

# 8000 W, V/UHF-Band RF Amplifier

## Model AR-150-1000-8E3

CPC's new line of rugged Solid State Power Amplifiers are custom designed specifically for CW/Pulse Radar, Medical, Scientific or Communication applications. These systems consist of single or multiple channels of matched amplifiers that are ideal for creating uniform transmitters to meet your specific power needs. Power levels are available from 1 to >100 kW.

### Key Parameters

- 150MHz to 1000MHz
- 8kW Peak minimum power
- 19 Inch Rack Subassemblies
- Internal Power Supplies
- Computer Control and Monitoring
- Forced Air Cooling
- Wide Temperature Range
- Circulator Protection
- RF Sample Port
- Front Panel Control and Fault Indicators

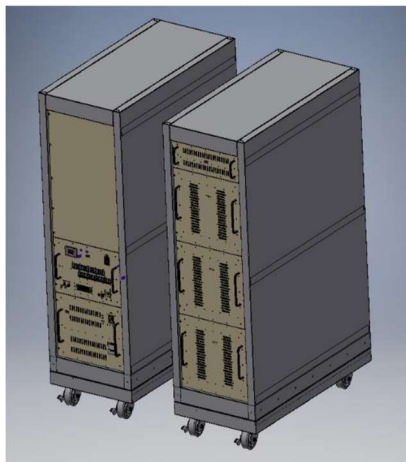
With 8 kW of peak output power, the AR-150-1000-8E3 operates from 150 to 1000 MHz to provide superior performance in Military Radar Test Range applications. High Gain combined with outstanding Gain Flatness and Stability make the Amp ideal for simulating real world threats.

Supporting 650  $\mu$ sec Pulse Widths and high duty cycles, the Amp easily handles modern emitters.

Housed in mobile racks with forced air cooling, the units can be positioned where needed and remotely controlled for ease of operation.

CPC's has a full line of Solid State amplifiers from 100 kHz to 32 GHz, with power levels up to 150kW that can be customized to meet your requirements.

Contact CPC today to discuss a solution to fit your system.



**AR-150-1000-8E3**



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# AR-150-1000-8E3

## Solid State Power Amplifier

### Specifications

Parameter	Units	Min	Typ	Max
Electrical Specifications				
Frequency	MHz	150		1000
RF Output Power	W			8000
Pulse Width	µs			650
Duty Cycle	%			25
Modulation		Pulse Mode Only		
Rise Time	ns		500	
Fall Time	ns		500	
RF Input	dBm	0		10
Gain	dB		69	
Gain Flatness	dB		±4	
Gain Stability – per 15 min.	dB		±0.25	
Input/Output Impedance	Ohms		50	
Gating Signal		TTL Synchronous		
Blanked Noise – over Thermal	dB		20 dB	
Droop	%		10	
Load VSWR		Full Reflection, any Phase		
Operating Mode		Class A/B		
Internal Circulator		Yes		
Input Power		208 VAC, 3Ø, 60 Hz		
Efficiency	%		30	
Interfaces				
RF In		N(f)		
RF Out		7/16 <sup>th</sup> EIA		
Interface Connector		9-Pin D-Sub, Ethernet		
RF Sample Ports		N(f) 2X		
RF Sample Ports – FWD/REF	dBc		-69	
Communication Interface		Over Voltage, Over Temp, VSWR		
Mechanical Specifications				
Size		2 Mobile Racks, 23” W x 60” H x 45”L		
Environmental Characteristics				
Operating Temp	°C	-10		+40
Storage Temp	°C	-40		+60
Cooling		Forced Air		
Shock/Vib		MIL-STD-810D		



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