

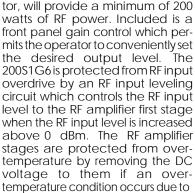
# 200S1G6

- M1-M5
- 200 Watts CW
- 0.7-6GHz

#### **Features**

The Model 200S1G6 is a solid-state, Class A design, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Housed in a stylish contemporary cabinet, the unit is designed for benchtop use, but can be removed from the cabinet for immediate equipment rack mounting.

The 200S1G6, when used with a sweep genera-



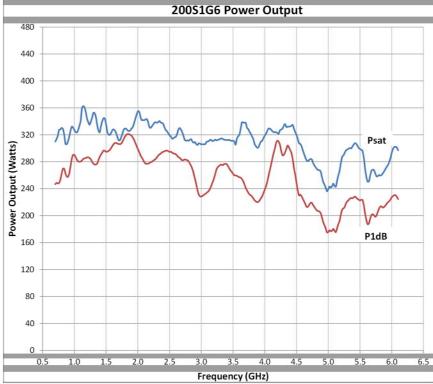
cooling blockage or fan failure.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a Local/Remote switch on the front panel of the amplifier.

The low level of spurious signals and linearity of the Model 200S1G6 make it ideal for use as a driver amplifier in testing wireless and communication components and subsystems. It can be used as a test instrument covering multiple frequency bands and is suitable for a variety of communication technologies such as CDMA, W-CDMA, TDMA, GSM etc. It is also suitable for EMC Test applications where undistorted modulation envelopes are desired.

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.

There is a digital display on the front panel to indicate the operate status and fault conditions if an over-temperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared.



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# Specifications

RATED POWER OUTPUT: 200 watts minimum (0.7-6.0 GHz)

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum

POWER OUTPUT @ 3dB COMPRESSSION:

Nominal: 220 watts Minimum: 180 watts

POWER OUTPUT @ 1dB COMPRESSION:

Nominal: 180 watts Minimum: 160 watts

SMALL SIGNAL GAIN FLATNESS: ±1.5 dB typical; ±2.5 dB maximum

FREQUENCY RESPONSE: 0.7-6 GHz instanta-

neously

GAIN (at maximum setting): 54 dB minimum

GAIN ADJUSTMENT:

(Continuous Range): 10 dB minimum

(4096 steps remote)

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 max-

imum

OUTPUT IMPEDANCE: 50 ohms, nominal

MISMATCHTOLERANCE: 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. See Application Note #27.

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or pulse Modulation appearing on

theinputsignal.

THIRD ORDER INTERCEPT: 60 dBm typical

NOISE FIGURE: 10 dB typical HARMONIC DISTORTION:

Minus 20 dBc maximum at 180 watts, (0.7-6.0

GHz)

SPURIOUS: Minus 73 dBc Typ.

PHASE LINEARITY: ±1.0 deg/100 MHz, Typ PRIMARY POWER (Selected Automatically): 90-132, 180-264 VAC; 50/60 Hz, single phase;

2000 watts maximum

CONNECTORS: RF: Type N female **REMOTE INTERFACES:** IEEE-488: 24 pin

RS-232: 9 pin Subminiature D RS-232 (fiberoptic): Type ST

USB 2.0: Type B Ethernet: RJ-45

SAFETY INTERLOCK: 15 pin Subminiature D COOLING: Forced air (self contained fans)

**EXPORT CLASSIFICATION: 3A001** 

# **Model Configurations**

MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
200S1G6	Type N female, front	Type N female, front	64 kg (140 lbs)	50.3 x 47 x 61 cm 19.8 x 18.5 x 24 in
200S1G6M1	Type N female, rear	Type N female, rear	64 kg (140 lbs)	50.3 x 47 x 61 cm 19.8 x 18.5 x 24 in
200S1G6M2	Same as 200\$1G6 with enclosure removed for rack mounting		50 kg (110 lbs)	48.3 x 44.5 x 58.5 cm 19.0 x 17.5 x 23 in
200S1G6M3	Same as 200S1G6M1 with enclosure removed for rack mounting		50 kg (110 lbs)	48.3 x 44.5 x 58.5 cm 19.0 x 17.5 x 23 in
200S1G6M4	Same as 200S1G6M2 with rack enclosure and casters		86 kg (190 lbs)	56.1 x 90.2 x 67.3 cm 22.1 x 35.5 x 26.5 in
200S1G6M5	Same as 200S1G6M3 with rack enclosure and casters		86 kg (190 lbs)	56.1 x 90.2 x 67.3 cm 22.1 x 35.5 x 26.5 in