



### 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 Number	Frequency Range (GHz)	Rated Power (watts minimum)	P1dB Power (watts minimum)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (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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Standard Features for IFI S188 Series Solid State Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR protection, remote control options, gain control, and safety interlocks.

IFI S188 Series Solid State Amplifier Specifications

Table with 2 columns: Specification and Value. Includes frequency range, output power, gain, impedance, connectors, VSWR, operating temperature, humidity, altitude, cooling system, modulation, configuration, spurious outputs, and harmonics.

Standard Prime Powers:

Table listing standard prime power options: 100, 115, 120 VAC; 220, 230, 240VAC; and three-phase options (120/208, 200/220/230/240VAC).

Some Available Options for IFI S188 Series Solid State Amplifiers

Table listing optional features: Option 110-1E (Ethernet remote control), Option 110-2 (RS 422 remote control), Option 110-3 (RS 485 remote control), Option 113 (chassis slides), Option 118A (RF input/output locations), and Option 118B (RF input/output locations).



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#### Outline Configurations:

