



AMP2131-2P SOLID STATE HIGH POWER AMPLIFIER



FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	1000 - 2000 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	Width	Duty Cycle	PRF	
	4 - 650 μ S	15 % 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	208 VAC, \pm 10 %, 50-60 Hz \pm 10 %			3-Phase
Efficiency	>10 %			At rated Pout
Max Input Power Protection	+3 dBm			Without damage for 1 min Nominal input for rated output is 0dBm
Load VSWR Protection	∞ : 1 @ rated Pout			Without damage for 10 Sec. System will shutdown when greater than 3:1 VSWR is detected

ENVIRONMENTAL CHARACTERISTICS

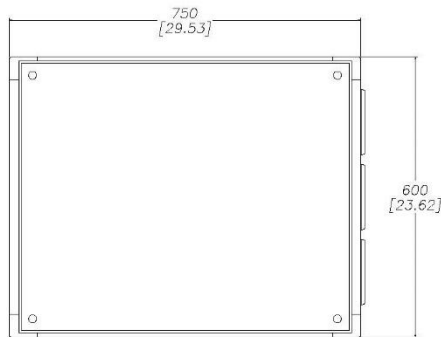
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 $^{\circ}$ C	
Storage Temperature	-40 to +85 $^{\circ}$ C	
Relative Humidity	5 to 95 %	Non-condensation
Altitude Operating / Storage	2500 meter Min	
Shock	MIL-STD-810F, Method 516.5	Shocks: Proc. I, 11msec, 18 sawtooth pulses with peak 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.

AMP2131-2P SOLID STATE HIGH POWER AMPLIFIER

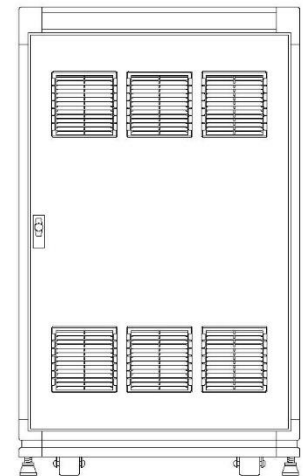
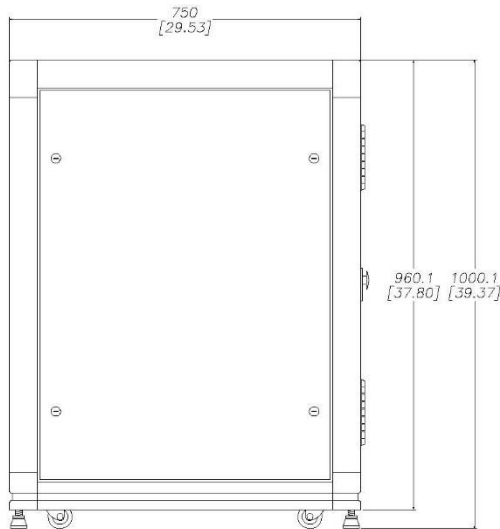
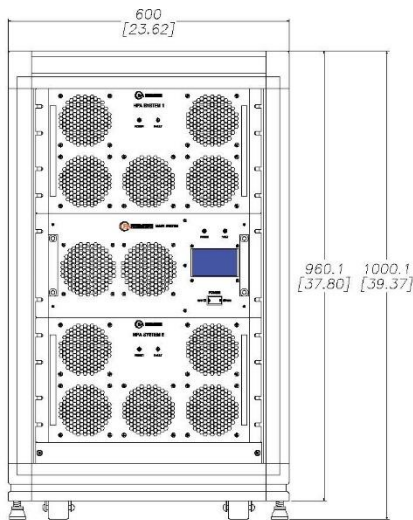
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	Rack mounted cabinet	Per outline drawing
Weight	-	
RF Connectors Input / Output	Type-N Female / SC female	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
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS232/RS422/485 Optional GPIOB IEEE	Rear panel

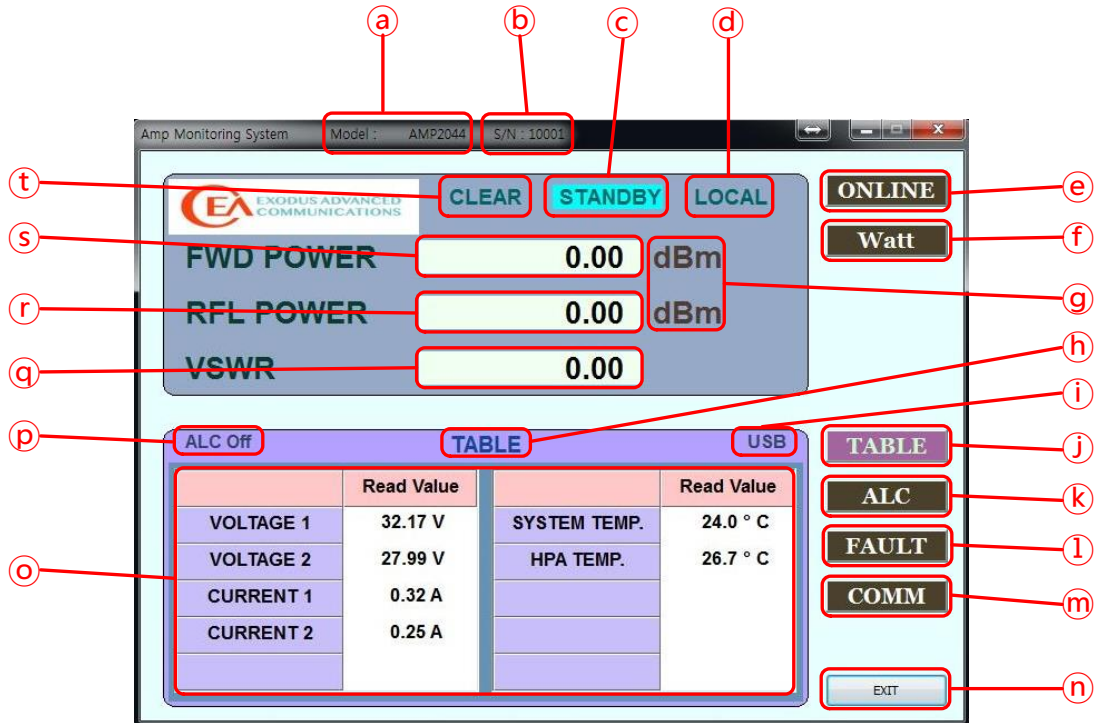
OUTLINE DRAWING



- * 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 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.