AMP2014
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear LDMOS design
Instantaneous ultra-wide bandwidth
Rack mounted system
Designed for broadband EMI/RFI, Lab, Comm. and EW applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

Parameter	Specification	Notes
Operating Frequency Range	500 - 1000 MHz	
Power Output @ Psat	1000 Watt Min	CW
Power Output @ P1dB	500 Watt Typ	CW
Power Gain	60 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Gain Adjustment Range	20 dB Min	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	47dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 264 VAC	50 - 60Hz
Power Consumption	4500 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 Minute at rated Pout

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 222 x 560 mm	5U - excluding handles
Weight	40 Kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power / Monitoring Connectors	IEC 60320-C14 / 9 Pin D-Sub	Or equivalent
Safety Interlock Connector	15-Pin Subminiature D-Sub	
Cooling: Built in Fan Cooling	72 dBa Typ	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS-232, USB Optional GPIB/IEEE Interface	

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

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OUTLINE DRAWING