



# AMP2085-1 PULSE SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for CW, Pulse, and all single channel modulation standards
- Local LCD & remote flexible interfaces
- Designed for EMI/RFI, lab, and general communication applications
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 8.0 GHz	
Power Output@ Psat	120 Watt Min	
Power Output Pulse	120 Watt Min	1-100μS, up to 10% Min
Power Gain	51 dB Min	
Power Gain Flatness	5 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	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	1000 Watt Max	At rated output
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto shutdown >5:1 VSWR
Gating function	5 μS Max	Rear panel D-Sub

## ENVIRONMENTAL CHARACTERISTICS

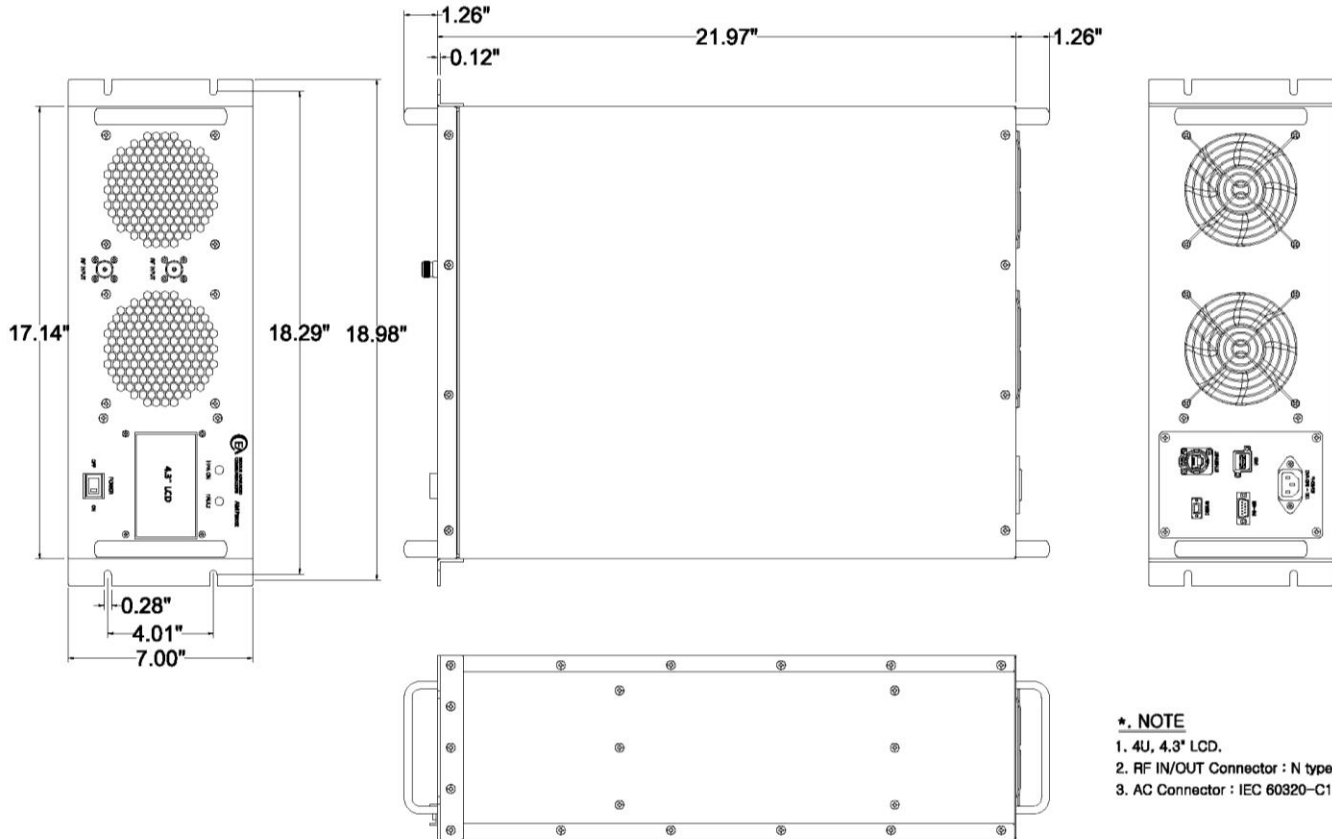
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	432 x 178 x 560 mm	4U - excluding handles
Weight	25 Kg. Nom	
RF Connectors In/Out	Type-N Female	
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
<b>EMI SERIES:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Remote Bluetooth application Optional

# AMP2085-1 PULSE 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