

75S6G18C

6.0 GHz - 18.0 GHz, Class A Solid State Amplifier



MAIN FEATURES

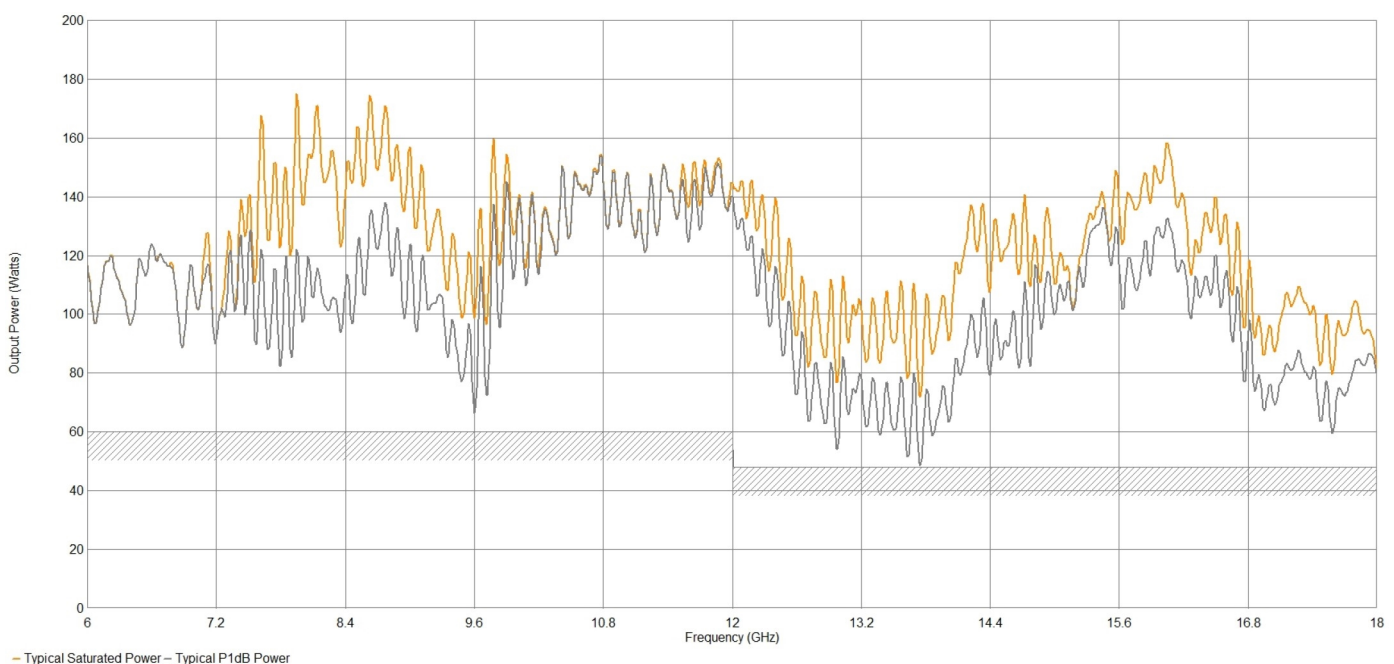
- **Class A Operation**
- **Touch Screen Display**
- **100% Mismatch Tolerant**
- **Scalable Modular Construction**
- **Ethernet, USB, GPIB, Fiber-optic & RS-232 Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated Immunity (ISO, IEC, MIL) Communication, CDMA, W-CDMA, TDMA, GSM, UWB**

The Model 75S6G18C is a solid-state, Class A design, self-contained, air-cooled, broadband power amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. It will provide a minimum of 75 W across its operating bandwidth of 6.0 - 12.0 GHz and 65 W from 12.0 - 18.0 GHz. Protection from input overdrive beyond 0 dBm is provided as well as protection from various failure conditions including over-temperature and power supply faults.

A front panel display indicates the operational status and fault conditions. All amplifier control functions, and status indications are available remotely using GPIB/IEEE-488, RS-232, fiber-optic serial, USB, or Ethernet. Interface connectors are located on the back panel. Local and remote operation is managed by a switch on the front panel.

This is a multiple purpose amplifier. The low level of spurious signals and linearity make it ideal for use as a driver in testing wireless and communication components and subsystems. By covering such a wide bandwidth, it 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.



Technical Specifications

Frequency Range	6.0 - 18.0 GHz
Rated Output Power	6-12GHz - 75W (min) - 110W (typ)
Rated Output Power	12-18GHz - 65W (min) - 100W (typ)
Power Output @ 1dB Compression	6-12GHz - 60W (min) - 80W (typ)
Power Output @ 1dB Compression	12-18GHz - 48W (min) - 70W (typ)
Input for Rated Output	0dBm (1mW)
Small Signal Gain	50 dB
Gain Variation (max) ±	3.5 dB
Gain Control Adjust When Below P1dB	20 dB
Harmonics @ P1dB (min)	-20 dBc
Harmonics @ P1dB (typ)	-25 dBc
Spurious	-75 dBc
Input VSWR	2:1 (max)
Output VSWR	2.5:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	54 dB
Noise Figure	10 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any Phase (No Foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	60 dBA
Supply Frequency	47 to 63 (Hz)
Supply Voltage	100 to 240 VAC
Supply Power (max)	1.2 KVA

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-N Female
Safety Interlock	15-Pin Subminiature D Female
Dimensions (With Cabinet) (W x H x D)	(4U) - 50.2 x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in)
Weight (With Cabinet)	35 kg (77 lbs)
Dimensions (No Cabinet) (W x H x D)	(4U) - 48.3 x 18.8 x 63.8 cm (19.0 x 7.0 x 25.1 in)
Weight (No Cabinet)	25.9 kg (57 lb)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / RS-232 (fibre optic) / USB 2.0 / Ethernet

Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M
Shock and Vibration	Normal Truck Transport

Regulatory Compliance (CE)

EMC	EN 61326-1
Safety	UL 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	3A001

Ordering Information

75S6G18C	-	-	N	-	-	N	-
Model		RF IN Conn		RF OUT Conn		Enclosure	
		Location, Type		Location, Type		No Enclosure	

Connector	
Front	F
Rear	R

Enclosure	
Enclosure	E
No Enclosure	NE