

## AR08G6-200

### 0.8 - 6.0 GHz 200 Watt P1dB Class A Solid-State Amplifier



#### MAIN FEATURES

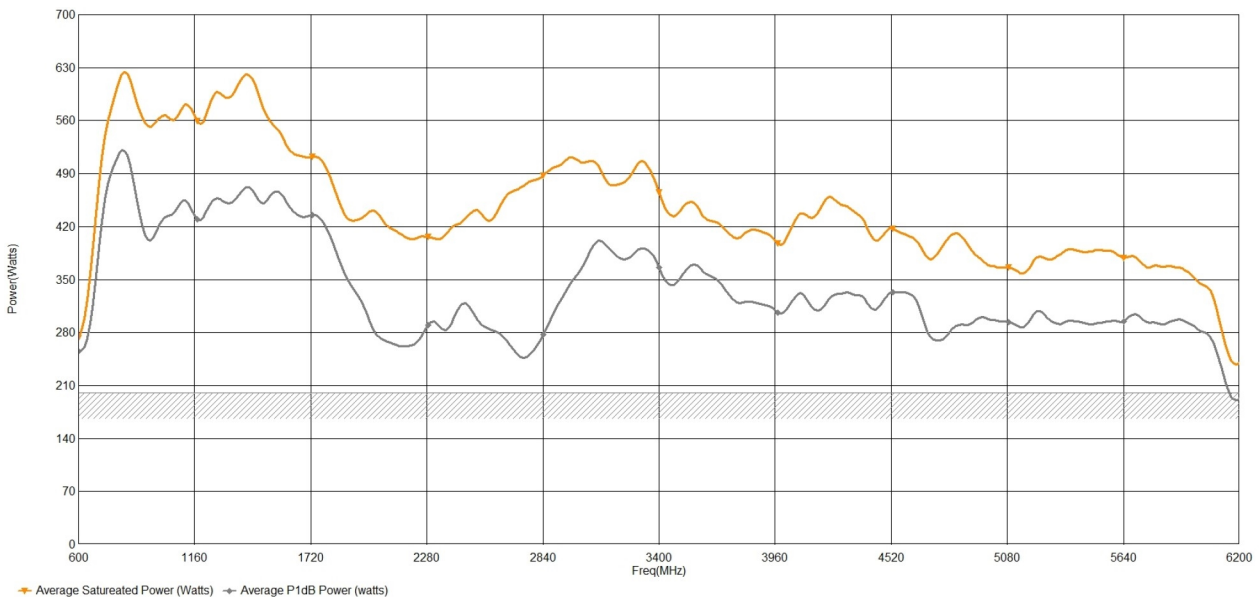
- **Class A Operation**
- **100% Mismatch Tolerant with no Foldback**
- **Scalable Modular Construction**
- **Ethernet, USB, GPIB, RS-232 Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL), Telecom Component Test and Aerospace&Defence**

The Model AR08G6-200 solid-state, Class A design, self-contained, air-cooled, broadband power amplifier. It is designed for applications requiring instantaneous bandwidth, high gain, and linearity. The amplifier provides a minimum of 200 watts P1dB across its operating bandwidth of 0.8 - 6.0 GHz. It includes protection from input overdrive beyond 10 dBm, as well as protection from various failure conditions such as over-temperature and power supply faults.

An easy-to-read front panel display shows the operational status and fault conditions. All amplifier control functions and status indications are available remotely using GPIB/IEEE-488, RS-232, USB, or Ethernet. Interface connectors are located on the back panel. The switch on the front panel manages local and remote operation.

Its wide bandwidth also makes it suitable for 5G testing applications. The Class A design allows for continued operation into high VSWR loads, including open and short circuits, making it suitable for EMC Test applications.

The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.K. Export Administration Regulations. Diversion contrary to U.K. law is prohibited.



### Technical Specifications

Frequency Range	0.8 - 6.0 GHz
Rated Output Power	250W (min) - 280W (typ) Watts
Input for Rated Output	1 dBm
Power Output @ 1dB Compression	200W (min) - 280W (typ) Watts
Small Signal Gain	53 dB
Gain Control Adjust When Below P1dB	30 dB
Harmonics @ P1dB (typ)	-18 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max) (typ)
Output VSWR	2:1 (typ) (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	63 dB > P1dB
Noise Figure	12 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any Phase (No Foldback)
Stability	Unconditional

### General Specifications

Acoustic Noise (measured @ 1 M)	60 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	2.5 KVA
Supply Voltage Single Phase	90 to 264 VAC

### Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-N Female
RF Sample Port Connectors	Type-N Female, (coupling factor 50 dB typical)
Safety Interlock	15-Pin Subminiature D Female
Dimensions (No Cabinet) (W x H x D)	48.3 x 31.1 x 61.5 cm (19.0 x 12.2 x 24.2 in)
Weight (No Cabinet)	50 Kg (110 lbs)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / USB 2.0 / Ethernet

### Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M M
Shock and Vibration	Normal Truck Transport

### Regulatory Compliance

EMC	EN 61326-1
Safety	EN 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	3A001



**Available Configurations**

Product	Configuration	Item #
AR08G6-200-001	Front Panel RF Connectors	4-342006
AR08G6-200-002	Rear Panel RF Connectors	4-342007

