



S31 Series Solid State Microwave Power Amplifiers

0.8 – 3.0 GHz • 5 Watts to 500 Watts

Instruments for Industry, S31 Series Solid State amplifiers are state-of-the-art amplifiers and provide outstanding RF performance. The S31 Series amplifiers operate over the frequency range from 0.8-3.0 GHz and can be supplied at power levels from 5 watts to 500 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the S31 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 S31 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 S31 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 S31 Series amplifiers can be easily customized with other options. With this capability and its reliable elegant design, the S31 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)
S31-5	0.8-3.0	5	5	37	.10	30 Lbs	5.25" H x 19" W x 24" D
S31-10	0.8-3.0	10	8	40	.10	33 Lbs	5.25" H x 19" W x 24" D
S31-20	0.8-3.0	20	15	43	.20	35 Lbs	5.25" H x 19" W x 24" D
S31-25	0.8-3.0	25	20	44	.25	37 Lbs	5.25" H x 19" W x 24" D
S31-40	0.8-3.0	40	30	46	.30	45 Lbs	5.25" H x 19" W x 24" D
S31-50	0.8-3.0	50	40	47	.40	60 Lbs	7.00" H x 19" W x 24" D
S31-75	0.8-3.0	75	60	49	.60	75 Lbs	7.00" H x 19" W x 24" D
S31-100	0.8-3.0	100	80	50	0.8	80 Lbs	8.75" H x 19" W x 24" D
S31-150	0.8-3.0	150	130	52	1.2	100 Lbs	8.75" H x 19" W x 24" D
S31-200	0.8-3.0	200	150	53	1.5	120 Lbs	10.5" H x 19" W x 25" D
S31-250	0.8-3.0	250	200	54	2.0	200 Lbs	2x 10.5" H x 19" W x 25" D
S31-300	0.8-3.0	300	250	55	2.5	220 Lbs	2x 10.5" H x 19" W x 25" D
S31-400	0.8-3.0	400	350	56	3.0	450 Lbs	Rack Integrated
S31-500	0.8-3.0	500	450	57	4.0	500 Lbs	Rack Integrated



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Standard Features for IFI S31 Series Solid State Amplifiers

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

IFI S31 Series Solid State Amplifier Specifications

Table with 2 columns: Specification and Value. Includes frequency range, power ratings, gain, impedance, and environmental conditions.

Standard Prime Powers:

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

Some Available Options for IFI S31 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 (rack mounting), Option 118A (RF input/output), and Option 118B (RF input/output).



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Outline Configurations:



