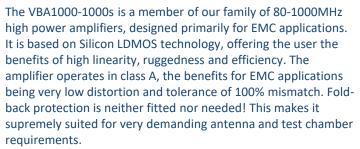
VBA1000-1000s

80MHz-1000MHz 1000W Amplifier



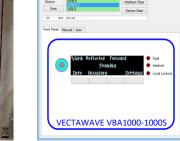


The amplifier can be controlled from either the front panel or remote control via the Ethernet, USB and GPIB interfaces. The digital interface system manages enabling and disabling the amplifier, monitoring power levels, monitoring power supply health, communicating with the control computer, implementing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



- Rugged push-pull Silicon LDMOS technology
- Class A for maximum mismatch drive
- Linear power





Remote interface

Remote GUI





Smooth air exhausts

7/16 RF output

Technical Specification

Electrical

Frequency Range (Instantaneous)
Output Power at 3dB Gain Compression

1500W (80-400MHz) 1000W (400-1000MHz)

Output Power at 1dB Gain Compression

1000W (80-400MHz) 800W (400-1000MHz)

Gain

Third Order Intercept Point (see note 1)
Gain variation with Frequency
Maximum input power

Maximum input power Harmonics at 1000W Output Impedance

Stability

Output VSWR Tolerance (see note 2)
Input power required for min 1000W output

Input VSWR

AC Supply (3 phase) option a) or b)

Supply Frequency Range

Supply Power
Mains Connector
Mechanical
RF Connector Style
Safety Interlock

Remote Control Interface

Dimensions Mass

Operating Temperature Range

Case Style

Regulatory Compliance

Conducted and Radiated Emissions Conducted and Radiated Immunity

Safety

61dB Min

80-1000MHz

70dBm ±3dB +10dBm Better than -20dBc

50 Ohms Unconditional

Infinity:1 0dBm 1.5:1 (Max)

a) 200-240Vac, 4 pin plug (No neutral) b) 350-415Vac, 5 pin plug (With neutral)

45-63Hz <6kVA (Max) EN60309 plug

Type N female input, DIN7/16 female output

Dual input, S/C and/or O/C to Mute

USB/GPIB/Ethernet

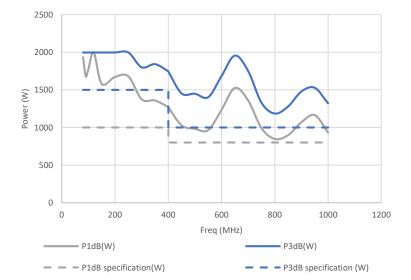
19 inch, 25U Rack, 800mm deep

160kg 0-40°C

Rack with Rear panel connectors

EN61326 Class A EN61326:2013 Table 1

EN61010-1





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



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

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.

