

Features

20S6G18A

- M2, M5
- 20 Watts CW
- 6GHz-18GHz

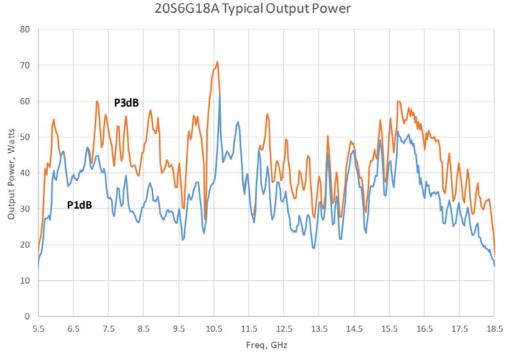
The Model 20S6G18A is a portable, selfcontained, air-cooled, broadband, Class A solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. The Model 20S6G18A, when used with a sweep generator, will provide a minimum of 20 watts of RF power instantaneously from 6 to 18 GHz. The 20 watt model can be expanded to 40 watts inside the same cabinet.

The Model 20S6G18A is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a graphic Liquid Crystal Display, menu assigned softkeys, a single rotary knob, and a dedicated power on/off switch to offer extensive control and status reporting capability. The display provides gain setting and reports of internal amplifier status. Special features include a gain control and input overdrive protection.

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 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 Model 20S6G18A is designed to have low spurious signals, linearity and is extremely load tolerant which enables it to be used in many RF applications such as: RF susceptibility testing, antenna/component testing, and communication technology testing. 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, UWB, WiMAX etc.

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.



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Specifications

RATED POWER OUTPUT: 20 watts minimum

POWER OUTPUT @ 3dB COMPRESSION: Nominal: 25 watts

Minimum: 20 watts

POWER OUTPUT @ 1dB COMPRESSION: Nominal: 22 watts Minimum: 15 watts

POWER GAIN FLATNESS: ±2.0 dB typical; ±3.0 dB maximum

FREQUENCY RESPONSE: 6-18 GHz instantaneously

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum, 0 dBm

POWER GAIN (at maximum setting): 43 dB minimum

GAIN ADJUSTMENT (Continuous Range): 10 dB minimum

INPUT IMPEDANCE: 50 ohms, VSWR 2.5:1 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.

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

HARMONIC DISTORTION: Minus 20 dBc maximum at 20 watts

THIRD ORDER INTERCEPT POINT: 49 dBm typical

PRIMARY POWER (selected automatically):

90-132, 180-264 VAC; 50/60 Hz, single phase; <700 watts maximum

CONNECTORS:

RF INPUT & OUTPUT: See Model Configurations

REMOTE INTERFACES:

IEEE-488	24 pin female
RS-232	9 pin Subminiature D
	(female)
RS-232 (Fiber-optic)	Type ST
USB 2.0	Туре В
Ethernet	RJ-45

SAFETY INTERLOCK: 15 Pin Subminiature D

COOLING: Forced air (self contained fans)

EXPORT CLASSIFICATION: 3A001

MODEL CONFIGURATIONS						
MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)		
20\$6G18A	Precision N female, rear	Precision N female, rear	36 kg (79 lbs)	50.3 x 29.5 x 54.6 cm 19.8 x 11.6 x 21.5 in		
20\$6G18AM2	Precision N female, front	Precision N female, rear	36 kg (79 lbs)	50.3 x 29.5 x 54.6 cm 19.8 x 11.6 x 21.5 in		
20\$6G18AM5		8A with enclosure rack mounting	26 kg (57 lbs)	48.3 x 26.7 x 54.6 cm 19 x 10.5 x 21.5 in		