



# PTWA-2.5G7.5G-1000

## 1000W CW TWT Amplifier

### Traveler Wave Tube (TWT) Power RF Amplifier

The PTWA-2.5G7.5G-1000 is a TWT 1000W (CW) RF Amplifier which covers frequency range from 2.5GHz to 7.5GHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty including the TWTs.

Parameter	Specification
<b><u>Electrical</u></b>	
Frequency Range	2.5-7.5GHz
Output Power	1000W CW
Internal Protection	Up to 0dBm with no damage
Gain @ rated power	60dB min.
Gain Adjustment	0 to 30dB
Input /Output Impedance	50 ohms(VSWR 2.0:1)
RF Input/Sample Connectors	Type N Female
RF Output Connector	Type WRD250
Modulation	AM / FM / Pulse
Spurious	-50dBc
Harmonics	2 <sup>nd</sup> harmonic:-3dBc typical at lower end of band 3 <sup>rd</sup> harmonic:-15dBc typical at upper end of band
Prime Power	115/220V AC +/-10%, 50/60 Hz, Three Phase, 5 wires
Consumptions	12KVA
<b><u>Mechanical</u></b>	
Configuration	2 Racks system 42"W x 36"D x 34"H [17U P.S.]
Cooling System	Air cooled ,self contained
Shock	MIL-STD-810C, method 516.2
Vibration	MIL-STD-810C, method 514.2
<b><u>Environmental</u></b>	
Temperature	0° to 45°C
Non-operating temp	0° to 60°C
Humidity	95% without condensation
Altitude	10, 000 feet

*THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*



## **Features [Build-in]**

- High Voltage power supplies Over/Under Voltage & Over Currents Protection
- RS 232 & Ethernet Remote Control.
- RF Input / Output Connectors on the Rear Panel.
- Standby/RF\_ON, Elapsed Time Metering in hours.
- Filament/Beam Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

## **OPTIONS**

- |     |  |
|-----|--|
| 001 | VSWR Protection against output mismatch.   |
| 002 | Alternate Prime Power (specify at time of order).  |
| 003 | N/A  |
| 004 | Forward RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel.   |
| 005 | Reflected RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel. |
| 006 | RF Input Connector on the Rear Panel [Standard], (Specify front or rear at time of order).         |
| 007 | Internal Systems Diagnostics.  |
| 008 | Filament/Beam Elapsed Time Metering in hours.  |
| 009 | N/A  |
| 010 | Forward/Reflected Power Indication simultaneously on Front Panel display.                          |

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