

Communications & Power Industries Pulsed Amplifier



Versatile

Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZU-3530J1 amplifiers achieving 6.0 kW peak-pulsed output power.

Wide band, automatic fault recycle, user-friendly microprocessor-controlled logic with integrated computer interface, digital metering, and quiet operation suitable for laboratory environments.

An integral solid state preamplifier and IEEE interface are included as standard features.

Global Applications

230 VAC operation. Designed to meet International Safety Standard EN61010 and Electromagnetic Compatibility 2004/108/EC. Not subject to ITAR export controls.

Easy to Maintain

Modular design and built-in fault diagnostic capability.

Worldwide Support

Backed by CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.

With a history of producing high quality products, we can help you with your pulsed amplifier.

FEATURES:

- Mobile
- GPIB remote
- Touchscreen
- Waveguide output

BENEFITS:

- Compact high pulsed power
- Single phase AC power
- Local or remote control
- Wide RF bandwidth

APPLICATIONS:

- Test and measurement systems

CPI Ku-Band 6.0 kW TWT Pulsed Amplifier: VZU3530P2

SPECIFICATIONS

| | |
|----------------------------|--|
| Frequency | 12.0 to 18.0 GHz |
| Output power (min.) flange | 6000 W (combined) |
| Gain | 65 dB min. at rated power, 70 dB typical |
| Gain adjustment range | 20 dB min. |
| Input VSWR | 2.5:1 typical |
| Output VSWR | 2.5:1 typical |
| Load VSWR | 1.5:1 max. for full spec. compliance; Any value for continuous operation (VSWR protection) |
| Pulsewidth | 0.1 μ s to 100 μ s |
| PRF | 50 kHz max. |
| Duty cycle | 6% max. |
| Delay | 400 ns typical: |
| Droop | 0.5 dB over 50 μ s |
| NPO | -10 dBm/MHz Beam on: -110 dBm/MHz Beam off |
| Primary power | 220-240 VAC, single phase 47-63 Hz |
| Power consumption | 4.4 kVA typical |
| Filament voltage | Reduction of 10% in standby for extended TWT life |
| Inrush current | 200% max. |
| Ambient temperature | -10° to +40°C operating -40° to +70°C non-operating |
| Relative humidity | 95% non-condensing |
| Altitude | 10,000 ft. with standard adiabatic derating of 2°C/1000 ft., operating: 40,000 ft., non-operating |
| Shock and vibration | As normally encountered in a protected laboratory environment |
| Cooling (TWT) | Forced air with integral blower Rear air intake and exhaust; 0.10" water max. external pressure loss allowable |
| RF Input connection | Type N female |
| RF Output connection | WR-62 waveguide |
| Dimensions (W X H X D)* | 23 x 59 x 37in. (584 x 1499 x 940 mm) Excluding connectors, fans. Handles and exhaust duct |
| Weight | ≈600lbs. (273 kg) max. |
| Heat dissipation | ≈1600 W |
| Safety | ENG61010 |
| Acoustic noise | 65 dBA @ 3 ft. from amplifier |

*excluding cabinet and system accessories