



## 350S1G4A

- 350 Watts CW
- 0.7-4.2GHz



### Features

The Model 350S1G4A is a portable, self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability.

The Model 350S1G4A, when used with a sweep generator, will provide a minimum of 350 watts of RF power.

The Model 350S1G4A 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 hardwire and fiber optic, USB and Ethernet. The buss interface connector is located on the back panel and positive control of local or remote operation is assured

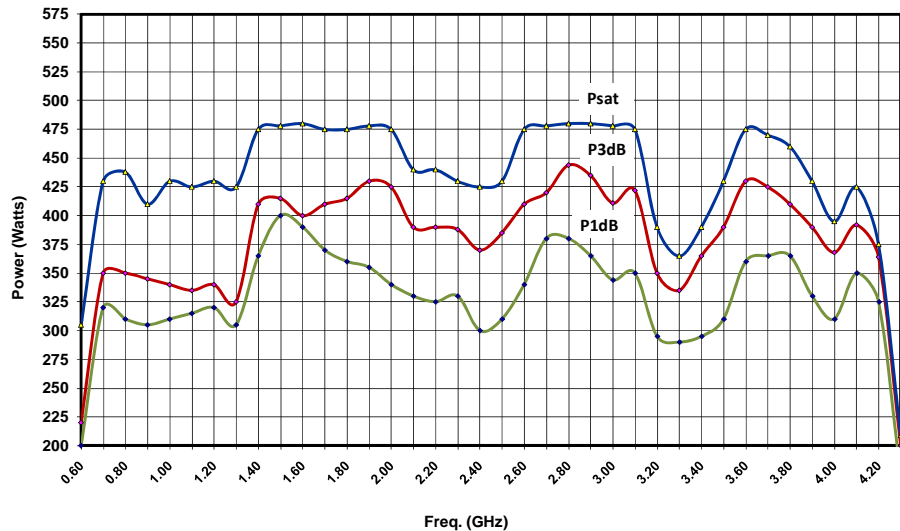
by a keylock on the front panel of the amplifier.

The low level of spurious signals and linearity of the Model 350S1G4A 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 350S1G4A is housed in a single equipment rack and is designed to provide complete standalone performance for RF testing. It is also configured to be used as a sub-amplifier in a 600-watt, 900-watt, or 1200-watt higher power amplifier. It can be added to in an incremental fashion to become a part of these higher power units, yet still be used as a standalone 350 watt amplifier.

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.

MODEL 350S1G4A TYPICAL POWER OUTPUT



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# 350S1G4A

- 350 Watts CW
- 0.7-4.2GHz

## Specifications

**RATED OUTPUT POWER:** 350 watts minimum  
**INPUT FOR RATED OUTPUT:** 1.0 milliwatt maximum  
**POWER OUTPUT @ 3dB COMPRESSION:** Nominal, 375 watts; Minimum, 320 watts  
**POWER OUTPUT @ 1dB COMPRESSION:** Nominal, 325 watts; Minimum, 270 watts  
**FLATNESS:** ±1.5 dB typical, ±2.0 dB maximum  
**FREQUENCY RESPONSE:** 0.7-4.2GHz instantaneously  
**GAIN (at maximum setting):** 55.5 dB minimum  
**GAIN ADJUSTMENT:** 15 dB minimum  
**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.  
**HARMONIC DISTORTION:** Minus 20 dBc maximum at 325 watts  
**THIRD ORDER INTERCEPT POINT:** 65 dBm typical  
**RF POWER DISPLAY:** Digital, forward and reflected

**PRIMARY POWER:** 120-240VAC, 50/60 Hz, single phase, 1900 watts

**CONNECTORS:**

RF Connectors See Model Configurations  
 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  
 Operate Interface RJ-11 on rear panel  
 USB 2.0 Type B  
 Ethernet RJ-45

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

**COOLING:** Forced air (self contained fans)

**EXPORT CLASSIFICATION:** 3A001

## Model Configurations

MODEL #	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
350S1G4A	Type N female, front	Type 7/16 female, front	86.2 kg (190 lbs)	50.3 x 55.9 x 61 cm 19.8 x 22 x 24 in
350S1G4AM1	Type N female, rear	Type 7/16 female, rear	86.2 kg (190 lbs)	50.3 x 55.9 x 61 cm 19.8 x 22 x 24 in
350S1G4AM2	Same as standard with enclosure removed for rack mounting.		68 kg (130 lbs)	48.3 x 53.3 x 61 cm 19 x 21 x 24 in
350S1G4AM3	Same as M1 with enclosure removed for rack mounting.		68 kg (130 lbs)	48.3 x 53.3 x 61 cm 19 x 21 x 24 in