





Instruments For Industry
The Power Of Choice

Microwave
AMPLIFIERS

S188 Series Solid State Microwave Power Amplifiers

8.0 – 18.0 GHz • 5 Watts to 125 Watts

Standard Features for IFI S188 Series Solid State Amplifiers	
Standard Features:	VSWR Reflected Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance, Open & Short Circuit Protection.
	* Alternate Prime Power (specify at time of order)
	GPIB IEEE 488 & RS232 Remote Control
	RF Sample Port on the Front Panel, 112R for rear panel
	Internal Pre-amplification to obtain rated output power with an input level of 0 dBm or less.
	Gain Control Local & Remote, 30dB range
	RF Input/Output Connectors on the Front Panel, 118R for rear panel
	Internal Systems Diagnostics & Status Indicators
	Total/Operate Elapsed Time Metering in hours
	RF Safety Interlock
	Forward/Reflected Power Indication simultaneously on Front Panel display

IFI S188 Series Solid State Amplifier Specifications	
Frequency Range:	As Specified in Model Table
Rated Output Power:	As Specified in Model Table
Gain @ Rated Power:	As Specified in Model Table
Prime Power:	As Required (Some are listed below)
Input/output Impedance:	50 ohms
RF Input/ Sample Connectors:	Type N Female, unless specified otherwise
RF Output Connector:	Type N Female Other connectors available by request or specification
Input VSWR:	2.0:1
Output VSWR:	2.5:1
Operating Temp:	0° to 50° C
Non-operating Temp:	-40° 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 Mount as specified in Model Table, or Rack/Cabinet Integrated
Spurious Outputs:	<-60 dBc nominal
Harmonics:	-20dBc minimum @ Linear Power

Standard Prime Powers:	
100, 115, 120 VAC ±10% 50/60 Hz, single phase	
220, 230, 240VAC ±10% 50/60 Hz, single phase	
120/208 or 200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta power is available	
200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta power is available	
Special Prime Powers other then listed are subject to availability	

Some Available Options for IFI S188 Series Solid State Amplifiers	
Option 110-1E:	GPIB IEEE-488 RS232 and Ethernet Remote Control
Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control
Option 110-3:	GPIB IEEE-488 and RS 485 Remote Control
Option 113:	Chassis slides for a 19" rack mounting
Option 118A:	RF Input On Front Output On Rear
Option 118B:	RF Input On Rear Output On Front

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903 South Second Street • Ronkonkoma, NY 11779 • 631-467-8400 • 631-467-8558 • sales@ifi.com • www.ifi.com



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Outline Configurations:

