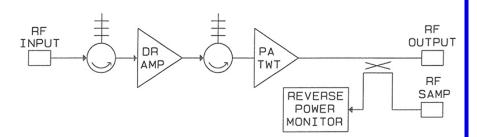
Model 500 500 Watt CW TWTA





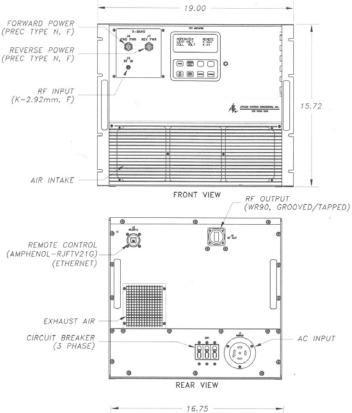
The Model 500, CW TWT Amplifier has been designed to operate 500-700 watt traveling wave tubes up to 18 GHz.

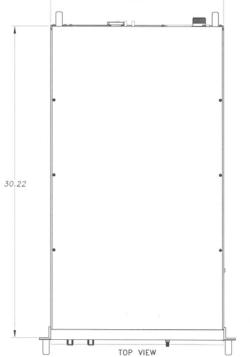
The High Voltage Power Supplies are modular DC-DC converter designs. The Power supply design provides superior stability for optimum TWT phase noise and spurious performance.

The front panel 4-line vacuum fluorescent display, with multiple page modes, provides a monitor for the operating characteristics.

FEATURES:

- Frequencies from 1-18 GHz
 Octave and Multi-Octaves Available
- Low Spurious Outputs
- Phase and Amplitude Stability
- Complete TWT Protection
 Helix Overcurrent
 Cathode Over/Undervoltage
 Collector Overvoltage
 Filament Low Voltage
 Overtemperature
 Input Energy Limit
 Reverse Power Monitor
- Custom Requirements
- Solid State Except for the TWT
- Front Panel Voltage Adjustments
- Front Panel Fault Isolation
- Modular Construction
- DC TWT Filaments
- Four Line Display
 Operating Mode
 Cathode Voltage
 Collector Voltage(s)
 Helix Current
 Filament and Operate Time
- Front Panel Controls
 Power On / Off
 Operate
 Standby
 Fault Reset
 Local / Remote





Model 500 500W CW TWTA SPECIFICATIONS

Duty CycleCWSpurious Outputs-50 dBc, MaximumPhase NoiseLess than ± 1°Amplitude Variation0.1 dB, MaximumGain35 dB, MinimumNoise Figure35 dB, NominalRF ConnectorsType N, SC Coax, or WaveguidePrimary Power3 Phase, 208 VAC ± 10%, 50/60 HzOperating Temperature-20° to +50°CWeight150 lbs, NominalDimensions15.75x19x30.5(in.)

Standard Equipment

- Filament / Operate Time
- Remote Power On/Off
- Ethernet Remote Control (TCP/IP or UDP/IP)
- · Input Isolator
- Reverse Power Monitor
- Forward RF Sample Port

Options

- Driver Amplifier
- Higher CW Power
- Extended Frequency Coverage
- Reverse RF Sample Port
- RS-232/422 or IEEE-488 Remote Control
- Other Primary Power
- Harmonic Filters
- RF Connectors on Front or Panel
- Rack Mount Slides
- Conformal Coated PC Boards
- Outdoor Enclosure
- Custom Requirements

