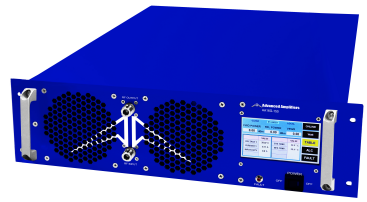
AA16G-150
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

3U Bench Top or Rack mounted system
Class AB linear GaN design
Instantaneous ultra wide bandwidth
Suitable for all single channel modulation standards
Optional uP remote control & monitoring
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 6.0 GHz	
Power Output Psat	150 Watt Min	
Power Output P1dB	100 Watt Min	CW
Power Gain	50 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC	
Power Consumption	1500 Watt Max	At rated output
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-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U
Weight	25 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

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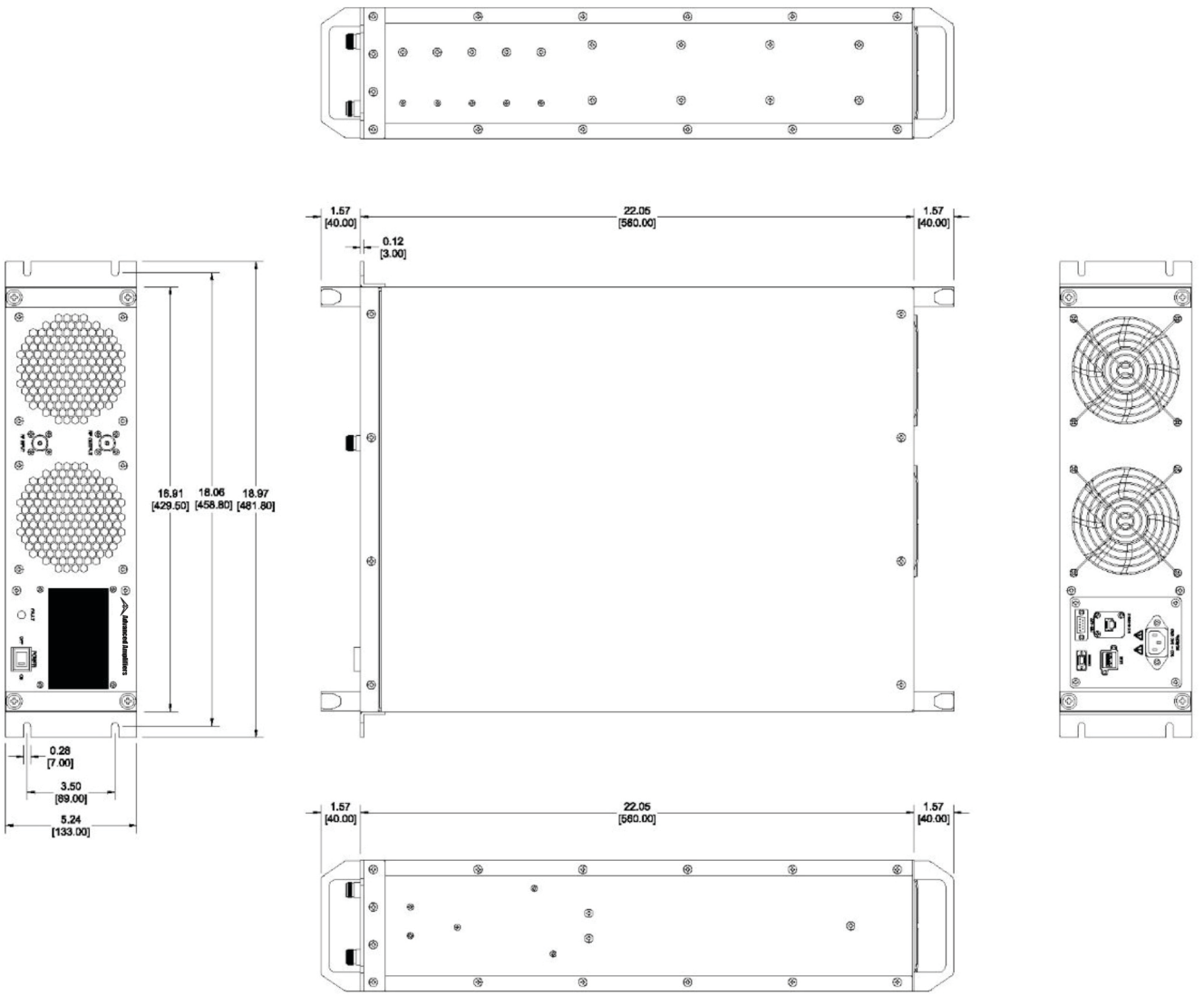
OUTLINE DRAWING