

MODEL NUMBER:  
**SS250M-1250**

## SOLID STATE HIGH POWER AMPLIFIER



### FEATURES

- Small form factor, rack mounted system
- Class A/AB linear design
- High power Advanced technology devices
- Instantaneous ultra-wide bandwidth
- Designed for EMI/RFI, lab, and general communication applications
- Built-in protection circuits, with extensive monitoring
- Remote-control platforms included
- High efficiency, with unprecedented reliability and ruggedness

### ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

PARAMETER	SPECIFICATION	NOTES
Operating Frequency Range	10 kHz - 250 MHz	CW
Power Output @ Psat (CW)	1250 Watt Min	1500W Typ
Power Output @ P1dB GCP	700 Watt Typ	
Power Gain	62 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote capable
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	52dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	200 - 240 VAC	47 - 63 Hz
Power Consumption	4500 Watt Max	At rated output
Input Power Protection	+10 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1: Max <sup>2</sup>	Foldback @ preset limit
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 <sup>3</sup>	

3 MIL Spec available for quotation

## MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	NOTES
Dimensions W x H x D	600 x 960 x 750 mm	18U without cabinet
Weight	120 Kg.	Nominal
RF Connectors In/Out/Sample	N-Female/716-Female/N-Female	Front or Rear Panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	MS Connector	Or equivalent (IEC Connector)
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	

## 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>

## OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER

