

### FEATURES

Designed for EMI/RFI, lab, and general communication applications.  
 Small form factor, rack mounted system.  
 Class A/AB linear design using high power advanced devices.  
 Instantaneous ultra-wide bandwidth.  
 Suitable for all signal channel modulation applications.  
 Built-in protection circuits with extensive monitoring.  
 Optional all remote-control platforms.  
 High efficiency, with unprecedented reliability and ruggedness.



### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	10 kHz - 250 MHz	
Power Output @ Psat	2500 Watt Min	CW
Output Power @ P1dB	1700 Watt Typ	
Power Gain	64 dB Min	0dBm or less for rated Pout
Gain Adjustment Range	20 dB Min	Local or remote capable
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	<-30 dBc Typ	54dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120 / 208 VAC, 3-Phase, 47 - 63Hz	220/380 VAC available
Power Consumption	9 KWWatt Max	At rated Pout
Input Power Protection	+10 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1 Max <sup>2</sup>	Foldback @ preset limit <sup>2</sup>
Sample Port Coupling (optional)	-60 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	600 x 1760 x 1100 mm	36U cabinet
Weight	150 Kg. Typ	
RF Connectors In / Out/Sample	Type-N Female / 7/16 DIN / Type-N-Female	Front or rear panel
AC Power / Interface Connector	MS / 9-Pin D-Sub	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
<b>OPTIONAL:</b> Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel



# AA-10K250M-2500 SOLID STATE HIGH POWER AMPLIFIER

## AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
<b>Included CPM:</b> Calibrated Power Monitoring (With Option DMC purchase)	Offset correction entry for +/- 0.2dB accuracy	12-points standard <sup>4</sup>

<sup>4</sup> Consult with factory if additional points would be required.