



T62 Series



Instruments for Industry, T62 Series TWT Amplifiers provide outstanding RF performance. These 2.0 to 6.0 GHz TWTA's (traveling wave tube amplifiers) have field proven reliability and industry leading performance. Making these amplifiers ideal for multiple high frequency high power applications including but not limited to RF immunity testing.

Operation safety and ease of use are paramount in IFI TWT amplifier product designs. The IFI T62 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 T62 series includes a state-of-the-art touch screen 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.

MAIN FEATURES

- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- 3 year warranty (1 Year on the tube)
- Solid State Power Supply

The touch screen interface shows forward/reverse power indication, system status and self-diagnostic information. All the TWTA operating parameters are simultaneously available via the touch screen interface as well as over the remote bus. For remote operation GPIB, RS232, USB & Ethernet remote interfaces are included as standard. To meet individual application needs, the T62 Series TWT power amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T62 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!

Models & General Specifications

Model Number	Frequency Range	Rated Power	Gain	Mains Power	Weight	Size
T62-200	2 GHz - 6 GHz	200 W	54 dB	2.5 kVA	19 kg	19 inch, 3U Case, 680 mm Deep
T62-300		300 W	55 dB	3 kVA	35 kg	19 inch, 6U Case, 680 mm Deep
T62-500		500 W	57 dB	3.5 kVA	37 kg	



RF Specifications

Modulation Formats	AM, FM, Pulse
Output VSWR Tolerance	<3:1, Infinite any phase, > 3:1 Safety Trip
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (typical)
Output VSWR	2.5:1 (max)
Spurious (typ.)	-50 dBc

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	< 3KVA Single Phase 90 to 264 VAC, > 3KVA Three Phase, 5 Wire STAR, 380 to 415 VAC / 4 Wire Delta, 208 to 240 VAC
Supply Frequency	47 to 63 Hz
RF Input Connector	Type N female
RF Output Connector	Type SC or 7/16 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained
Available Options	Option 129, VSWR Reflected Power Protection "Graceful Degradation" which will automatically reduce the input drive and foldback the output power when the average reflected exceeds a preset limit of 3:1 Option 118R, RF Panel RF Connectors Option 118F, Front Panel Reflected RF Sample Port, -40, -50, -60 dB Option 118R, Rear Panel Reflected RF Sample Port, -40, -50, -60 dB Option 129, Harmonic Filter mounted either internally, externally or separate chassis mounted. (amplifier variant dependent)

Available Products

Product	Description
T62-200	2.0 to 6.0 GHz TWT Microwave Power Amplifier, 200 W
T62-300	2.0 to 6.0 GHz TWT Microwave Power Amplifier, 300 W
T62-500	2.0 to 6.0 GHz TWT Microwave Power Amplifier, 500 W