



## 30/20S1G18B

- 30/20 Watts CW
- 0.7GHz–18GHz

### Features

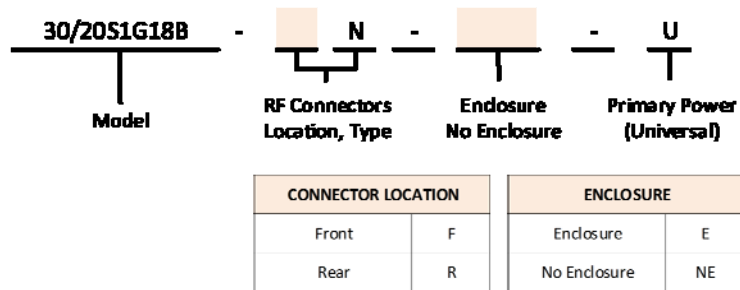
The Model 30/20S1G18B is a portable, self-contained, air-cooled, dual-band, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required.

This model is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The digital display on the front panel indicates control status and reports of internal amplifier status. All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet.

This model is designed to have low spurious signals, exhibit very good 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 are 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.

### Model Configurations



### Specifications, General

**INPUT FOR RATED OUTPUT:** 1.0 milliwatt maximum, 0 dBm

**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. See Application Note #27.

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

**SPURIOUS:** Minus 73 dBc typical

**CONNECTORS:**

See Model Configurations; RF In/Out are on the same panel

**REMOTE INTERFACES:**

**IEEE-488:** 24 pin female

**RS-232:** 9 pin subminiature D (female)

**RS-232 (Fiber-optic):** Type ST

**USB 2.0:** Type B

**Ethernet:** RJ-45

**SAFETY INTERLOCK:** 15 pin subminiature D

**COOLING:** Forced air (internal self-contained liquid)

**SIZE (W x H x D):**

**w/cabinet:** 50.3 x 34 x 62.2 cm; 19.8 x 13.4 x 24.5 in

**w/o cabinet:** 48.3 x 31.2 x 62.2 cm; 19.0 x 12.3 x 24.5 in

**WEIGHT:**

**w/cabinet:** 42 kg; 93 lbs

**w/o cabinet:** 31 kg; 68 lbs

**EXPORT CLASSIFICATION:** 3A001



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### 30/20S1G18B

- 30/20 Watts CW
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### Model 30/20S1G18B, 0.7–6.0GHz Band Selected

**RATED POWER OUTPUT:** 30 watts minimum

**POWER OUTPUT @ 3dB COMPRESSION:**

Nominal 35 watts; Minimum 26 watts

**POWER OUTPUT @ 1dB COMPRESSION:**

Nominal 30 watts; Minimum 22 watts

**POWER GAIN FLATNESS (0 dBm IN):**

±1.5 dB typical; ±2.0 dB maximum

**FREQUENCY RESPONSE:** 0.7–6.0 GHz instantaneously

**GAIN (at maximum setting):** 44 dB minimum

**THIRD ORDER INTERCEPT:** 50 dBm typical

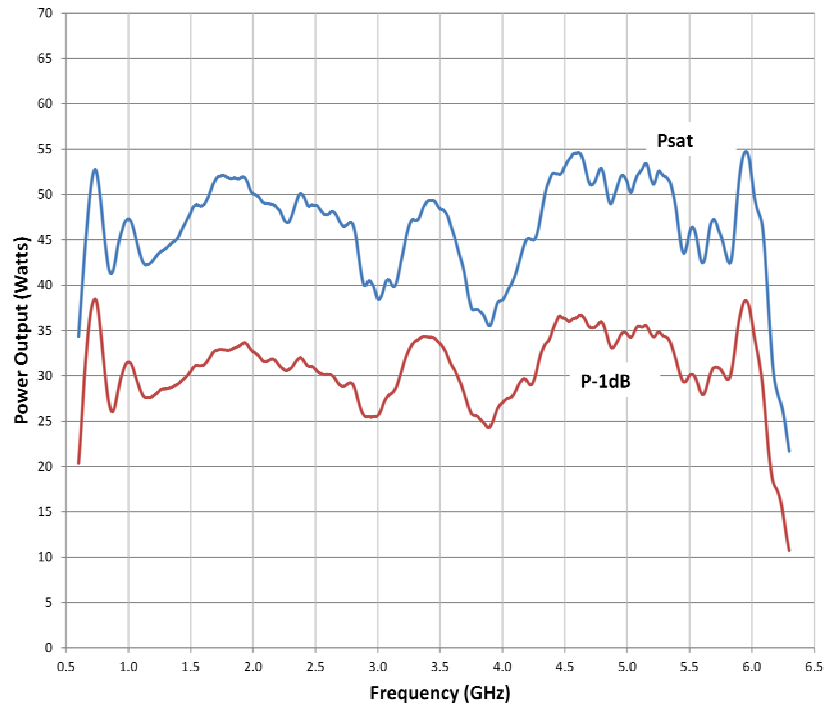
**NOISE FIGURE:** 10 dB typical

**HARMONIC DISTORTION:** Minus 20 dbc max at 30 watts (0.7-6.0 GHz)

**PRIMARY POWER (Selected Automatically):**

90-264 VAC, 50/60 Hz, single phase, 300 watts maximum

30/20S1G18B TYPICAL POWER OUTPUT WITH 0.7-6.0GHz BAND SELECTED



## 30/20S1G18B

- 30/20 Watts CW
- 0.7GHz–18GHz

### Model 30/20S1G18B, 6.0–18GHz Band Selected

**RATED POWER OUTPUT:** 20 watts minimum

**POWER OUTPUT @ 3dB COMPRESSION:**

Nominal 25 watts; Minimum 18 watts

**POWER OUTPUT @ 1dB COMPRESSION:**

Nominal 22 watts; Minimum 15 watts

**POWER GAIN FLATNESS (0 dBm IN):**

$\pm 2.0$  dB typical;  $\pm 3.0$  dB maximum

**FREQUENCY RESPONSE:** 6.0–18 GHz instantaneously

**GAIN (at maximum setting):** 44 dB minimum

**THIRD ORDER INTERCEPT:** 49 dBm typical

**HARMONIC DISTORTION:** Minus 20 dBc max @ 20W (6.0-18 GHz)

**PRIMARY POWER (Selected Automatically):**

90-264 VAC, 50/60 Hz, single phase, 600 watts maximum

30/20S1G18B TYPICAL POWER OUTPUT WITH 6.0–18.0GHz BAND SELECTED

