



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.

<p>Features</p> <ul style="list-style-type: none"> • 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	0.1-1000	10	10	40	.1KVA	35 Lbs	5.25" H x 19" W x 24" D
SMX25	0.1-1000	25	25	44	.2KVA	40 Lbs	5.25" H x 19" W x 24" D
SMX50	0.1-1000	50	50	47	.4KVA	75 Lbs	7.00" H x 19" W x 24" D
SMX100	0.1-1000	100	80	50	.8KVA	80 Lbs	7.00" H x 19" W x 24" D
SMX150	0.1-1000	150	120	52	1.0KVA	120 Lbs	7.00" H x 19" W x 24" D
SMX200	0.1-1000	200	150	53	1.5KVA	150 Lbs	2x 10.5" H x 19" W x 27" D
SMX250	0.1-1000	250	200	54	2.0KVA	170 Lbs	2x 10.5" H x 19" W x 27" D
SMX300	0.1-1000	300	250	55	2.5KVA	180 Lbs	2x 10.5" H x 19" W x 27" D
SMX400	0.1-1000	400	300	56	3.0KVA	200 Lbs	Rack Integrated
SMX500	0.1-1000	500	400	57	4.0KVA	250 Lbs	Rack Integrated
SMX1000	0.1-1000	1000	800	60	8.0KVA	750 Lbs	Rack Integrated



SMX Series Solid State Amplifiers

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

Standard Features for IFI SMX Series Solid State Amplifiers

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

IFI SMX 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, 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 (remote control), Option 110-2 (remote control), Option 110-3 (remote control), Option 113 (chassis slides), Option 118A (RF ports), and Option 118B (RF ports).

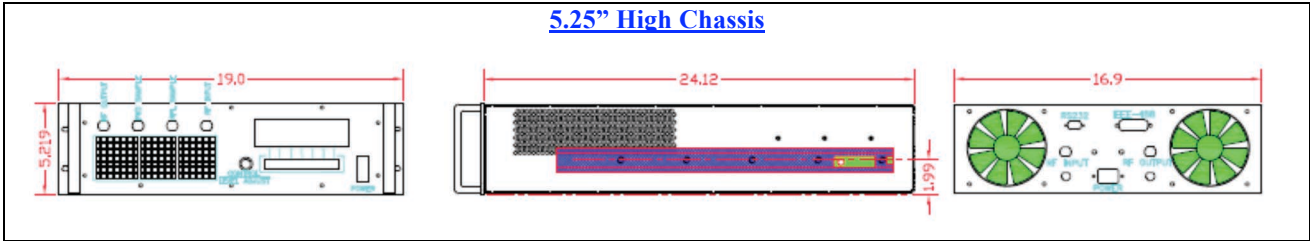


SMX Series Solid State Amplifiers

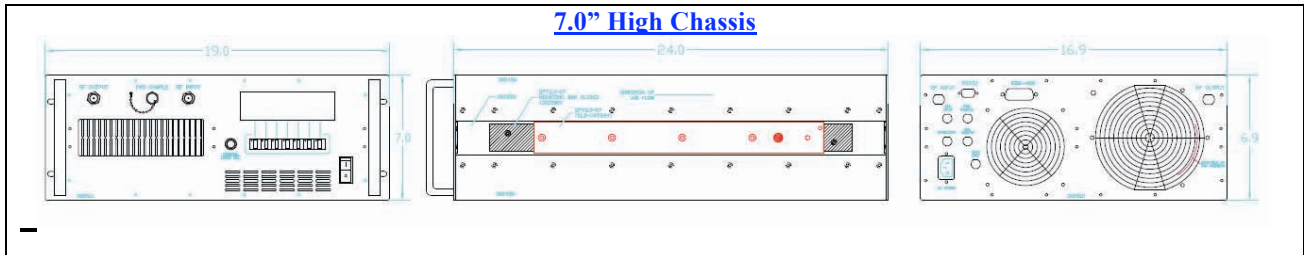
10KHz - 1000MHz • 10 Watts to 1000 Watts Minimum Rated Power

Outline Configurations:

5.25" High Chassis



7.0" High Chassis



2x 10.5"H Drawer Chassis Configuration

