350S1G6A

- 350 Watts CW
- 0.7–6.0GHz
- Class A
- CE & RoHS Compliant
- High Efficiency

Features

The Model 350S1G6A is a portable, self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. The Model 350S1G6A, when used with a sweep generator, will provide a minimum of 350 watts of RF power.

The Model 350S1G6A is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a color LCD touch screen and a single rotary knob to offer status reporting and control capability. The display provides Forward Power and Reflected Power values plus amplifier status. Special features include a gain control and RF output level protection.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS232 hardware and fiber optic, USB and Ethernet. The buss interface connect-or is located on the back panel and positive control of local or remote operation is assured by a keylock on the front panel of the amplifier.

The low level of spurious signals and linearity of the Model 350S1G6A 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.

350S1G6A TYPICAL POWER OUTPUT
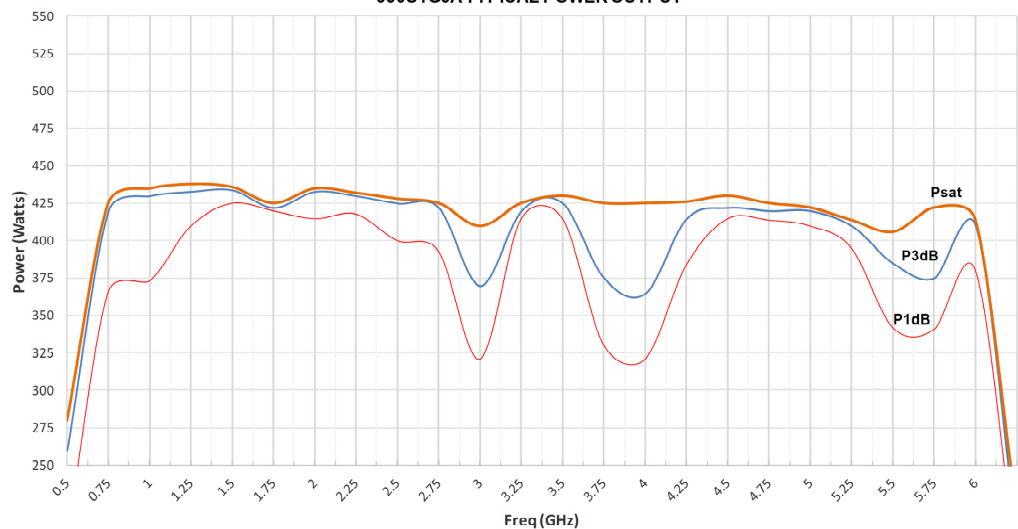
AR RF/Microwave Instrumentation
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Souderton, PA 18964
215-723-8181

For an applications engineer call:800.933.8181

www.arworld.us

Specifications

350S1G6A

- **350 Watts CW**
- **0.7–6.0GHz**

RATED OUTPUT POWER: 350 watts minimum

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

POWER GAIN FLATNESS: ±1.5 dB typical, ±2.5 dB maximum

FREQUENCY RESPONSE: 0.7-6.0 GHz instantaneously

GAIN (at maximum setting): 56 dB minimum

GAIN ADJUSTMENT: 10 dB minimum

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE: 50 ohms nominal

MISMATCH TOLERANCE: 100% of rated power without foldback up to 6.0:1 mismatch above which may limit to 175 watts reflected power. 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.

HARMONIC DISTORTION: Minus 20 dBc maximum at 300 watts (1.0-6.0 GHz); Minus 20 dBc typical at 300 watts (0.7-1.0 GHz).

THIRD ORDER INTERCEPT POINT: 58 dBm typical

PRIMARY POWER: 200-260 VAC, 50/60 Hz, single phase, 3600 watts

CONNECTORS:

RF Input — Type N female, rear
RF Output — Type 7-16 DIN female, rear
Safety intlk — 15 pin female subminiature D, rear
Remote computer interface — IEEE-488 (GPIB) & RS-232 connector, rear
Remote Computer Interface (Fiber Optic) — ST Conn Tx, RS-232 Rx
USB 2.0 — Type B
Ethernet — RJ-45

IEEE-488 (GPIB) INTERFACE & RS-232: Allows control and monitoring of all front panel controls except keylock position control

COOLING: Forced air (self contained fans)

WEIGHT: See Model Configurations

SIZE (W x H x D): See Model Configurations

EXPORT CLASSIFICATION: 3A001

Model Configurations

MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
350S1G6A	Type N female, rear	Type 7-16 DIN female, rear	136 kg (300 lbs)	50.3 x 127 x 61 cm 19.8 x 50 x 24 in
350S1G6AM15	Same as 350S1G6A with alternate rack to accommodate customer equipment.		191 kg (420 lbs)	56.1 x 173 x 82.3 cm 22.1 x 68 x 32.4 in

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 For Faxing Orders:866.859.0582 (Orders Only Please) info@arworld.us
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