



525S1G4A

- M1, M2
- 525 Watts CW
- 0.8–4.2GHz



Features

The Model 525S1G4A 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 525S1G4A, when used with a sweep generator, will provide a minimum of 525 watts of RF power.

The Model 525S1G4A 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.

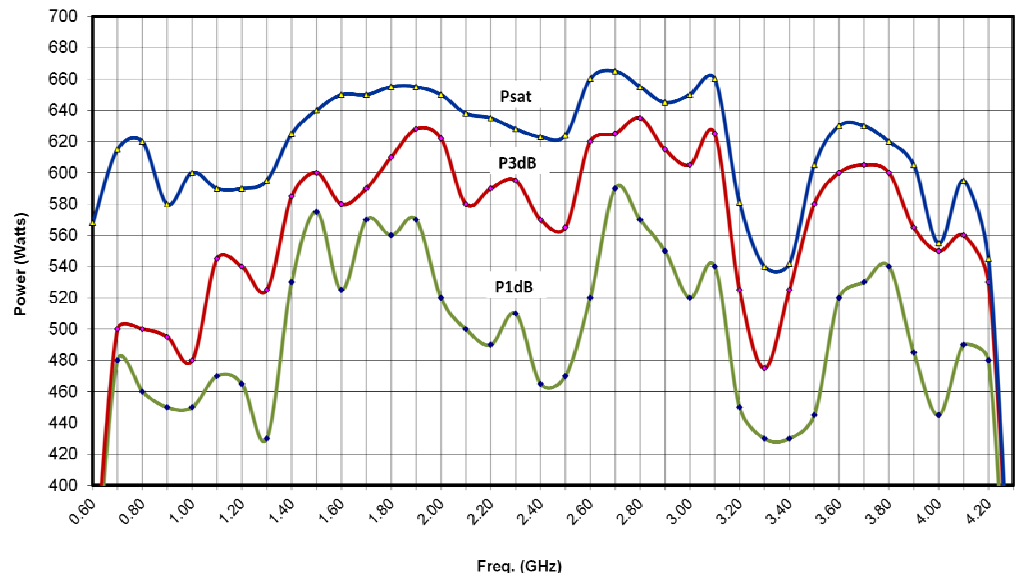
All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS232 hard-

wire 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 525S1G4A 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.

Model 525S1G4A TYPICAL POWER OUTPUT



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Specifications

RATED OUTPUT POWER: 525 watts minimum
INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum
POWER OUTPUT @ 3dB COMPRESSION: Nominal, 525 watts; Minimum, 475 watts
POWER OUTPUT @ 1dB COMPRESSION: Nominal, 450 watts; Minimum, 400 watts
FLATNESS: ±2.0 dB typical, ±2.5 dB maximum
FREQUENCY RESPONSE: 0.8-4.2GHz instantaneously
GAIN (at maximum setting): 57.2 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 500 watts
THIRD ORDER INTERCEPT POINT: 66 dBm typical
RF POWER DISPLAY: Digital, forward and reflected
PRIMARY POWER: 200-260 VAC, 50/60 Hz, single phase, 3000 watts

CONNECTORS:
RF Input Type N female, rear
RF Output Type 7/8 EIA 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: 136 kg (300 lbs)
SIZE (W x H x D): 50.3 x 127 x 61 cm (19.8 x 50 x 24 in)
EXPORT CLASSIFICATION: 3A001

Model Configurations

Model	Description
525S1G4AM1	See separate Specification Sheet
525S1G4AM2	Installed in 40U 19" rack