

VBA100-1100

10kHz - 100MHz 1100W Amplifier

- Robust silicon MOSFET push-pull output design
- High efficiency proprietary combiner design
- Class A for maximum mismatch drive
- General linear power requirements

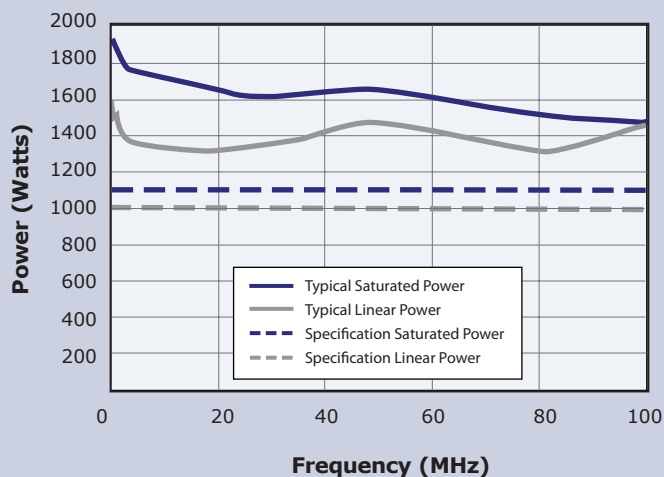
The **VBA100-1100** is a member of our family of 10kHz-100MHz high power amplifiers, designed primarily for EMC applications.

Like all our products of the VBA100 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 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



Performance Chart



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

See overleaf for technical specification

Electrical

Frequency Range (Instantaneous)	10kHz-100MHz
Rated Output Power	1100W Min (1500W typical)
Output Power at 1dB Gain Compression	1000W Min (1300W typical)
Gain	62dB Min
Third Order Intercept Point (see note 1)	72dBm
Gain variation with Frequency	±3dB
Harmonics at 1kW Output Power	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity:1
Input VSWR	2:1 (Max)
Supply Voltage	see options for 3 phase configuration
Supply Frequency Range	47-63Hz
Supply Power	<6kVA (Max)
Mains Connector	Appropriate IEC 60309 plug (see Options)

Mechanical

RF Connector Style	Type N Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
USB/GPIB Interface	Optional
Dimensions	19 inch, 34U Rack, 800mm Deep
Mass	200kg
Operating Temperature Range	0-40°C
Options	3 Phase Delta (5 pin plug) or 3 Phase Star (5 pin plug)

Regulatory Compliance

Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:1997 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.

**Represented Worldwide**

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