



# AMP2052P SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous VHF & UHF ultra-wide bandwidth
- Suitable for high power long pulse standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter		Specification			Notes
Operating Frequency Range		30 - 520 MHz			
Power Output Peak Power		1000 Watt Min			CW or Peak pulse
Power Gain		60 dB Min			
Pulse Characteristics		<b>Width</b>	<b>Duty</b>	<b>Droop</b>	
		10 - 500 μS	30 %	<1 dB	
Power Gain Flatness		3.0 dB p-p Max			
Input Return Loss		-10 dB Min			Relative to 50 Ohm
2-Tone Intermodulation (IMD)		-30 dBc Typ			50dBm/Tone, Δ = 1MHz
Harmonics	2 <sup>nd</sup>	-30 dBc Typ			
	3 <sup>rd</sup>	-20 dBc Typ			
Spurious		-60 dBc Max			Non-harmonics
Operating Voltage		180 - 240 VAC			
Power Consumption		3 KW Avg Max			At 500 μS & 30%
Input Power Protection		+8 dBm Max			<10 Sec without damage
Load VSWR Protection <sup>1</sup>		∞: 1			<1 minute at rated Pout

### Notes:

- Auto shutdown with controller option.

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	430 x 311 x 600 mm	7U excluding handles
Weight	40 Kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	See outline drawing	
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Bluetooth application

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## OUTLINE DRAWING

