

Model AR-G120

Features:

- 100 W CW, 0.8 6.0 GHz
- Class A operation
- 100% mismatch tolerant with no foldback
- Ethernet, USB, RS232 & GPIB interface
- Built in Calibrated Directional Coupler
- 3 Year Warranty

To view our full amplifier portfolio visit: www.arworld.us/ar-amplifiers

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New class A, high power density, design has allowed us to produce a 100 watt, 0.8 GHz to 6 GHz amplifier in a compact 4U package. With a minimum of 100 watts of linear power this amplifier is ideal for RF immunity testing in a GTEM Cell or with a wide range of available horn antenna such as the Tesea BHA range. Readily integrated with the Teseg NSG 80 MHz to 6 GHz test system these amplifiers can form part of a broadband RF test system. The new touch screen colour display gives an immediate visual indication of forward and reverse power along with the current operating status of the amplifier and access to diagnostic information such as gate current and heatsink temperature.

Fan speed adjusts depending on the heatsink temperature thus ensuring the minimum audio noise level possible in the operating environment. The inbuilt calibrated forward power coupler provides a quick and easy way to monitor forward power with any power meter. Input overdrive protection prevents damage to the input devices due to accidental high input power. Multiple remote interfaces are available as standard including USB, GPIB, RS232, and Ethernet. Amplifier gain can be controlled either remotely through one of the available interfaces or via the front panel touch screen.

The export classification for this equipment is 3A001. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

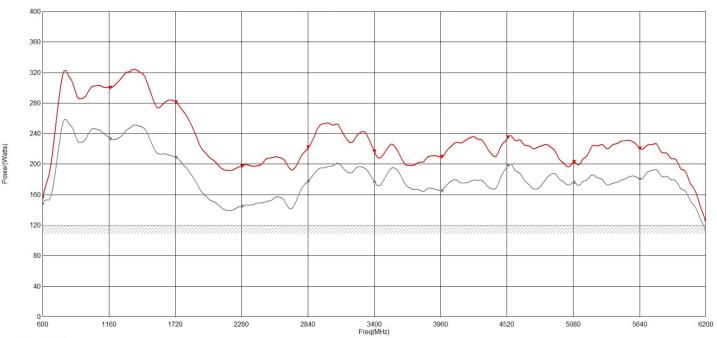
Electrical Specifications		
Parameter	Value	
Frequency Bands	Single Band	
Frequency (min.) GHz	0.8 GHz	
Frequency (max.) GHz	6 GHz	
Psat (min)	125 W	
P1dB (min.)	100 W	
Small Signal Gain	50 dB	
Gain Variation (max) ±	+/- 3.0 dB	
Harmonics @ P1dB (typ)	-18 dBc	
Spurious (min.)	-70 dBc	
3rd Order Intercept Point	10 dB > P1dB	
RF Sample Port Coupling Factor (nom)	47 dB	
Modulation Formats	AM, FM, PM, ODFM	
Maximum Input Power (no damage)	10 dBm	
Gain Control	0-30 dB in 255 Steps	
Output VSWR Tolerance	Infinite any phase (no foldback)	
Stability	Unconditional	
Output Impedance	50 Ohm	
Input VSWR	2:1 (max)	
Output VSWR	2:1 (typical)	

General Specifications		
Parameter Value		
Safety Interlock	Via rear panel mounted BNC-female	
Supply Voltage	90 to 264 VAC	
Supply Frequency	47 - 63	
Supply Power (Typ.)	1.5 kVA	
RF Input Connector	Type N female	
RF Output Connector	Type N female	
RF Sample Port Connectors	Type N female	
Com Interface	GPIB, RS232, Ethernet & USB	
Weight kg	28 kg	
Dimensions	19 inch, 4U, 615mm (WxHxD)	
Cooling System	Air Cooled, Self-contained	

Available Variants		
Product	Configuration	Item #
AR-G120-001	Front Panel RF Connectors	3-342428
AR-G120-002	Rear Panel RF Connectors	3-342429

- 100 W
- 0.8 6.0 GHz

TYPICAL PSAT POWER @ 0dBm INPUT



→ Psat → P1dB

