The Power Of Choice

AMPLIFIERS

S188 Series Solid State Microwave Power Amplifiers 8.0 – 18.0 GHz • 5 Watts to 125 Watts

Instruments for Industry, S188 Series Solid State amplifiers are state-of-the-art amplifiers and provide outstanding RF performance. The S188 Series amplifiers operate over the frequency range from 8.0-18.0 GHz and can be supplied at power levels from 5 watts to 125 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the S188 Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site. They feature heavy-duty aluminum chassis construction with a modular approach for easy access and service.

Operation safety and ease of use are paramount in *IFI* product designs. The IFI S188 Series include a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and the system level. In addition, the S188 series includes a state-of-the-art interface that is sophisticated, comprehensive, and yet simple to use.

The backlit LCD screen shows forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available in the amplifier front panel display as well as over the remote bus. Selection switches allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For computer automation both an RS-232 and IEEE interface are provided as standard. To meet individual application needs, the S188 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the S188 series amplifiers are the perfect system for your applications.

Features

- Solid State Design
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Backlit screen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface & RS232 Remote



Models & General Specifications:							
Model	Frequency	Rated Power	P1dB Power	Gain	Mains	Weight	Size
Number	Range (GHz)	(watts minimum)	(watts minimum)	(dB min)	(kVA)	(Pounds)	(Inches)
S188-5	8.0-18.0	5	5	37	.10	25 Lbs	5.25" H x 19" W x 24" D
S188-10	8.0-18.0	10	8	40	.10	28 Lbs	5.25" H x 19" W x 24" D
S188-20	8.0-18.0	20	15	43	.20	32 Lbs	5.25" H x 19" W x 24" D
S188-25	8.0-18.0	25	18	44	.25	36 Lbs	7.00" H x 19" W x 24" D
S188-40	8.0-18.0	40	30	46	.30	40 Lbs	8.75" H x 19" W x 24" D
S188-50	8.0-18.0	50	35	47	.40	50 Lbs	10.5" H x 19" W x 25" D
S188-75	8.0-18.0	75	60	49	.60	55 Lbs	2x 10.5" H x 19" W x 25" D
S188-100	8.0-18.0	100	70	50	0.8	60 Lbs	2x 10.5" H x 19" W x 25" D
S188-125	8.0-18.0	125	75	52	1.2	80 Lbs	2x 10.5" H x 19" W x 25" D

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Microwave

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Standard	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.				
i catul cs.	* 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				

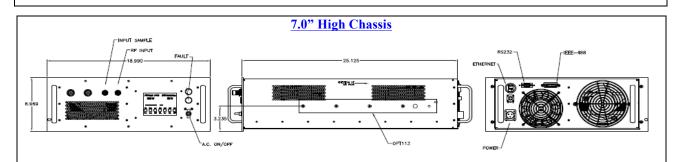
Standard Prime Powers:		
100, 115, 120 VAC ±10% 50/60 Hz, single phase		
220, 230, 240VAC ±10% 50/60 Hz, single phase		
120/208 or 200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta power is available		
200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta power is available		
Special Prime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

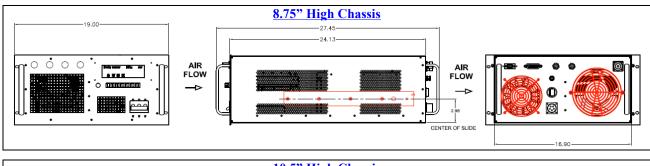
Some Available Options for IFI S188 Series Solid State Amplifiers		
Option 110-1E:	GPIB IEEE-488 RS232 and Ethernet Remote Control	
Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control	
Option 110-3	GPIB IEEE-488 and RS 485 Remote Control	
Option 113:	Chassis slides for a 19" rack mounting	
Option 118A: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

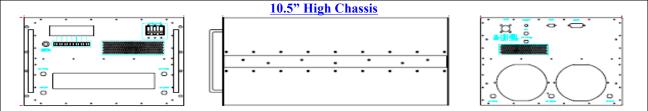
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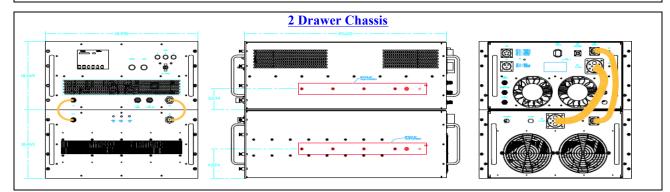
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