



<u><b>IFI Solid State Amplifier Specifications</b></u>	
<b>IFI Model:</b>	<b>SMC2000-FLEX</b>
Frequency Range:	80-1000 MHz
Rated Power:	2000 Watts minimum Using 2 existing SMC1500 RF Drawers
Gain @ Rated Power:	63 dB
PldB Linear Power:	1500 Watts minimum
Prime Power:	208 VAC +/-10%, 50/60 Hz, Three Phase*
Input/Output Impedance:	50 ohms (VSWR 2.0:1)
RF Input/Output Connectors:	Type N Female Front Panel / 7/16" Female Rear Panel
Temperature:	0° to 50° C
Non-operating Temp:	-20° to 70° C (50,000 feet max)
Humidity:	95% without condensation
Altitude:	10,000 feet
Cooling System:	Air cooled, self contained
Modulation:	AM/FM/Pulse
Configuration:	Rack Integrated
Spurious:	-50dBc
Harmonics:	-20dBc nominal @ Linear Power
Features:	<p>VSWR Protection against any output mismatch; will operate without damage or oscillation against any magnitude and phase of source and load impedance.</p> <p>* Alternate Prime Power (specify at time of order)</p> <p>* GPIB IEEE 488, USB, Ethernet &amp; RS232 Remote Control</p> <p>Forward RF Sample Port on the Front Panel, N Female (Specify front or rear at time of order)</p> <p>Internal Pre-amplification to obtain rated output power with an input level of 0dBm or less.</p> <p>Local/Remote Gain Control</p> <p>RF Input/Output Connectors on the Front Panel (Specify front or rear at time of order)</p> <p>Internal Systems Diagnostics</p> <p>ALC, Automatic Leveling Control</p> <p>Total/Operate Elapsed Time Metering in hours</p> <p>RF Safety Interlock</p> <p>Forward/Reflected Power Indication simultaneously on Front Panel display</p>
  <p>Color Touchscreen</p>	

**Amplifiers are supplied with an AC line cord to accommodate the power source; an operation & maintenance manual; and amplifier performance test data.**

**The Front Panel is standard for RF Connectors and RF Sample Port. If this is not convenient, please advise the location during the time of order at no additional charge.**  
**We will be happy to serve you. Thank you!**

**\*GPIB IEEE-488, RS232,USB and Ethernet Remote Control is standard.**

If this is not convenient, please review & advise the GPIB option at the time of order.

**IFI SOLID STATE AMPLIFIERS**

- Wide instantaneous frequency range
- Backlit LCD display
- Total/Operate Elapsed Time Metering

- Self-diagnostic circuitry
- VSWR protection
- Safety Requirement of IEC-348
- Unconditionally stable against load mismatches
- Forward /Reflected Power Indication
- IEEE 488 GPIB & RS232 Remote Control
- RF Door Safety Interlock
- Air-cooled (Integrated Forced Air – self-contained)
- Modulation, AM, FM & PULSE
- Open Circuit and Short Circuit Protection
- Front Panel Controls and Indicators
- Standby/Operate
- EMI Filter built-in

**All amplifier modes of operation, and features are simultaneously available in the front panel display to provide extensive control & status reporting capability. These items are as follows:**

- Forward Power
- Reflected Power
- Power supply voltages
- Power supply currents
- Operating hours
- PWON & PWOFF (POWER ON / POWER OFF)
- STANDBY & OPERATE
- FAULT RESET
- RF Sample Port
- LOCAL/REMOTE GAIN CONTROL
- ALC SELECT, ALC OFF, ALC INTERNAL & ALC EXTERNAL