



350S1G6

- 350 Watts CW
- 0.7-6GHz



Features

The Model 350S1G6 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.

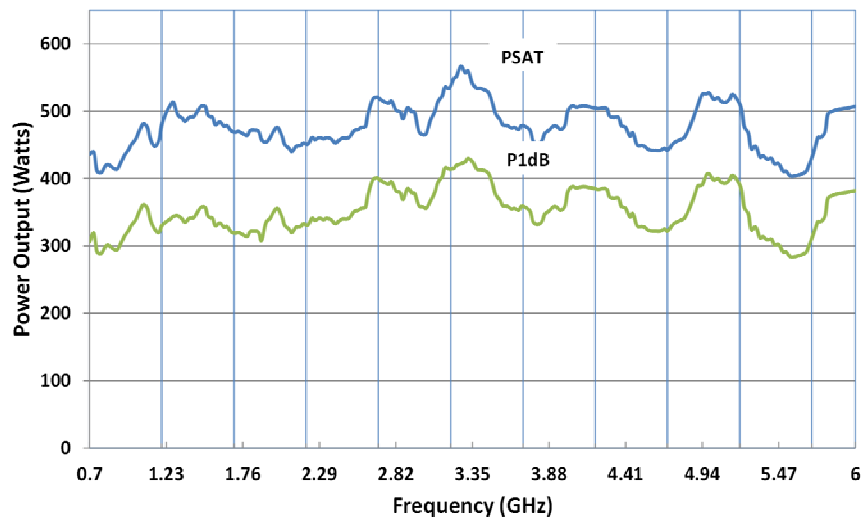
The 350S1G6, when used with a sweep generator, will provide a minimum of 350 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 350S1G6 is protected from RF input overdrive by an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above 0 dBm. The RF amplifier stages are protected from over-temperature by removing the DC voltage to them if an over-temperature condition occurs due to cooling blockage or fan failure. 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. 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 350S1G6 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.

350S1G6 Typical Power Output



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Specifications

RATED POWER OUTPUT: 350 watts minimum (0.7–6.0 GHz)

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum

POWER OUTPUT @ 3dB COMPRESSION

Nominal 370 watts
Minimum 315 watts

POWER OUTPUT @ 1dB COMPRESSION

Nominal 300 watts
Minimum 250 watts

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

FREQUENCY RESPONSE: 0.7–6 GHz instantaneously

GAIN (at maximum setting): 58 dB minimum

GAIN ADJUSTMENT: (Continuous Range) 10 dB minimum, 4096 steps remote

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE: 50 ohms, nominal

MISMATCH TOLERANCE* 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 the input signal

THIRD ORDER INTERCEPT: 63 dBm typical

NOISE FIGURE: 10 dB typical

HARMONIC DISTORTION: Minus 20 dBc maximum at 250 watts, (0.7-6.0 GHz)

SPURIOUS: Minus 73 dBc Typ.

PHASE LINEARITY: ±1.0 deg/100 MHz, Typ

PRIMARY POWER (Selected Automatically): 200-260 VAC; 50/60 Hz, single phase; 3800 watts maximum

CONNECTORS

RF (Input & Output) See Model Configurations

REMOTE INTERFACES

IEEE-488 24 pin
RS-232 9 pin Subminiature D
RS-232 (fiber optic) 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)
350S1G6	Type N (f), front	7-16 DIN (f), front	93 kg (205 lbs)	50.3 x 59.2 x 61 cm 19.8 x 23.3 x 24 in
350S1G6M1	Type N (f), rear	7-16 DIN (f), rear	93 kg (205 lbs)	50.3 x 59.2 x 61 cm 19.8 x 23.3 x 24 in
350S1G6M2	Same as 350S1G6 with enclosure removed for rack mounting		79.4 kg (175 lbs)	48.3 x 57.9 x 61 cm 19.0 x 22.8 x 24 in
350S1G6M3	Same as 350S1G6M1 with enclosure removed for rack mounting		79.4 kg (175 lbs)	48.3 x 57.9 x 61 cm 19.0 x 22.8 x 24 in