



AMP2136-2-4-8KP SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

- Rack mounted system (2 x 4KW Pulse Drawers rack integrated)
- Class AB linear GaN design
- Instantaneous S-Band bandwidth
- Suitable for high power pulse applications
- Built-in control, monitoring and protection circuits
- Versatile interface options
- Rack configured for 8KW with both 4KW pulse drawers installed
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 4.0 GHz	Pulse
Peak Output Power	8000 Watt Min	
Power Gain	69 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	
	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	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 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

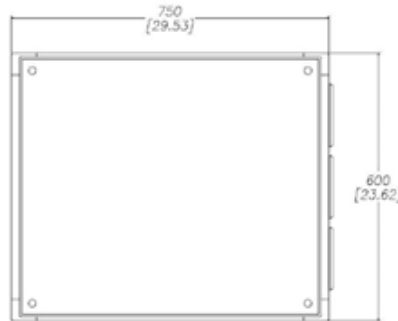


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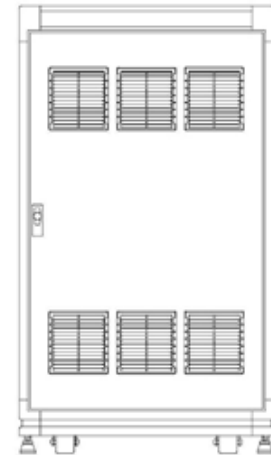
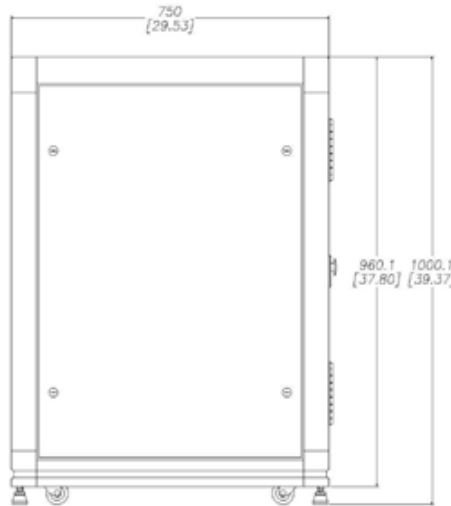
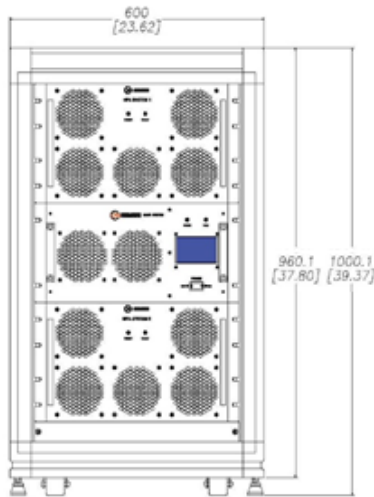
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	Rack mounted cabinet 21U	Per outline drawing
Weight	600 lb. Nominal	
RF Connectors (Specify Front or Rear at time of order)	RF Input Type-N Female RF Sample Type-N Female RF Output 716 Female	Front Panel Front Panel Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPB / Remote Connectors	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, RS232/RS422/485 GPB IEEE	Rear panel

8KW RACK OUTLINE DRAWING

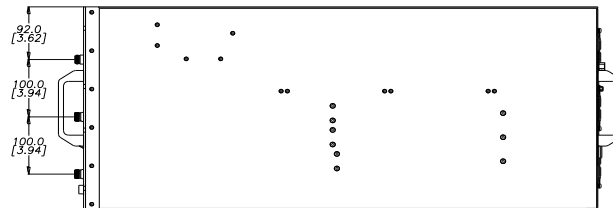
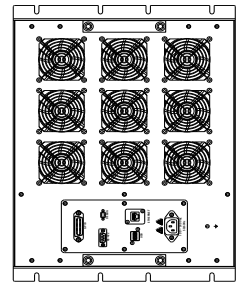
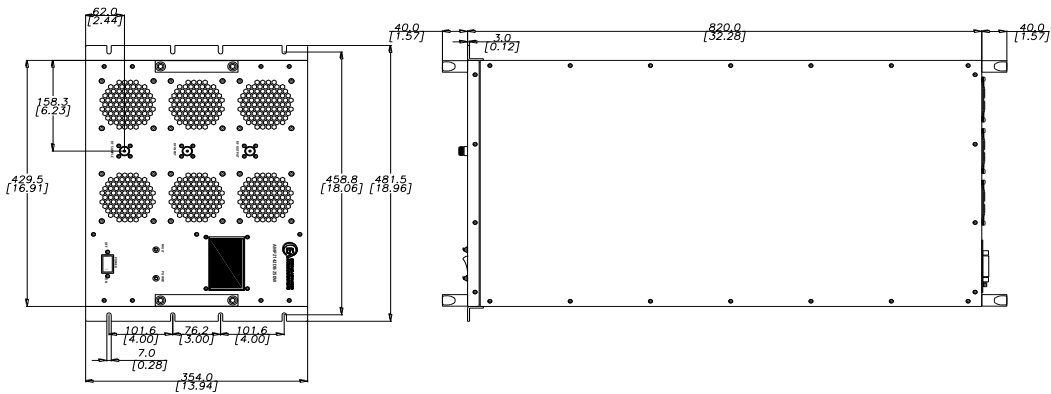
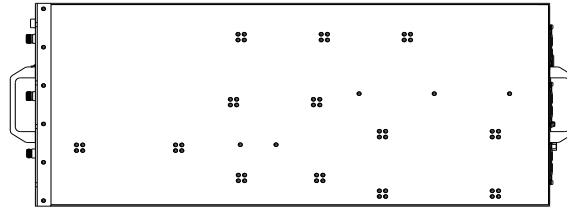


Unit: mm/(inch)
Rack Size: 21U
8KW System: 8U + 5U + 8U



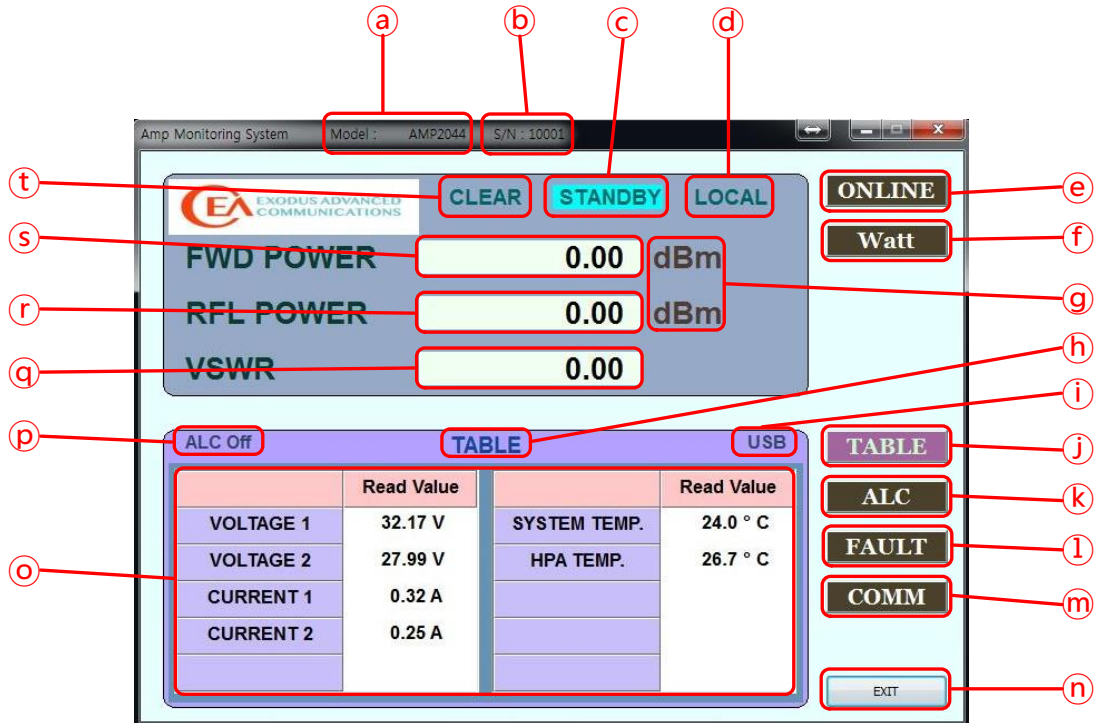
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4KW AMP OUTLINE DRAWING



*UNIT : mm / inch

CONTROLLER - PRIMARY (MAIN) WINDOW



- a Model: Connected model number.
- b S/N: Serial number of the connected model.
- c STANDBY/ONLINE: Display system STANDBY/ONLINE status.
- d LOCAL/REMOTE: Display system LOCAL/REMOTE status, REMOTE mode is optional.
- e ONLINE/STANDBY: System ONLINE/STANDBY 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.