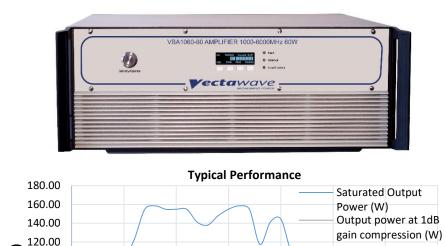
Advanced Test Equipment Corp.

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VBA1060-60

1000MHz-6000MHz 60W Amplifier





- Class A for maximum mismatch drive
- Featuring high efficiency proprietary Quadrature Hybrid designs
- Dual coupled sample ports

The VBA1060-60 is a 1000-6000MHz 60W high power amplifier designed for applications where a rugged Class A mismatch tolerant amplifier is required.

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The amplifier is based on high performance extra wideband GaN output stages and utilizes Vectawave proprietary Quadrature Hybrid combining techniques, minimizing loss for a more efficient solution.

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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 and implementing electrical interlocks. The keypad and display interface is used for monitoring amplifier state, power levels, interlock states etc. and for configuration options. Forward and reflected power sample ports are accessible via the rear panel.

The amplifier operates in class A, with very low distortion and tolerance of 100% mismatch without foldback. See overleaf for technical specification.

VECTAWAVE TECHNOLOGY LIMITED UNIT D THE APEX ST CROSS BUSINESS PARK MONKS BROOK NEWPORT ISLE OF WIGHT PO30 5XW UNITED KINGDOM

Power (W)

100.00

80.00

60.00

40.00 20.00

0.00

0

1

2

3

Frequency (GHz)

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Technical Specification

Electrical			
Frequency Range (Instantaneous)	1000-6000MHz		
Rated Output Power	60W		
Output Power at 1dB Gain Compression	50W		
Gain	49dB Min		
Third Order Intercept Point (see note 1)	58dBm		
Gain variation with Frequency	±3dB		
Harmonics at rated linear power	Better than -20dBc		
Output Impedance	50 Ohms		
Stability	Unconditional		
Output VSWR Tolerance (see note 2)	Infinity any phase		
Input VSWR	2:1 (Max)		
Supply Voltage	100-240Vac (+/- 10%)		
Supply Frequency Range	45-63Hz		
Supply Power	1.5kVA		
Mains Connector	IEC320-C20		
Mechanical			
RF Connector Style	Input type N female, output N female		
Sample ports	Forward N type female, Reverse N type female		
Safety Interlock	2 x BNC, S/C and O/C to mute		
Communication Interface	USB/GPIB/Ethernet		
Dimensions	4U Rack, 600mm deep		
Mass	15kg		
Operating Temperature Range	0-40°C		
Case Style Options	Rack Mountable with rear panel connectors		

Regulatory ComplianceConducted and RadiatedEN61326 Class AEmissionsEN61326:2013 Table 1SafetyEN61010-1

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.

