 Rack mountable with rear panel mounted input/output connectors

**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

**Represented Worldwide**

**Vectawave Technology Ltd.**  
 Unit D, The Apex,  
 St Cross Business Park, Monks Brook,  
 Newport, Isle of Wight, PO30 5XW

**Tel:** +44 (0) 1983 821 818

**Fax:** +44 (0) 1983 532 737

**E-mail:** sales@vectawave.co.uk