



AA-80M1G-300 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- 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	80 - 1000 MHz	
Power Output	300 Watt Min 250 Watt Min	CW Into 3:1 Load VSWR
Power Gain	54 dB ± 2.0dB	
Gain Adjustment Range	20 dB Typ	Manual or with controller option
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ (IP3 = +60 dBm)	45dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	48 - 63 Hz
Power Consumption	2000 Watt Max	At rated Pout
Max Input Power Protection	+8 dBm	<10 Seconds without damage
Load VSWR Protection	∞ : 1	<1 Minute @ rated output

ENVIRONMENTAL CHARACTERISTICS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	3U Bench Top Chassis	3U
Weight	20 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

OUTLINE DRAWING