

2000W1000F

80 MHz - 1000 MHz, Class A Solid State Amplifier



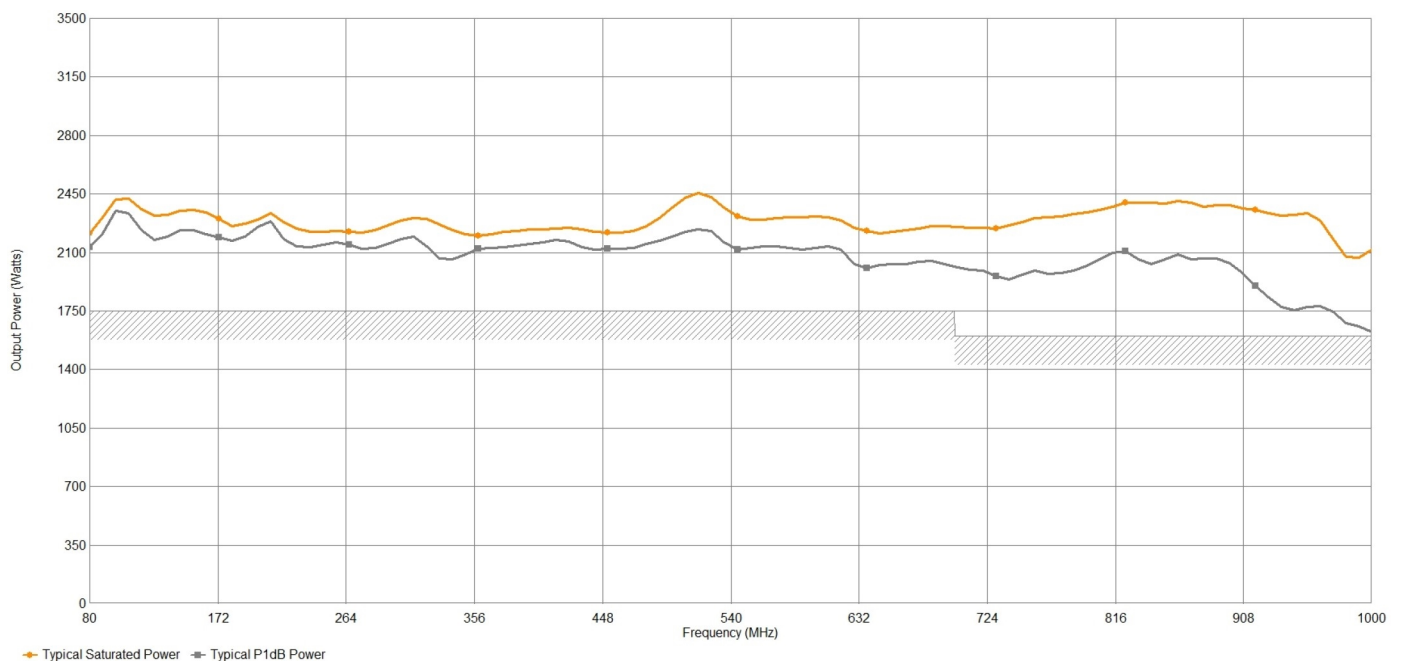
MAIN FEATURES

- **Class A Operation**
- **Touch Screen Display**
- **100% Mismatch Tolerant**
- **Scalable Modular Construction**
- **Ethernet, USB, GPIB, RS-232 Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL), Telecom Component Test and Aerospace & Defence**

The Model 2000W1000F is a self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. When used with an RF sweep generator, nominally provides over 2000 watts of RF power and a minimum 1600 watts of P1dB power.

The amplifier 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 and a single rotary knob to offer status reporting and control capability. The display provides operational presentation of Forward Power and Reflected Power plus amplifier status. All amplifier control functions, and status indications are available remotely in GPIB/IEEE-488 format and RS-232 hardware and fiber optic, USB and Ethernet. The bus 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 export classification for this equipment is EAR99. 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	80 - 1000 MHz
Rated Output Power	2000W (min) - 2200W (typ)
Power Output @ 1dB Compression	80-700MHz - 1750W (min) - 1850W (typ)
Power Output @ 1dB Compression	700 -1000MHz - 1600W (min)
Input for Rated Output	0dBm (1mW)
Small Signal Gain	63 dB
Gain Variation @ 1dBc (max)	+/- 1.5dB (typ) +/- 2.0dB (max)
Gain Control Adjust When Below P1dB	20 dB
Harmonics @ P1dB (min)	-20 dBc
Spurious (typ)	-70 dBc
Input VSWR	1.3:1 (typ) - 1.5:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	70 dB
Noise Figure (typ)	8 dBm
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	13 dBm
Output VSWR Tolerance	Infinite any Phase (No Foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 m)	63 dBA
Supply Frequency	47 to 63 (Hz)
Three Phase 5 Wire WYE Low Line	200 to 240 VAC
Three Phase 5 Wire WYE	380 to 415 VAC
Three Phase 4 Wire Delta	200 to 240 VAC
Supply Power (max)	10 KVA

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-1-5/8 Female (Rear Panel)
RF Sample Port Connectors	Type-N Female, (coupling factor 64 dB typical)
Safety Interlock	15-Pin Subminiature D Female
Dimensions (With Cabinet) (W x H x D)	(40U) 56.1 x 175.3 x 97.6 cm (22.1 x 69 x 38.4 in)
Weight (With Cabinet)	218 kg (480 lbs)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / RS-232 (fiber 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	No Licence Required

Ordering Information

2000W1000F	-	N	-	R	-	158	-		-	
Model		RF IN Conn Location, Type		RF OUT Conn Location, Type		Primary Power		RF Sample Ports		
CONNECTOR LOCATION		PRIMARY POWER		RF SAMPLE PORTS						
Front	F	200-240 VAC	LV	Front	SPF					
Rear	R	380-415 VAC	HV	Rear	SPR					

