



# AMP2131P SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Suitable for high power - P-Band pulse applications
- Built-in control, monitoring and protection circuits
- Versatile interface options
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS: 50 Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	500 - 1000 MHz			
Peak Output Power	10,000 Watt Min			Into 50 Ω
Power Gain	70 dB Min			Pin=0dBm for full rated Pout
Power Gain Flatness	+1.5 / -0 dB Max			Constant input power
Pulse Characteristics	<b>Width</b>	<b>Duty Cycle</b>	<b>PRF</b>	PRF up to 2KHz with 25 μS pulse width and up to 10KHz with 250 nS pulse width
	0.25 - 25 μS	4.0 % Max	1 - 10 KHz	
Input Return Loss	-12 dB Max			Relative to 50 Ohm
Harmonics	-20 dBc Max			At rated output
Spurious	-60 dBc Max			Non-harmonics
Noise Quieting	-80 dBm/MHz Max			
Operating Voltage	208 VAC, ±10 %, 50-60 Hz ±10 %			3-Phase
Efficiency	>10 %			At rated Pout
Input Power Protection	+3 dBm Max			<10 Sec without damage
Load VSWR Protection	∞ : 1 @ rated Pout			Auto shutdown @ 3 : 1 VSWR

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Altitude Operating / Storage	2500-meter Min	
Shock / Vibration <sup>1</sup>	12G MIL-STD-810F	

## Notes:

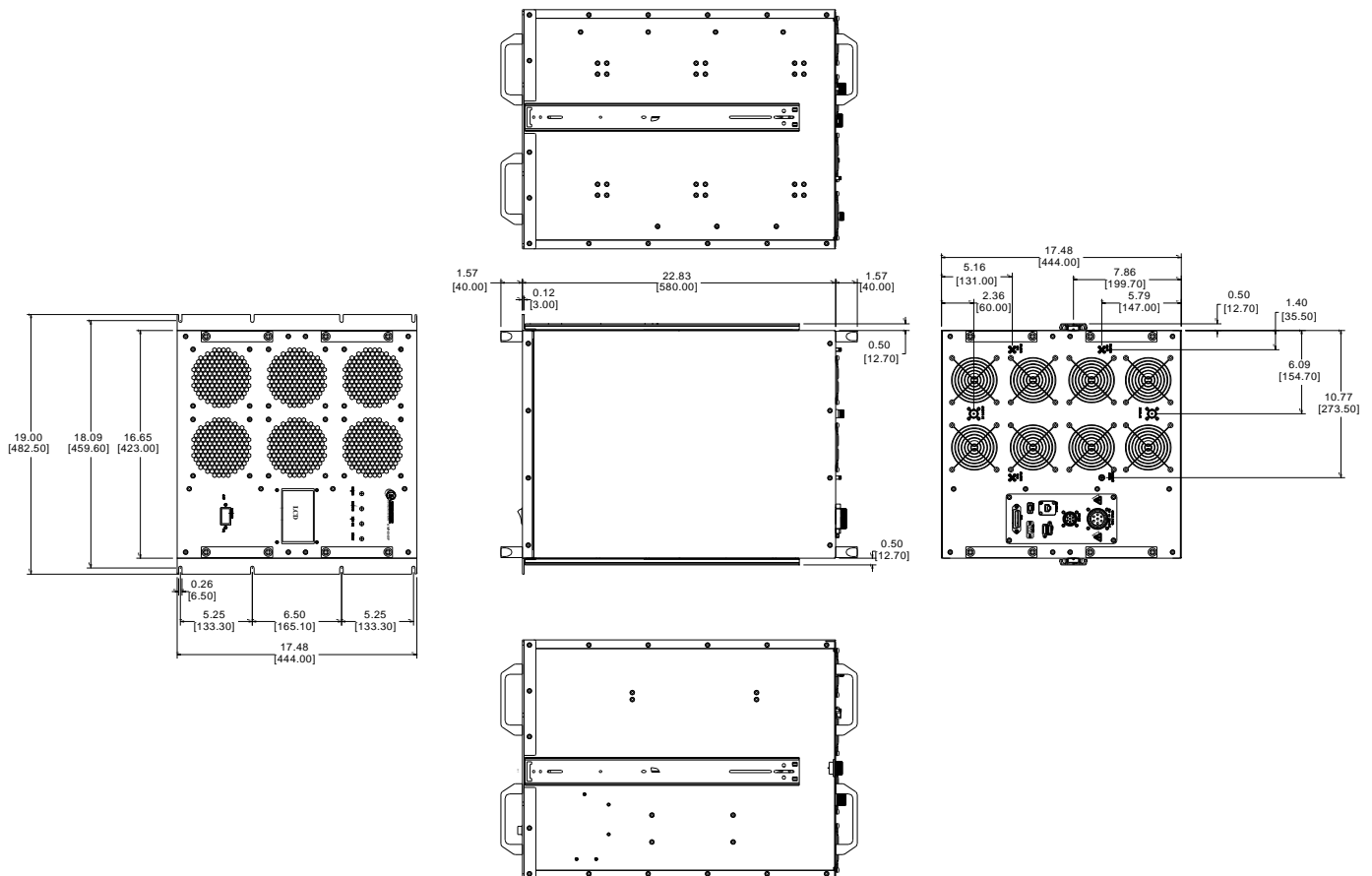
1. Designed to meet

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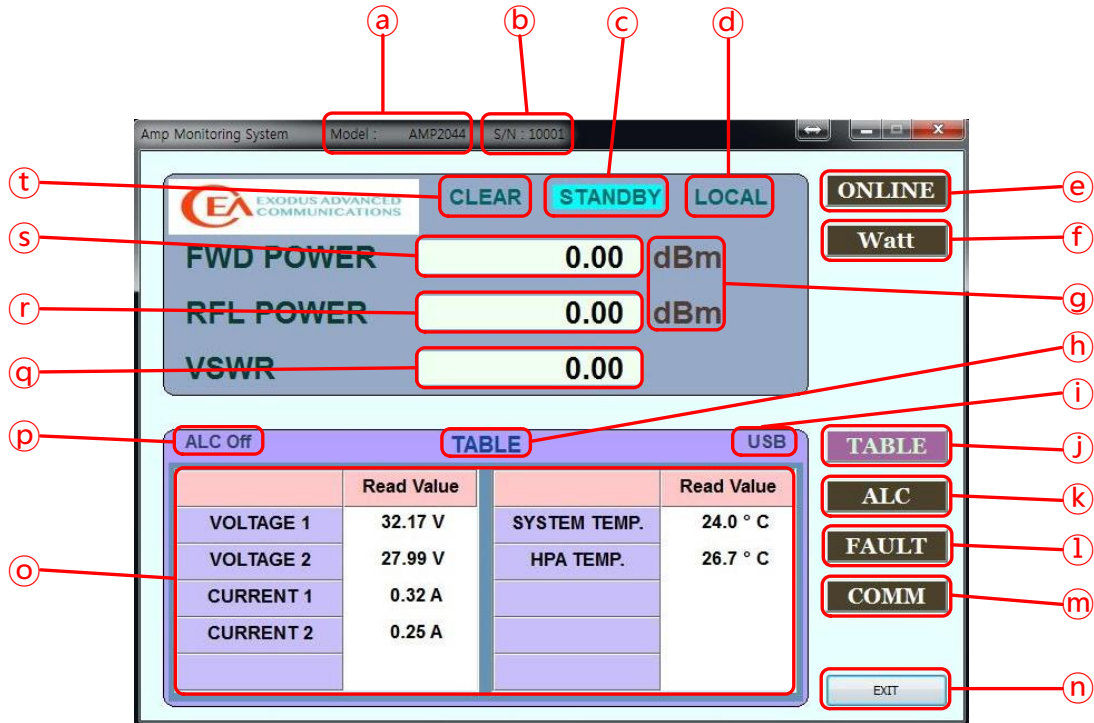
## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	423 x 444 x 580 mm	10U without handles
Weight	90 Kg. Max	
RF Connectors Input / Output / Sample Port	Type-N Female	Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPIB / Remote Connectors	3549-1002 / MS3102A16S-1S	Rear panel, or equivalent
Noise Quieting connector	TNC female	
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, RS232/RS422/485 Optional GPIB IEEE	Rear panel

## OUTLINE DRAWING



## CONTROLLER - PRIMARY (MAIN) WINDOW



- a Model: Connected model number.
- b S/N: Serial number of the connected model.
- c STANDY/ONLINE: Display system STANDY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDY: System ONLINE/STANDY button.
- f Watt/dBm: Watt/dBm conversion button.
- g dBm/Watt: Display dBm/Watt status.
- h TABLE/ALE/FAULT/COMM: Display menu status.
- i RS232 (RS422)/USB/BLUETOOTH/ETHERNET: Display the communication mode.
- j TABLE: TABLE menu button.
- k ALC: ALC menu button.
- l FAULT: FAULT menu button.
- m COMM: COMM menu button.
- n EXIT: Button to exit the program.
- o Display status of the TABLE menu window.
- p ALC On/ALC Off: Display ALC operating status.
- q VSWR: Display VSWR value.
- r RFL POWER: Display RFL POWER value.
- s FWD POWER: Display FWD POWER value.
- t CLEAR/FALUT: Display CLEAR/FAULT status.