



T-2000 Series High Power TWT Microwave Power Amplifiers

1.0 – 18 GHz • 2000 watts, Minimum Rated Power

Instruments for Industry, T-2000 Series Amplifiers provide outstanding RF performance. Our “T-2000 Series” products are a mature design but incorporate the latest features with respect to control and monitoring. These amplifiers are “State of the Art”; have field proven reliability and unsurpassed performance as the best in the industry. These products are available in a wide range of frequency bands from 1GHz-18GHz at 2000 watts.

Operation safety and ease of use are paramount in IFI product designs. The IFI T-2000 Series include a full complement of RF and hardware protection systems including high VSWR, over-current and voltage protection as well as redundant thermal and airflow sensors to prevent the TWT from overheating. In addition, the T-2000 series includes a state-of-the-art interface that is sophisticated, comprehensive, but yet simple to use. Our amplifiers feature modular construction and this concept of modular design minimizes internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

The backlit LCD screen shows forward/reverse power indication, system status and self-diagnostic information. All the amplifier 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-488 interface are included. To meet individual application needs, the T-2000 Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T-2000 series amplifiers are the perfect amplifier for your microwave needs. IFI offers different size packages and configurations to best suit your application. A product and design built to last!

IFI RF Power Amplifier Features:

- Instantaneous Broadband Frequency range
- Modular Design Construction
- Rugged Construction & High Reliability
- Backlit LCD Display
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface, RS232
- Solid State Power Supply



Models & General Specifications:

Model Number	Frequency Range (GHz)	Rated Power (watts minimum)	P1dB Power (nominal)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
T21-2000	1.0-2.0	2000	1000	63	15.0	1200	Rack Integrated
T251-2000	1.0-2.5	2000	1000	63	15.0	1200	Rack Integrated
T42-2000	2.0-4.0	2000	1000	63	15.0	1200	Rack Integrated
T7525-2000*	2.5-7.5	2000	1000	63	18.0	1200	Rack Integrated
T84-2000*	4.0-8.0	2000	1000	63	18.0	1200	Rack Integrated
T186-2000	6.0-18.0	2000	1000	63	18.0	1200	Rack Integrated
T188-2000	7.5-18.0	2000	1000	63	18.0	1200	Rack Integrated
T128-2000	8.0-12.4	2000	1000	63	18.0	1200	Rack Integrated
T1812-2000	12.0-18.0	2000	1000	63	18.0	1200	Rack Integrated

*Over the majority of the band



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Standard Features for IFI T-2000 Series TWT Amplifiers

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

Specifications:

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

Standard Prime Powers:

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

Special Prime Powers other than listed are subject to availability

Some Available Options for IFI T-2000 Series TWT Amplifiers

Table listing optional features: Option 103 G/D (VSWR protection), Option 110-1E (remote control), Option 110-2 (remote control), Option 110-3 (remote control), Option 118F or R (RF connections), and Option 123F or R (sample port).

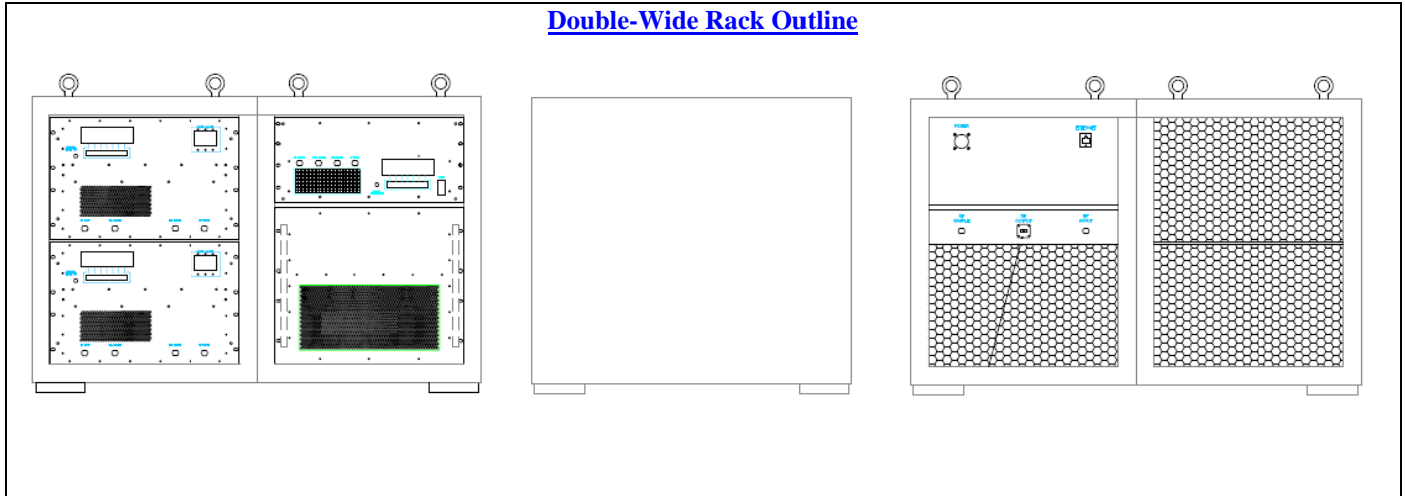


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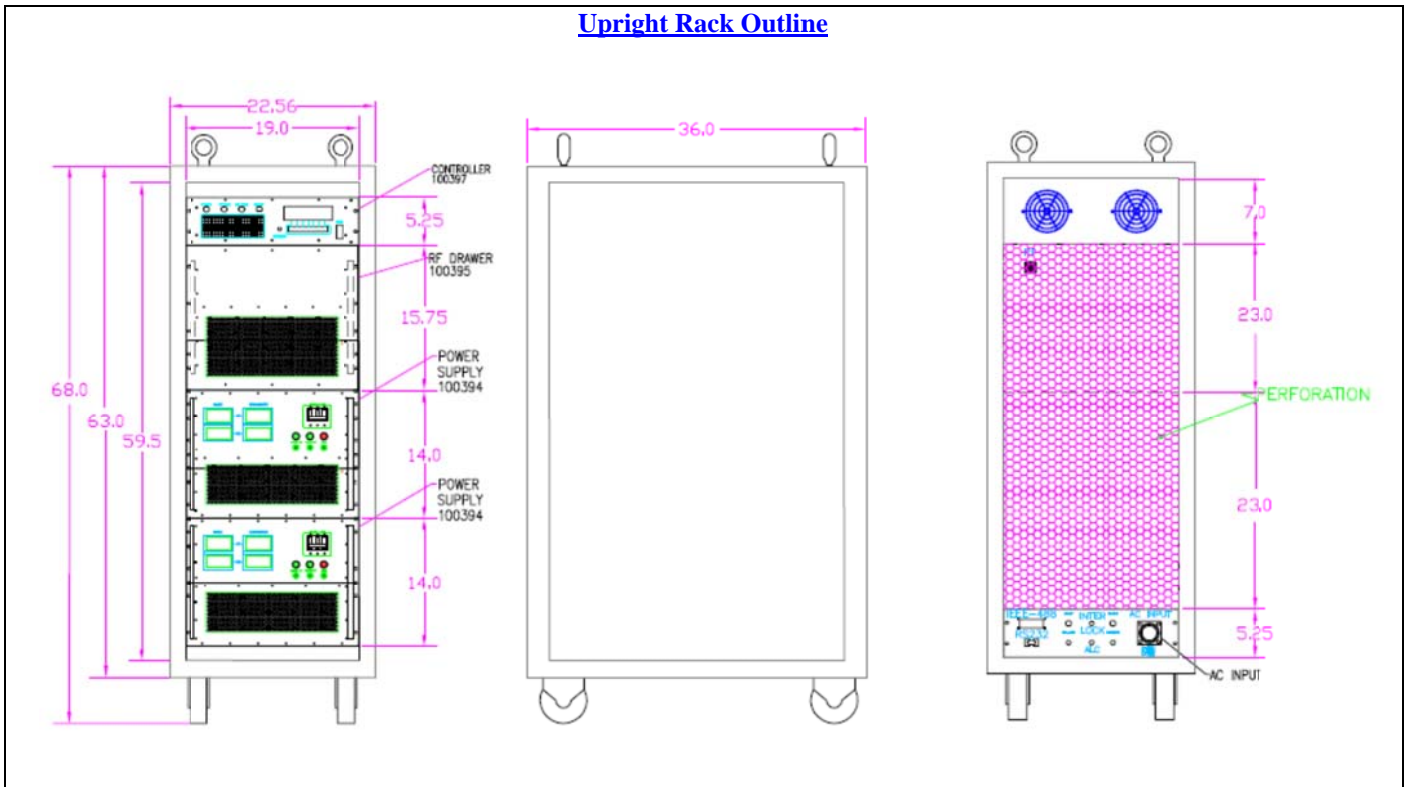
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Outline Configurations:

Double-Wide Rack Outline



Upright Rack Outline



Note: 2000 watt amplifier systems may be larger rack integrated sizes than shown.