

AA-10K250M-500 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
 Small form factor, rack mounted system
 Class A/AB Linear design
 High Power Advanced technology devices
 Instantaneous ultra-wide bandwidth
 Built-in protection circuits, with extensive monitoring
 Local LCD & remote flexible interfaces
 High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	10 kHz - 250 MHz	
Power Output @ Psat	500 Watt Min	CW or Pulse
Power Output @ P1dB	300 Watt Typ	
Power Gain	57 dB Min	Less than 0dBm for rated Pout
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input / Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	47dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 240 VAC	47 - 63 Hz
Power Consumption	4500 Watt Max	At rated output
Input Power Protection	+10 dBm Max ¹	
Load VSWR Protection	4 : 1: Max ²	Foldback @ preset limit ²
Sample Port Coupling	-50 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	482 x 310 x 798 mm	8U, excluding handles
Weight	47 Kg.	
RF Conn. In / Out / Sample	N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS Connector	Or equivalent (IEC Connector)
Safety Interlock Connector	D-Sub (Optional BNC female)	Open=STBY/Short=RFON
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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OUTLINE DRAWING

