



# PT-KW HP-Series Pulse TWT Microwave Power Amplifiers

1.0 – 18.0 GHz • up to – 10,000 watts, Minimum Rated Power

The PT HP-series of KW High Power Pulse amplifiers built by IFI; are high power, “State-of-the-art” Pulse TWT amplifiers specifically designed for microwave testing applications. Our elegant approach provides up to 12,000 Watts of pulse power for various frequency ranges from 1.0 to 18.0 Gigahertz in various packages that offers all the controls and communications needed for today's automated test systems. These amplifiers have field proven reliability and unsurpassed performance as the best in the industry.

From the ground up the PT HP-Series amps are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site. 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. Redundant thermal and airflow sensors prevent the TWT from overheating. In addition, high VSWR protection is built in.

The PT HP-Series “State-of-the-art” interface is sophisticated yet simple to use. The backlit LCD screen shows forward/reverse power indication, 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-488 interface are included. To meet individual requirements, the PT HP-Series amplifiers can be easily customized with our available options that may be required for your application.

With all this capability and its reliable elegant design, the PT HP-Series amplifiers are the perfect amplifier for your testing needs.

### IFI Pulse TWT Amplifier Features:

- ∞ Solid State Power Supply Designs
- ∞ Instantaneous Broadband Frequency ranges
- ∞ Modular Design Construction
- ∞ Rugged construction & High Reliability
- ∞ Backlit LCD screen
- ∞ Integrated Force Air Cooling
- ∞ Self-diagnostic circuitry
- ∞ IEEE-488 interface, RS232 & Ethernet Remote



### Models & General Specifications:

| Model Number | Frequency Range (GHz) | Rated Power (kW minimum) | Gain (dB min) | Mains (kVA) | Weight (pounds) | Size (Inches)      |
|--------------|-----------------------|--------------------------|---------------|-------------|-----------------|--------------------|
| PT21-5KW     | 1.0-2.0               | 5.0                      | 67            | 4.0         | 85              | 14.0”Hx19”Wx30.00D |
| PT231-10KW   | 1.0-2.3               | 10.0                     | 70            | 8.0         | 85              | Rack Integrated    |
| PT2719-6KW   | 1.9-2.7               | 6.0                      | 60            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT42-5KW*    | 2.0-4.0               | 5.0                      | 67            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT42-8KW     | 2.0-4.0               | 8.0                      | 69            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT5727-4KW   | 2.7-5.7               | 4.0                      | 60            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT64-6W      | 4.0-6.0               | 6.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT84-5KW*    | 4.0-8.0               | 5.0                      | 67            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT5653-8KW   | 5.35-5.65             | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT115-1.75KW | 5.0-11.0              | 1.75                     | 63            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT128-5KW    | 8.0-12.0              | 5.0                      | 67            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT9593-8KW   | 9.3-9.5               | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT118-8KW    | 8.0-11.0              | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT128-8KW    | 8.0-12.0              | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT128-3KW    | 8.2-12.4              | 3.0                      | 65            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT1087-4KW   | 8.7-10.5              | 4.0                      | 66            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT1088-8KW   | 8.8-10.5              | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT1088-8.5KW | 8.8-10.5              | 8.5                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT109-8KW    | 9.0-10.0              | 8.0                      | 68            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT1715-4KW   | 15.0-17.0             | 4.0                      | 66            | 2.5         | 85              | 14.0”Hx19”Wx25.25D |
| PT1812-3.5KW | 12-18                 | 3.5                      | 66            | 1.5         | 85              | 14.0”Hx19”Wx25.25D |

\* Over the majority of the band



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Standard Features for IFI PT-HP-Series High Power Pulse TWT Amplifiers
Table with 2 columns: Feature, Description. Includes VSWR Reflected Power Protection, Open & Short Circuit Protection, GPIB IEEE 488 & RS232 Remote Control, etc.

PT HP-Series Specifications:
Table with 2 columns: Specification, Value. Includes Frequency Range, Rated Output Power, Gain @ Rated Power, Prime Power, Input/output Impedance, etc.

Standard Prime Powers:
Table with 2 columns: Power Rating, Description. Lists 100, 115, 120 VAC and 200, 220, 230, 240VAC options.

Some Available Options for IFI PT HP-Series TWT Amplifiers
Table with 2 columns: Option Name, Description. Lists Option 103 G/D, Option 110-1E, Option 110-2, Option 110-3, Option 113, Option 118F or R, Option 123F or R.

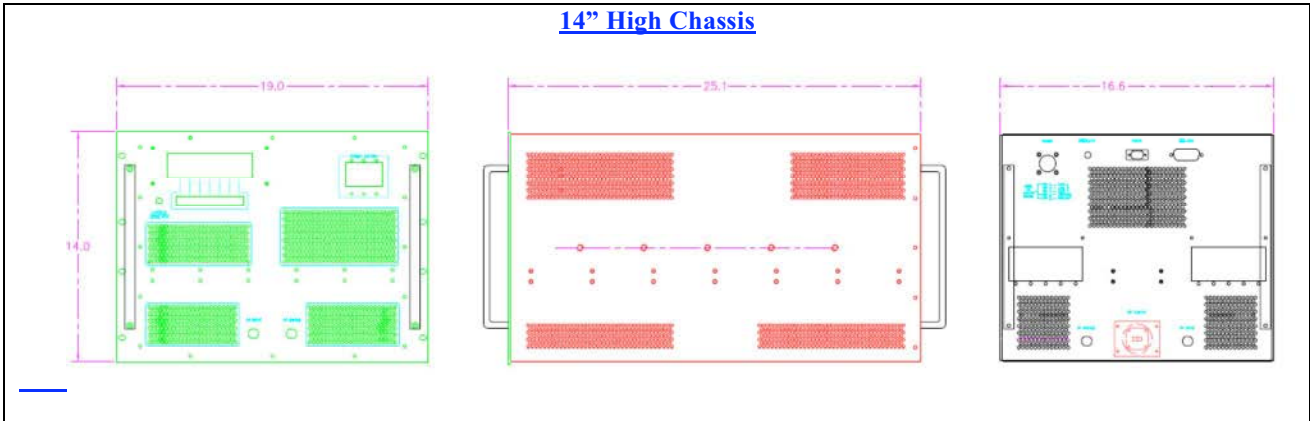


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## Outline Configurations:

### 14" High Chassis



### Rack Integration

