



SMX Series Solid State Amplifiers

10KHz - 1000MHz • 10 Watts to 1000 Watts Minimum Rated Power

Instruments for Industry, SMX-series Amplifiers provide outstanding RF performance. These products are available in a wide range of power levels from 10 watts to 1000 watts in the 10KHz – 1000 MHz frequency range. These state-of-the-art solid-state power amplifiers are specifically designed for laboratory and all testing applications.

IFI RF amplifiers are very conservatively designed to operate below maximum ratings for ruggedness and long term reliability. Sixth generation LDMOS Transistors provide reliable brute-power performance at frequencies up to 1000MHz.

Our RF power amplifiers feature individually shielded aluminum assemblies for the module level. This concept of a shielded modular design minimizes internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

From the ground up, the “SMX-SERIES” products are structurally engineered to withstand operation in mechanically hostile environments. Ruggedized versions are available for applications that will be exposed to very harsh environments.

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 (MHz)	Rated Power (Watts) Minimum	P1dB Power Watts Minimum	Gain (dB) Minimum	KVA	Weight In Pounds	Size In Inches
SMX10	10-1000	10	10	40	.1KVA	35 Lbs	5.25" H x 19" W x 24" D
SMX25	10-1000	25	25	44	.2KVA	40 Lbs	5.25" H x 19" W x 24" D
SMX50	10-1000	50	50	47	.4KVA	75 Lbs	7.00" H x 19" W x 24" D
SMX100	10-1000	100	80	50	.8KVA	80 Lbs	7.00" H x 19" W x 24" D
SMX150	10-1000	150	120	52	1.0KVA	120 Lbs	7.00" H x 19" W x 24" D
SMX200	10-1000	200	150	53	1.5KVA	150 Lbs	2x 10.5" H x 19" W x 27" D
SMX250	10-1000	250	200	54	2.0KVA	170 Lbs	2x 10.5" H x 19" W x 27" D
SMX300	10-1000	300	250	55	2.5KVA	180 Lbs	2x 10.5" H x 19" W x 27" D
SMX400	10-1000	400	300	56	3.0KVA	200 Lbs	Rack Integrated
SMX500	10-1000	500	400	57	4.0KVA	250 Lbs	Rack Integrated
SMX1000	10-1000	1000	800	60	8.0KVA	750 Lbs	Rack Integrated



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Standard Features for IFI SMX Series Solid State Amplifiers

Table with 2 columns: Standard Features, Description. Features include VSWR protection, alternate prime power, GPIB/RS232 control, RF sample port, pre-amplification, gain control, RF connectors, diagnostics, and interlock.

IFI SMX Series Solid State Amplifier Specifications

Table with 2 columns: Specification, 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, 240 VAC; and three-phase options (120/208, 200/220/230/240 VAC).

Some Available Options for IFI SMX Series Solid State Amplifiers

Table listing optional features: Option 110-1E (GPIB/Ethernet control), Option 110-2 (GPIB/RS422 control), Option 110-3 (GPIB/RS485 control), Option 113 (19" rack mounting), Option 118A (RF front/rear), Option 118B (RF rear/front).

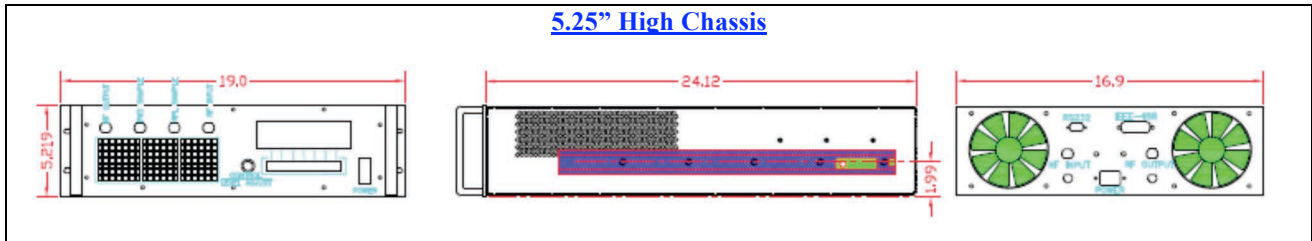


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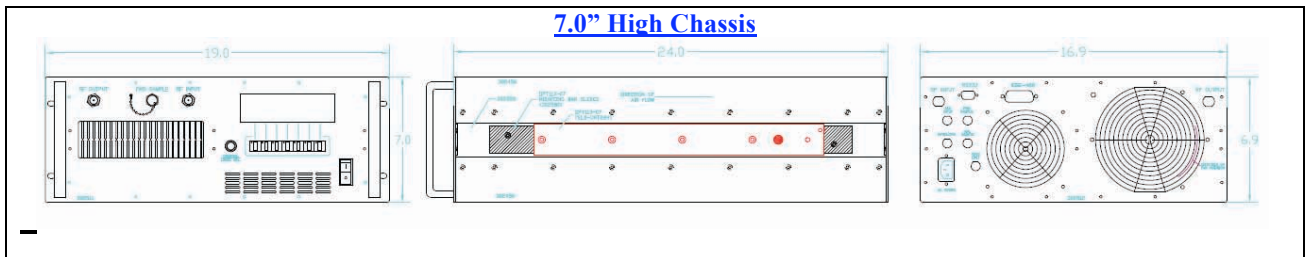
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Outline Configurations:

5.25" High Chassis



7.0" High Chassis



2x 10.5"H Drawer Chassis Configuration

