Communications & Power Industries

7.0 kW L-Band TWT-based Pulsed Amplifier

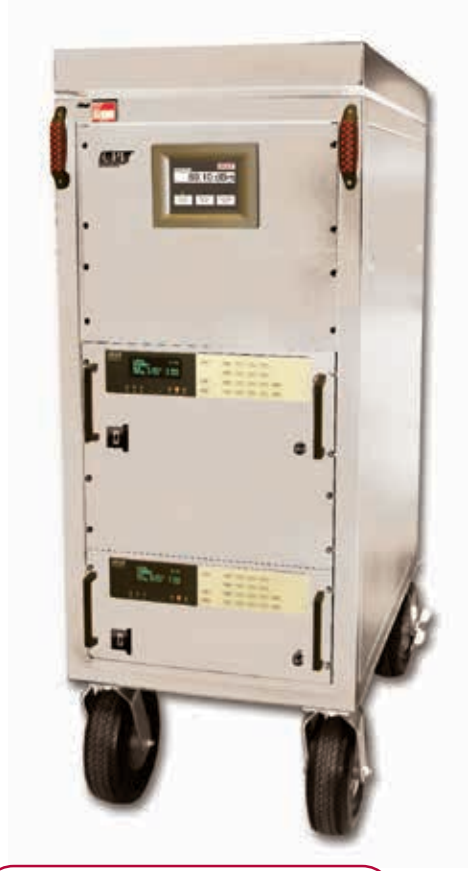
VZL3530P2

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



Applications:

- **Test and measurement systems**

Versatile

Modular assembly allows for either lower powered multiple test applications or a single amplifier phase combined system of two VZL3530J1 amplifiers achieving 7.0 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.

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.

Distributed by: Reliant EMC LLC, 3311 Lewis Ave, Signal Hill CA 90755, 408-916-5750, www.reliantemc.com

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Specifications	
Frequency	1.0 to 2.0 GHz
Output Power at Flange	7000 W (nominal, in the majority of the band - see page 3 Power Plot.)
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; Any value for continuous operation (VSWR protection)
Pulse Width	0.1 µ to 100 µs
PRF	50 kHz max.
Duty Cycle	4% max.
Delay	400 ns typ.
Droop	0.5 dB over 50 µs
NPO	-10 dBm/MHz Beam On; -110 dBm/MHz Beam Off
Primary Power	220 - 240 VAC, single phase 47- 63 Hz
Power Consumption	2.6 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 & 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)*	19 x 37 x 27.5 in. (483 x 940 x 699 mm)
System Weight	≈600 lbs (273 kg)
Heat dissipation	≈1600 W
Safety	EN61010
Acoustic Noise	65 dBA @ 3 ft. from amplifier

*excluding cabinet and system accessories

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