



# AMP2023 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class A/AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all single channel modulation standards, EMC labs
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 4.0 GHz	
Power Output	160 Watt Min	CW, 200W typ
Power Output @ P1dB	80 Watt Min	CW, 100W typ
Power Gain	52 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	800 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<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	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding handles
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Optional Remote Bluetooth application

OUTLINE DRAWING - SHOWN WITH OPTIONAL LCD AND DIGITAL CONTROLLER

