



# AMP4012A SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

- Rack mounted system
- Class AB solid-state linear design
- Instantaneous wide bandwidth
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.2 - 1.6 GHz	Optimized 1222.5-1577.5MHz
Power Output	200 Watt Min / 250 Watt Typ	2 MHz BW (2048 kbps), BPSK 1/1
Power Gain	53 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At 150 Watt
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	1300 Watt Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	At Rated Pout

## ENVIRONMENTAL CHARACTERISTICS

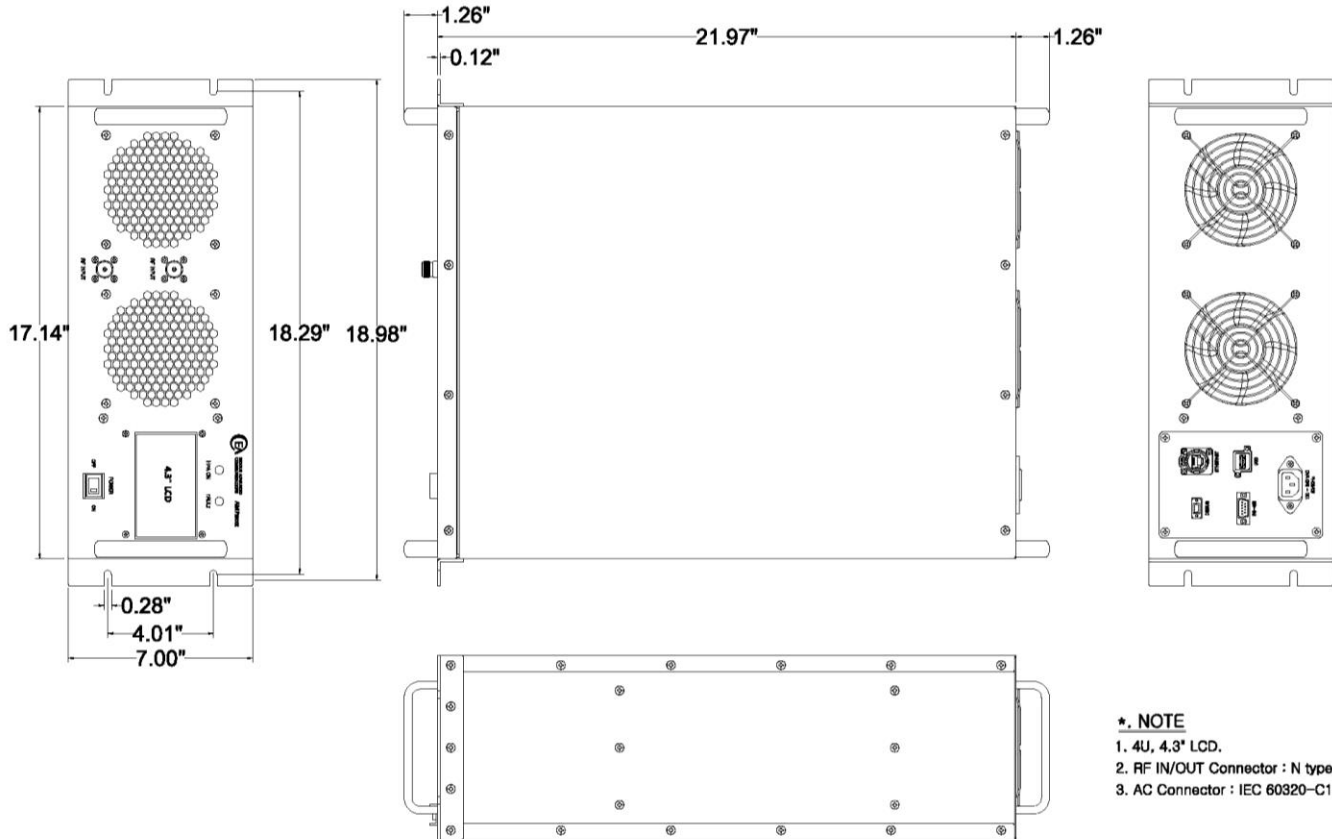
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Shock and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	19" x 7" x 22" (483 x 178 x 560 mm)	R4U
Weight	60 lb. Max	
RF Connectors In / Out	Type-N Female	Rear Panel
AC Power	NEMA 5-15P or NEMA 5-20P	
Interface Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed, Dust filters
Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	

# AMP4012A SOLID STATE HIGH POWER AMPLIFIER

## OUTLINE DRAWING



- \*. NOTE**
1. 4U, 4.3" LCD.
  2. RF IN/OUT Connector : N type Female
  3. AC Connector : IEC 60320-C14