www.atecorp.com (800) 404-ATEC



40S6G18-L

- 40 Watts CW
- 6GHz-18GHz

Features

The Model 40S6G18-L is a portable, self-contained, liquid-cooled, broadband, Class A solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. The Model 40S6G18-L, when used with a sweep generator, will provide a minimum of 40 watts of RF power instantaneously from 6 to 18 GHz.

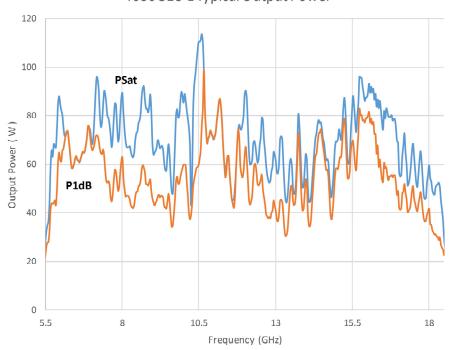
The Model 40S6G18-L is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a color LCD touch screen display to indicate the operate status and fault conditions if an overtemperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared. 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 ports are located on the back panel and positive control of local or remote operation is via the front panel of the amplifier.

The Model 40S6G18-L 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.

40S6G18-L Typical Output Power



AR RF/Microwave Instrumentation 160 School House Rd Souderton, PA 18964 215-723-8181

For an applications engineer call:800.933.8181

www.arworld.us



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40S6G18-L

• 40 Watts CW

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Specifications

RATED POWER OUTPUT: 40 watts minimum

POWER OUTPUT @ 3dB COMPRESSION:

Nominal: 45 watts Minimum: 35 watts

POWER OUTPUT @ 1dB COMPRESSION:

Nominal: 30 watts Minimum: 22 watts

POWER GAIN FLATNESS (0 dBm IN):

±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): 46 dB minimum

GAIN ADJUSTMENT (Continuous Range): 10 dB mini-

mum

INPUT IMPEDANCE: 50 ohms, VSWR 2.5:1 maximum

OUTPUT IMPEDANCE: 50 ohms, nominal

MISMATCH TOLERANCE: Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

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

HARMONIC DISTORTION: Minus 20 dBc maximum at 40 watts

THIRD ORDER INTERCEPT POINT: 52 dBm typical

PRIMARY POWER (selected automatically):

100-240 VAC; 50-60 Hz, single phase; <1200 watts

maximum

CONNECTORS:

RF INPUT & OUTPUT: See Model Configurations

REMOTE INTERFACES:

IEEE-488 24 pin female RS-232 9 pin Subminiature D

RS-232 (Fiber-optic) Type ST USB 2.0 Type B Ethernet RJ-45

SAFETY INTERLOCK: 15 Pin Subminiature D

SIZE (WxHxD): (19" 4U Rack)

w/cabinet: 50.2 x 20.6 x 63.2 cm; 19.8 x 8.1 x 24.9

in

w/o cabinet: 48.3 x 18.0 x 62.5 cm; 19.0 x 7.1 x 24.6

in

WEIGHT:

w/cabinet: 35 kg; 77 lbs w/o cabinet: 25.9 kg; 57 lbs

COOLING: Forced air (internal self-contained liquid)

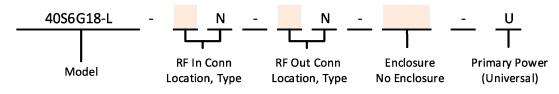
ACOUSTICAL NOISE @ 1 METER:

Front: 58 dBA
Side: 65 dBA
Rear: 62 dBA

ENVIRONMENTAL:

Operating Temperature: 5°C / +40°C
Operating Altitude: Up to 2000M
Storage Temperature: -10°C / +60°C
Shock and vibration: Normal Truck Transport

EXPORT CLASSIFICATION: 3A001



CONNECTOR LOCATION	
Front	F
Rear	R

ENCLOSURE	
Enclosure	E
No Enclosure	NE

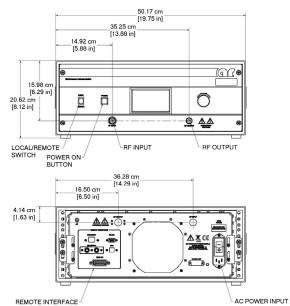
• 40 Watts CW

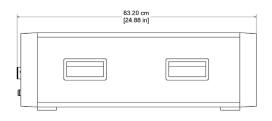
40S6G18-L

• 6GHz-18GHz

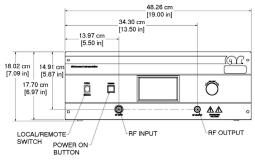
Specifications

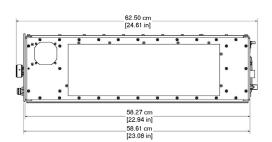


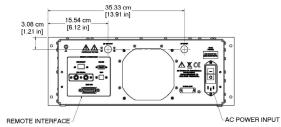




40S6G18-L with Cabinet







40S6G18-L without Cabinet