

## 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 VZX-3530J1 amplifiers achieving 8.0 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 X-Band 8.0 kW TWT Pulsed Amplifier: VZX3530P2

## SPECIFICATIONS

|                            |  |
|----------------------------|--|
| Frequency                  | 8.0 to 12.0 GHz  |
| Output power (min.) flange | 8000 W combined  |
| Gain                       | 69 dB minimum at rated power; >69 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. (VSWR protection)  |
| Pulsewidth                 | 0.1 $\mu$ s to 100 $\mu$ s   |
| PRF                        | 50 kHz maximum   |
| Duty cycle                 | 6% maximum   |
| Delay                      | 400 ns typical   |
| Droop                      | 0.5 dB over 50 $\mu$ s   |
| NPO                        | -10 dBm/MHz Beam On: -110 dBm/MHz Beam Off   |
| Primary power              | 220-240 VAC, single phase 47-63 Hz   |
| Power consumption          | 4.0 kVA typical  |
| Filament voltage           | Reduction of 10% in standby for extended TWT life  |
| Inrush current             | 200% maximum   |
| Ambient temperature        | -10° to +40°C operating<br>-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:<br>40,000 ft., non-operating                 |
| Shock and vibration        | As normally encountered in a protected laboratory environment  |
| Cooling (TWT)              | Forced air with integral blower<br>Rear air intake and exhaust;<br>0.10" water max. external pressure loss allowable |
| RF Input connection        | Type N female  |
| RF Output connection       | WR-90 waveguide  |
| Dimensions (W X H X D)*    | 23 x 59 x 37in. (584 x 1499 x 940 mm)  |
| Weight                     | ≈600lbs. (273 kg) max.   |
| Heat dissipation           | ≈3000 W  |
| Safety                     | ENG61010   |

\*excluding cabinet and system accessories