

250S6G18C

6.0 GHz - 18.0 GHz, Class A Solid State Amplifier



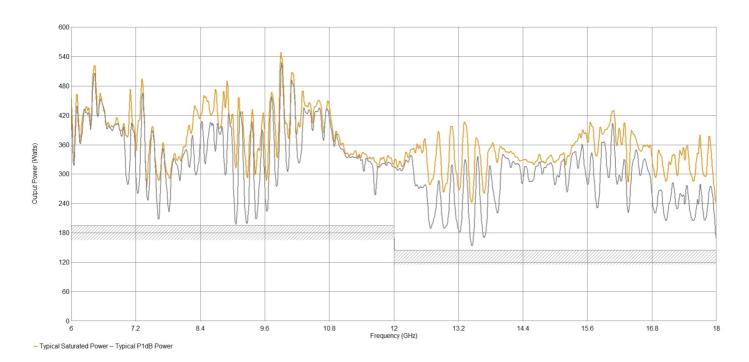
- MAIN FEATURES
- Class A Operation
- Touch Screen Display
- 100% Mismatch Tolerant
- Scalable Modular Construction
- Ethernet, USB, GPIB, Fiber-optic & RS-232
 Remote Interface
- 3 Year Warranty
- Applications: Radiated Immunity (ISO, IEC, MIL) Communication, CDMA, W-CDMA, TDMA, GSM, UWB

The Model 250S6G18C 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 250 W across its operating bandwidth of 6.0 - 12.0 GHz and 200 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 - 250W (min) - 300W (typ)	
Rated Output Power	12-18GHz - 200W (min) - 250W (typ)	
Power Output @ 1dB Compression	6-12GHz - 195W (min) - 250W (typ)	
Power Output @ 1dB Compression	12-18GHz - 145W (min) - 200W (typ)	
Input for Rated Output	0dBm (1mW)	
Small Signal Gain	55 dB	
Gain Variation (max) ±	3.5 dB	
Gain Control Adjust When Below P1dB	20 dB	
Harmonics @ P1dB (min)	-17 dBc	
Harmonics @ P1dB (typ)	-20 dBc	
Spurious	-75 dBc	
Input VSWR	2:1 (max)	
Output VSWR	2.5:1 (typ)	
Output Impedance	50 Ohm	
3rd Order Intercept Point	59 dB	
Noise Figure	10 dB	
Modulation Formats	AM, FM, PM, ODFM	
Maximum Input Power (no damage)	10 dBm	
Output VSWR Tolerance	6:1 (Foldback @ 50%)	
Stability	Unconditional	

General Specifications

Acoustic Noise (measured @ 1 M)	68 dBA
Supply Frequency	47 to 63 (Hz)
Supply Voltage	200 to 240 VAC
Supply Power (max)	4.5 KVA

Mechanical Specifications

RF Input Connector	Type-N Female	
RF Output Connector	WR650 (Rear Panel)	
RF Sample Port Connectors	Optional, Type-N Female, (coupling factor 56 dB typical)	
Safety Interlock	15-Pin Subminiature D Female	
Dimentions (With Cabinet) (W x H x D)	(16U Rack) - 57.4 x 96.0 x 95.5 cm (22.6 x 37.8 x 37.6 in)	
Weight (With Cabinet)	117 kg (258 lbs)	
Dimentions (No Cabinet) (W x H x D)	48.3 x 71.0 x 99.6 cm (19.0 x 28.0 x 39.2 in)	
Weight (No Cabinet)	88 kg (194 lb)	
Cooling System	Forced air (self contained fans)	
Com. Interface	IEEE-488 / RS-232 / RS-232 (fibre optic) / USB 2.0 / Ethernet	



Environmental Specifications

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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





RF Sample P

Regulatory Compliance (CE)

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

Ordering Information

 250S6G18C
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 Model
 RF IN Conn
 Location, Type

Connector	
Front	F
Rear	R

R - WRD650

RF OUT Conn

Location, Type

Enclosure		
Enclosure	E	
No Enclosure	NE	

Enclosure No Enclosure

RF Sample Ports	
SPF	
SPR	

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