



AMP2083P-5KW SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear design
- Instantaneous wide bandwidth
- Suitable for high power C-Band long 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	4.0 - 8.0 GHz	Pulse
Peak Output Power	5000 Watt Min	Into 50 Ω
Power Gain	67 dB Min	Pin = 0 dBm Nom for rated Pout
Power Gain Flatness	5.0 dB p-p Max	Constant input power
Pulse Characteristics	Width	
	Up to 100 μS	
	Duty Cycle	
	6 % Max	
	PRF	
	100 kHz Max	
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	180-260VAC, ±10 %, 50-60 Hz ±10 %	Single-Phase
Efficiency	>20 %	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

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Altitude Operating / Storage	2500 meter Min	
Shock	MIL-STD-810F, Method 516.5	Shocks: Proc. I, 11msec, 18 sawtooth pulses with peak value of 20 g.
Vibration	MIL-STD-810F, Method 514.5	Cat. 20, fig. 514.5C-1 tailored for installation within off-road wheeled vehicle. Test duration is 3 hours per axis.
Transportation	MIL-STD-810F, Method 514.5	Cat. 5. Test duration is 3 hours.

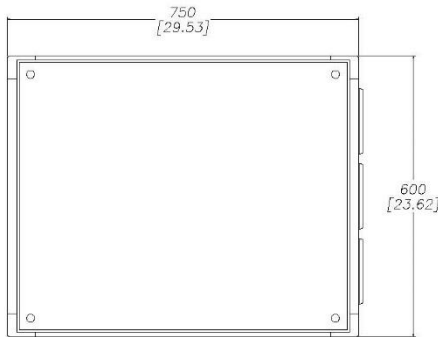


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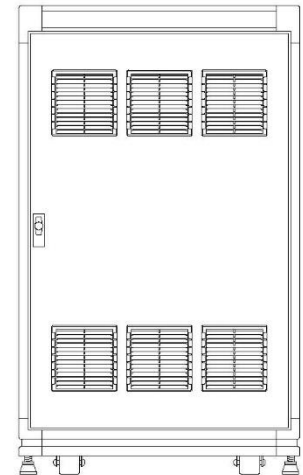
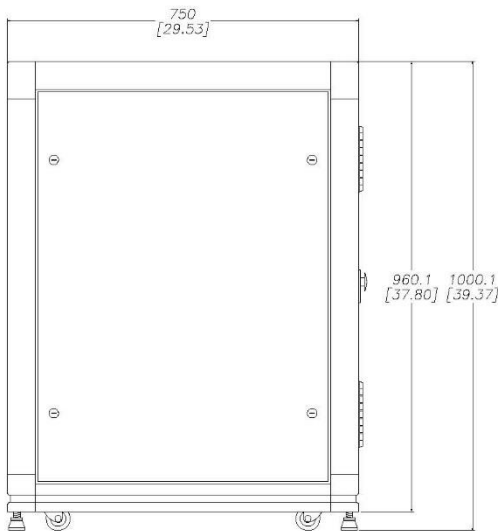
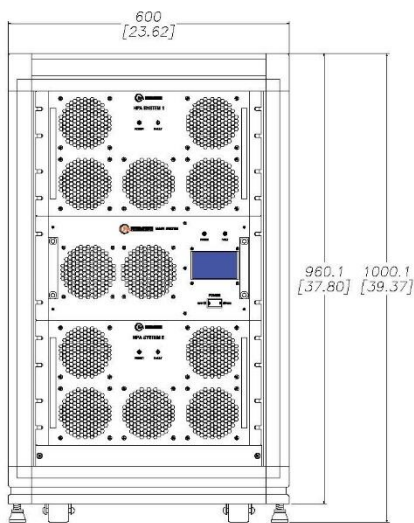
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	Rack mounted cabinet	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 SC Female	Front Panel Front Panel Rear Panel
AC Power Connector	MS3102A24-10P	Rear panel, or equivalent
GPIOB / Remote Connectors	3549-1002 / MS3102A16S-1S	Rear panel, or equivalent
Noise Quieting connector	TNC 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, USB RS232/RS422/485 GPIOB IEEE	Rear panel

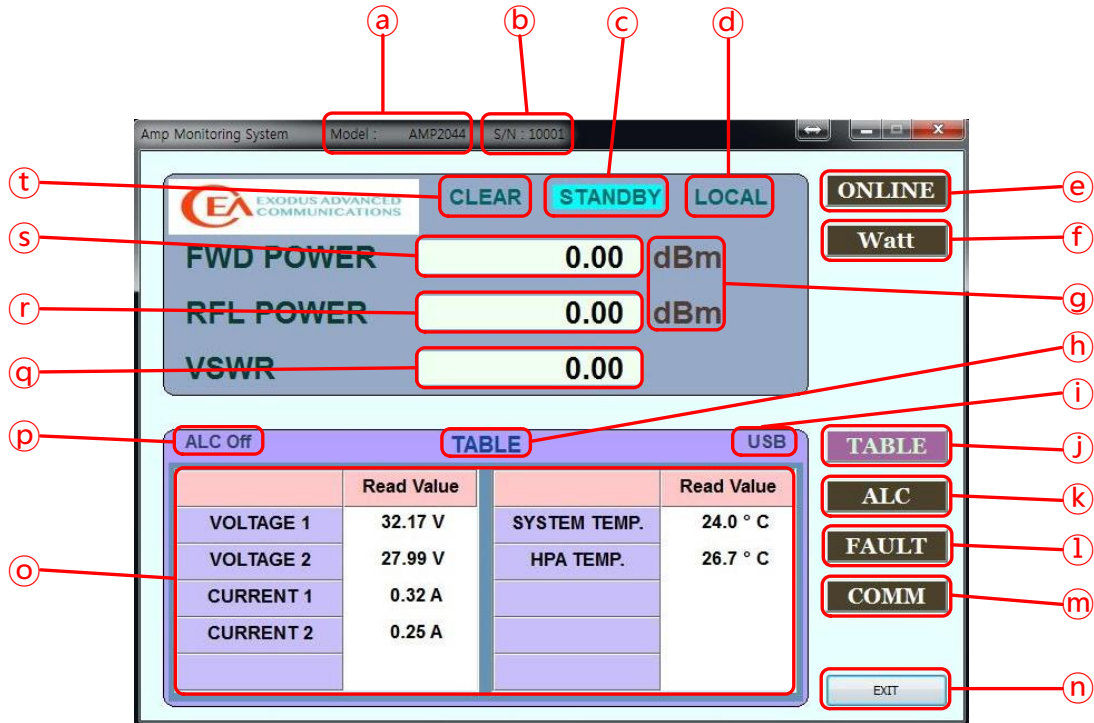
OUTLINE DRAWING



- * UNIT : mm / [inch]
- * Rack Size : 18U
- * System : 6U + 5U + 6U



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.