

Amplifiers

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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ISO 9001:2015 Certified
ISO 17025 :2017 Accredited



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 Teseq BHA range. Readily integrated with the Teseq 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.

- 100 W
- 0.8 – 6.0 GHz

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, OFDM
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)

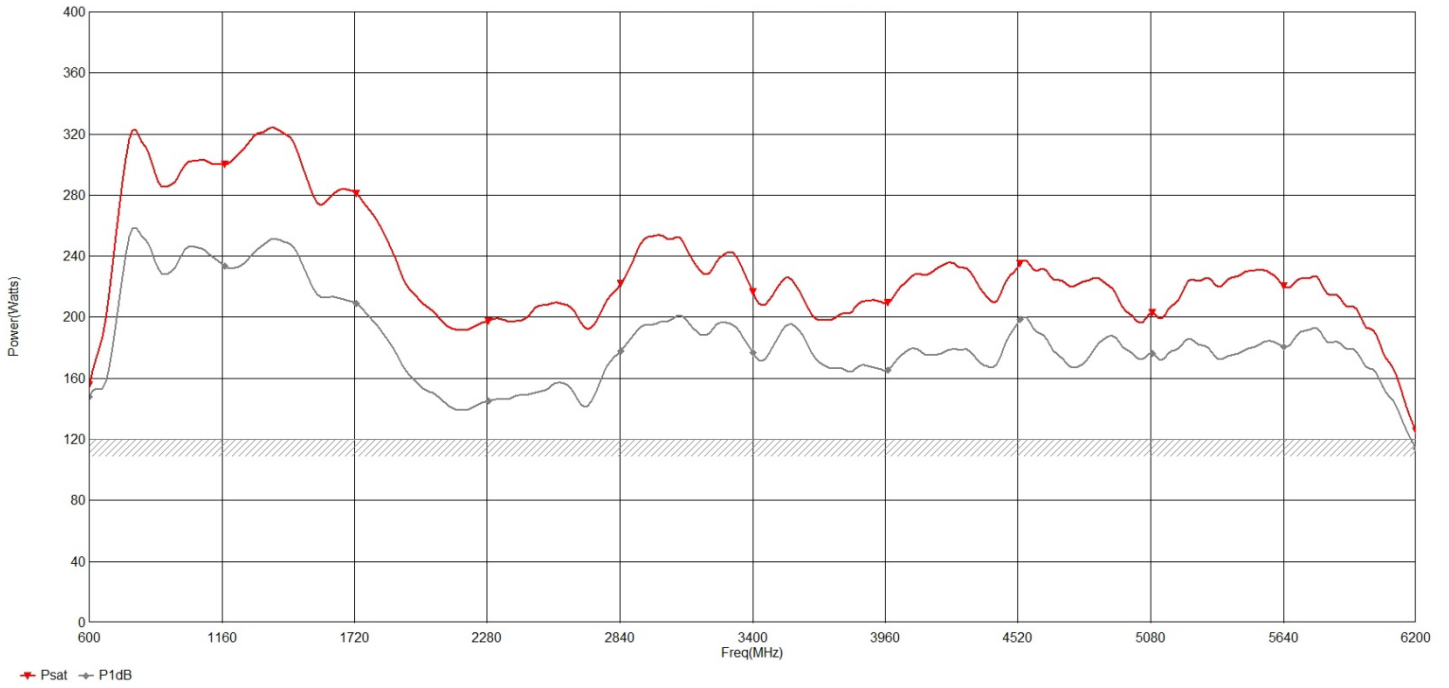
General Specifications	
Parameter	Value
Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	90 to 264 VAC
Supply Frequency	47 - 63
Supply Power (Typ.)	1.5 kVA
RF Input Connector	Type N female
RF Output Connector	Type N female
RF Sample Port Connectors	Type N female
Com Interface	GPIB, RS232, 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

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- 100 W
- 0.8 - 6.0 GHz

TYPICAL PSAT POWER @ 0dBm INPUT



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To order AR Products, call: 215.723.8181. For an applications engineer, call: 800.933.8181. Direct to Service call: 215.723.0275 or email: service@arworld.us

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