



AMP2083P-2KW SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

- Rack mountable chassis
- Class AB linear GaN design
- Instantaneous C-Band bandwidth
- Suitable for high power pulse applications
- Built-in control, monitoring and protection circuits
- Versatile interface options
- High reliability SSPA and ruggedness for harsh environmental installations



ELECTRICAL SPECIFICATIONS: 50 Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	4.0 - 8.0 GHz			Pulse
Peak Output Power	2000 Watt Min			
Power Gain	63 dB Min			Pin = 0 dBm Nom for rated Pout
Power Gain Flatness	5.0 dB p-p Max			Constant input power
Pulse Characteristics	Width	Duty	PRF	
	1 - 100 μS	10 % Max	100 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	180-240 VAC, ±10 %, 50-60 Hz ±10 %			Single 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 load VSWR

ENVIRONMENTAL CHARACTERISTICS (Note 1)

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	MIL-STD-810F, Method 516.5	
Vibration	MIL-STD-810F, Method 514.5	
Transportation	MIL-STD-810F, Method 514.5	

Notes:

1. Designed to meet

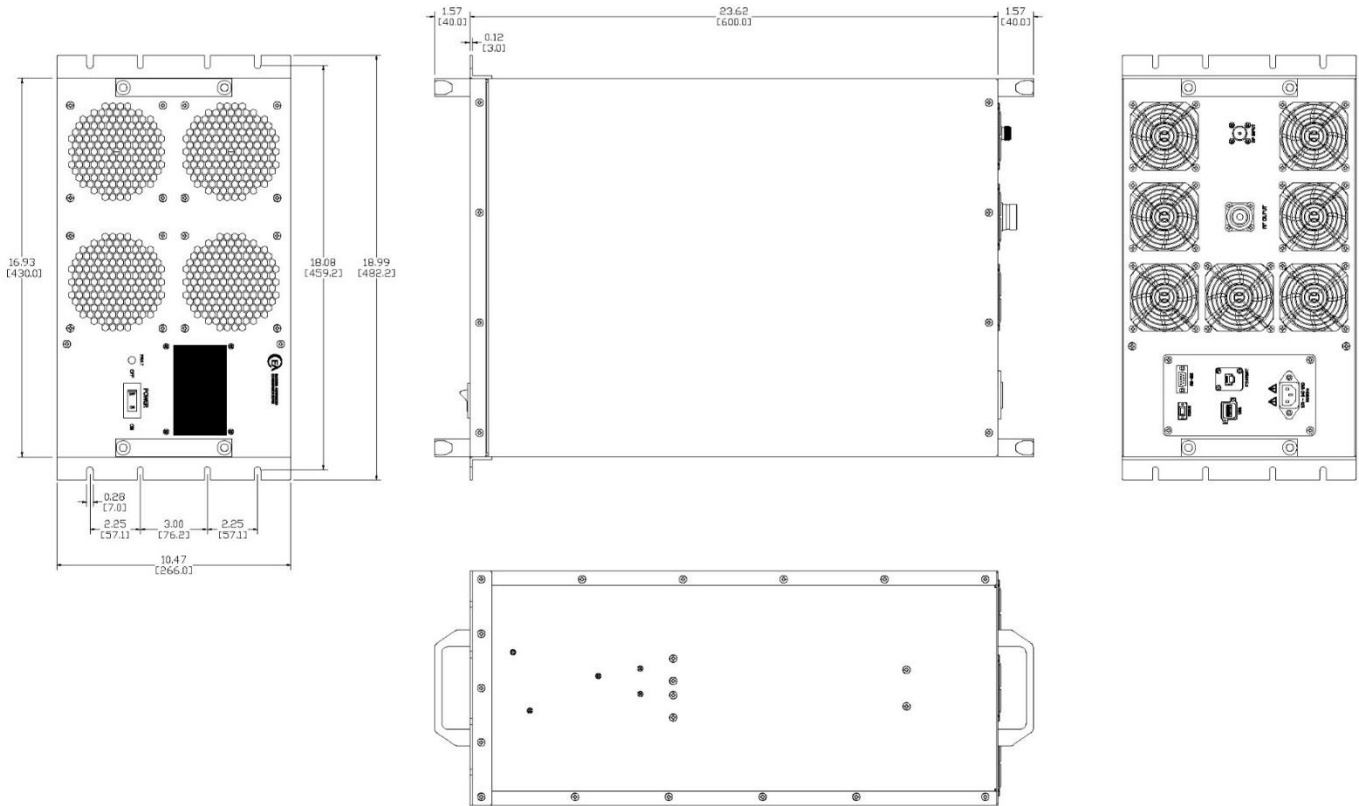


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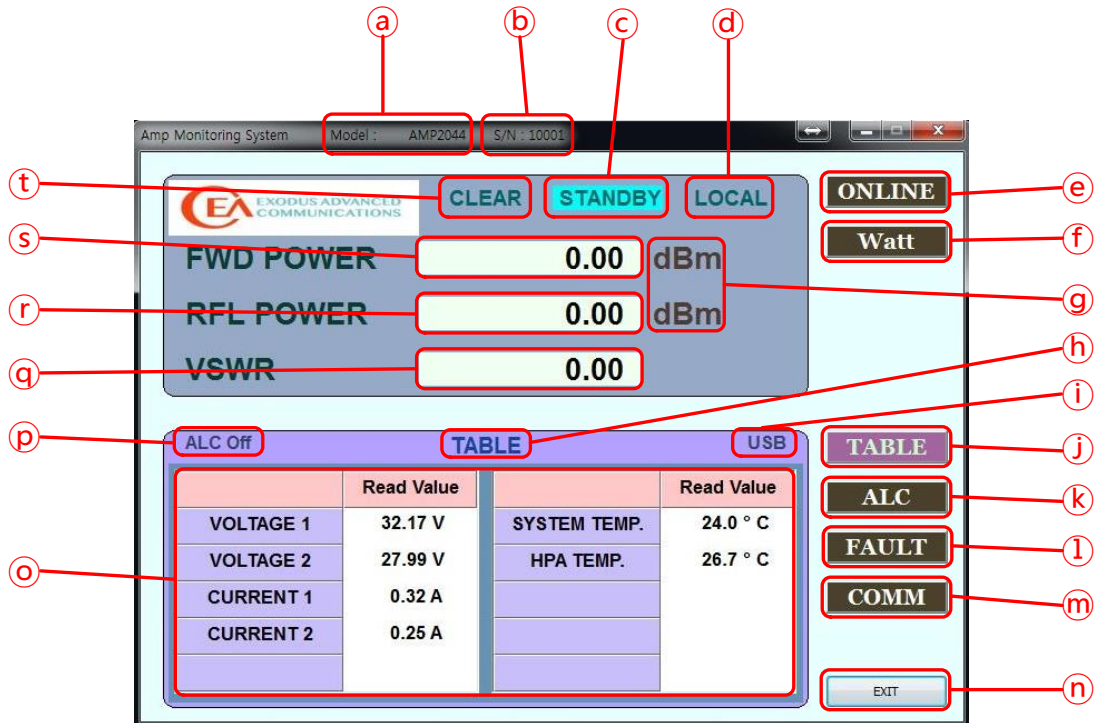
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 266 x 600 mm	6U - Excluding handles
Weight	35 Kg. Nom	
RF Connectors (Specify Front or Rear at time of order)	RF Input Type-N Female RF Sample Type-N Female RF Output SC Female	Front or Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPB / Remote Connector (Optional)	3549-1002 / MS3102A16S-1S	Rear panel, or equivalent
Noise Quieting connector	BNC female	
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB 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.