

## 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 VZS3530J1 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 more than 50 years of high power experience, CPI's worldwide 24-hour customer support network includes more than 20 regional factory service centers.

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

Contact us at [BMDMarketing@cpil.com](mailto:BMDMarketing@cpil.com) or call us at +1 978-922-6000.



### FEATURES:

- Rack mount
- Coaxial output
- GPIB remote
- Touchscreen
- Modular assembly
- Single phase AC power
- Local or remote control
- Wide RF bandwidth

### BENEFITS:

- Versatile
- Suitable for lab environments
- Designed for the global market
- Modular assembly and built-in fault diagnostics for easy maintenance
- Wide RF bandwidth reduces number of required amplifiers

### APPLICATIONS:

- Test and measurement systems

# CPI S-Band 8.0 kW TWT Pulsed Amplifier: VZS3530P2

## SPECIFICATIONS

Frequency	2.0 to 4.0 GHz
Output power (min.) flange	8000 W combined (in the majority of the frequency band)
Gain	68 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 (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	4.4 kVA typical
Filament voltage	Reduction of 10% in standby for extended TWT life
Inrush current	200% maximum
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	S/C coaxial
Dimensions (W X H X D)*	23 x 59 x 37in. (584 x 1499 x 940 mm)
Weight	$\approx$ 600lbs. (273 kg) max.
Heat dissipation	$\approx$ 3000 W
Safety	ENG61010
Acoustic noise	65 dBA @ 3 ft. from amplifier

\*excluding cabinet and system accessories



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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